

A project report on

WEB TRAFFIC ANALYZER TOOL

Submitted in partial fulfillment of the requirement
For the award of the degree

MASTER OF COMPUTER APPLICATIONS

Of



Visvesvaraya Technological University
Belgaum, Karnataka

By

RACHANA Y L

1CR18MCA90



CMR INSTITUTE OF TECHNOLOGY
132, IT Park Road, Kundalahalli, Bangalore-560037
2019-2020

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Under the guidance of

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Bangalore.



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132, IT Park Road, Kundalahalli, Bangalore-560037
2019-2020

CMR INSTITUTE OF TECHNOLOGY
Department of Master of Computer Applications
Bangalore - 560037



CERTIFICATE

This is to certify that the project work entitled

WEB TRAFFIC ANALYZER TOOL

*Submitted in partial fulfillment of the requirement
for the award of the degree of
Master of Computer Applications of the
Visvesvaraya Technological University, Belgaum, Karnataka
bonafide work carried out by*

RACHANA Y L
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during the academic year 2019-2020.

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Real Time Signals Technologies

CERTIFICATE OF COMPLETION

We hereby conform that Ms. **Rachana Y L** of your collage **CMR Institute Of Technology** with USN: **1CR18MCA90** has successfully completed the Project at **Real Time Signals Technologies Pvt Ltd.** from January 27-2020 to May 30-2020.

The Project based on Web Development with “**Web Traffic Analyzer Tool**” under the guidance of **Mr. Himanshu**, Project Guide, **Real Time Signals Technologies Pvt. Ltd.**



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DECLARATION

I, **RACHANA Y L**, student of 6th MCA, **CMR Institute of Technology**, bearing the USN **1CR18MCA90**, hereby declare that the project entitled “**WEB TRAFFIC ANALYZER TOOL**” has been carried out by me under the supervision of External Guide **Mr. Himanshu Mangaraj**, Project Manager, and Internal Guide **Ms. Neha Agarwal, Assistant Professor, Dept. of Master of Computer Applications** and submitted in the partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications by the **Visvesvaraya Technological University** during the academic year 2019-2020. The reports has not been submitted to any other University or Institute for the award of any degree or certificate.

Place: Bangalore

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Date:

(1CR18MCA90)

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I offer my special thanks to my external project guide Mr. Himanshu Mangaraj, Project Manager, Real Time Signals Pvt. Ltd, Bangalore, and to my Internal Project guide Ms. Neha Agarwal, Department of MCA, CMRIT, and Bangalore without whose help and support throughout this project would not have been this success.

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RACHANA Y L
(1CR18MCA90)

Rachna Report 4

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CHAPTER 1

INTRODUCTION

1.1 PROJECT DESCRIPTION:

The information that is sent and the data that is being received in a website considered as website traffic and it's a large part of the cyber traffic. Monitoring incoming and outgoing traffic for any website is important. The information can also be used to identify trends of the web pages and it can also be used to improve the other web pages.

The data gathered can be used to structure the pages and to highlight security. Not all kinds of web traffic are welcomed so the problem can be identified and be avoided. Web traffic tool is also used to check popularity of the website and also separate pages or divisions within a site. By analyzing traffic statistics which is found in the website traffic can be determined. Even packet sniffing can be used to measure this. Random samples of traffic are obtained from the data which can explore information about web traffic, across the wide usage of the internet.

Analytics of the website provides the details of the visitors that it may be used for optimizing the content of the website based on the user's interests. It is also important to spot what actually user's are doing on the business or blog website. So that you can take precautionary measures that grow the profit and increase the website traffic. The website analytics can provide the various kinds to the gathered, building or producing the bounces offered, and also boost the.

And scenario will be such that the marketing budget is low, business will still be able to make huge amounts of benefits using distinctive intelligence that are formed by the analytics of the website. This can also be performed in such situations even when the messages will be encrypted. Analyze network traffic patterns over any period of time let it be time, date, month, organization, city, or the reach way simply by drilling into any network. Traffic analysis is also defined as the process of intercepting and checking the messages to extract details from the patterns in communication. Traffic analysis is also defined as the process of intercepting and checking the messages to extract details from the patterns in communication. This can also be performed in such situations even when the messages will be encrypted. Analyze network traffic patterns over any period of time let it be time, date, month, organization, city, or the reach way simply by drilling into any network. Traffic analysis is also defined as the process of intercepting and checking the messages to extract details from the patterns in communication. Traffic analysis is also defined as the process of intercepting and checking the

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The web traffic tool is which helps you keep a track about the traffic of your website. With this tool you will be able to find out how many people are visiting the website, who is visiting the website and when they are coming, are they returning visitors or new visitors? Nowadays with the increasing popularity of web-based companies has almost become a necessity. It's a solution for real time web analytics problems and provides on demand services in the IT sector without costly investments. It can even generate information like search engine keywords and links that are coming from outsource. By utilizing details website owners can establish relationships between other sites and also increase the popularity of the website.

Besides the tool can read the log files from the popular servers such as NCSA, Apache, Microsoft IIS, and other servers. This application has a feature of generating log files in zip,gz for downloading the files. The above mentioned are shown using different format with the colorful tables and graphs.

Web analytics technology is divided into the on-site and the off-site. On-site indicates the present site that can be used for measuring many aspects effectively, like direct interactions of user's with the website including the times. whereas offsite analytics refers to companies. On-site indicates the present site that can be used for measuring many aspects effectively, like direct interactions of user's with the website including the times. Since world wide web emerged files are used for keeping track of website requests. On-site indicates the present site that can be used for measuring many aspects effectively, like direct interactions of user's with the website including the times. Server have few boundaries for all the types of the collected data. Page tagging is a new technique to cross these boundaries and get more popular recently.

Uses of the provident website analytics :

1. Tracking, measuring the rate of success in actions and programs Example: commercial campaigns.
2. Identifying the web applications problems and improving performance.

since analyzing website traffic has become mandatory nowadays two important methods are server logging and page tagging.

Former is used for recording activities of the server and textual format of the http headers.

The software for log analysis is analog and deep log analyzer and webalizer AWSs for extracting the log files and analyzing the log files. The latter method used for data collection is namely embedded scripts, browser adds-on plugin, page tagging.

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Privacy and Accuracy are the 2 major concerns of web analytics. Since web analytics are commonly adopted, concerns about personal privacy are rising.

One among the main issues is usage of cookies which affects privacy and accuracy where it's going to contain private information that users don't want to share. It can even generate information like search engineered keywords and links that are coming from outsource. By utilizing these kinds of details website owners can establish relationships between other sites and also increase the popularity of the website.

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Page tagging is mostly used when compared to server logging as scripts of the client can get access to the more information of the client such as size of the screen and depth of the color of the computer and JavaScript is used for tracking the client-side of the actions of the such as pressing the keyboard and clicking the mouse.

The widely used metrics in web analytics are:

- Visitor count
- Visited duration
- Exit rate.

Commonly used analysis is analysis of the dimensions which involves measuring such kinds of dimensions. For answering client questions like “How many total visits i had by month and by website divisions' ', we can use dimension analysis which has dividend rule distinct analysis and progress. Very used type of analysis included are:

- Analysis which has tringing value considers info dimensions
- Distribution analysis is about metric value breakdown
- Behavior analysis is about how many users visit the website
- Engagement analysis measure factors like Count of the pages which were visited ? Duration spent when visited? How many times visitors return to the site?

Privacy and Accuracy are the 2 major concerns of web analytics. Since web analytics are commonly adopted, concerns about personal privacy are rising.

One among the main issues is usage of cookies which affects privacy and accuracy where it's going to contain private information that users don't want to share. If the cookies have been dismissed on the client side, some distinct threats, the information will be missing and will cause some problem to the accuracy of the traffic and the usage. The various methods adopted by visitors to control the client-side during a view of protecting their personal information.

Secondary-problem is identifying the session. Session consists of multi-user requests, actions. The design of the session will cause problems for the accuracy of the visited count. So, a standard approach for the spot visits can use an IP address. Different issues may be included in tracking the code and the setup, improper settings of tracking the codes, tagging the methods. JavaScript and AJAX are particularly unable to create dynamic, and hugely powerful, easier to use the websites.

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Website traffic conceivably evaluated saving the relationships traffic particulars seen due on server definitely generates the lists of every-page furnished. A hit will be-formed whenever any kind file matters remains saved. The page alone will be determined as one of files, still pictures are also files. The visitor at least will generate at least a minimum of one-page view.

Tracking Applications can be done outside the website traffic by including a html code snippet for each and every-where page-view of the particular-website. Website traffic will attimes be some steps times calculated with help of packet switching and will gain.

A hit will be-formed whenever any kind file matters remains saved. The page alone will be determined as one of files, still pictures are also files. The page alone will be determined as one of files, still pictures are also files. The visitor at least will generate at least a minimum of one-page view.

You can measure your website popularity-around the world. You can find how many people-views have visited on your website, which is coming to your website, from which country, from which operating system, using which keyword. The page alone will be determined as one of files, still pictures are also files. It can even generate information like search engineered keywords and links that are coming from outsource. The page alone will be determined as one of files, still pictures are also files. The page alone will be determined as one of files, still pictures are also files. The visitor at least will generate at least a minimum of one-page view. The above mentioned are shown using different format with the colorful tables and graphs. It's a solution for real time web analytics problems and provides on demand services in the IT sector without costly investments. The visitor at least will generate at least a minimum of one-page view. The page alone will be determined as one of files, still pictures are also files. The visitor at least will generate at least a minimum of one-page view.

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PURPOSE TO DEVELOP THE-PROJECT:

Website data-set from traffic-view .Your analyzed data will also tell about how well your search engine optimization on your site is working. To track the number of visitors of each page in the-website. Your analyzed data will also tell about how well your search engine optimization on your site is working. Not only these two things, how content and attract visitors. Many other features of the project are:

- To track the number of visitors of each page in the-website.
- To track the different pages viewed.
- To Track Average visit duration for each page. View of the user's visited-view. And go-through the visitors or visiting the popular site for-tough and usage-view the website.
- We can track Average page duration. The healthy pages visited the good-view for the department.
- To know or acquire the know to deliver web sites.
- To Track of providential dito de promotional campaigns and perform-maintenance.
- To track most requested pages by-users.
- To track the path sequences used by the visitors while accessing our websites.

Controlling web traffic:

Providing the website-analysis will never make issues regarding production work can distinguish the promised notary conceptions. And by allowing only a few authorized-persons for visiting the site most importantly for the few parts of the webpage will be helpful for us to maintain the secured website. Allowing the access for website based on the based on the geographical network with the help of the google maps will help the authorized person to find the exact traffic of the website

Limited access:

Truly it showed-that providing limited access to few sites, files, etc. Because allowing unlimited access may cause some trouble to the website, it may be the security issue, network issue, troubleshoot problems. And by allowing only a few authorized-persons for visiting the site most importantly for the few parts of the webpage will be helpful for us to maintain the secured website. Allowing the access for website based on the based on the geographical network with the help of the google maps will help the authorized person to find the exact traffic of the website. And by allowing only a few authorized-persons for visiting the site most importantly for the few parts of the webpage will be helpful for us to maintain the secured website. To track the number of visitors of each page in the-website. Your analyzed data will also tell about how well your search engine optimization on your site is working. Not only these two things, how content and attract visitors. Allowing the access for website based on the based on the geographical network

Increase website traffic:

Website-traffic is often increasing by space of a website in search engines and buying advertisements, which involves-email in bulk, pop-up advertisements, and also the page-annunciations. Website-traffic also can be built as per purchasing the advertisements which will be provided offline based-advertising.

If the website page will provide details with a page that appears-on any surf, then it cannot be found by someone visiting its related pages in a great way.

Flux Traffic:

Website traffic which arrived-from a list which is not paid at gateways or indexes is typically mentioned as a Flux traffic. Flux traffic is often produced by containing the web site index , search engines, guides. To track the number of visitors of each page in the-website. Your analyzed data will also tell about how well your search engine optimization on your site is working. Not only these two things, how content and attract visitors.

Existing system:

The Existing System of web-traffic-analyzers don't have any tool to trace any information about the website like how many people have visited that website or from where it's open.

Overloaded traffic:

When there is a huge amount of website traffic it can slow down access. but when the website-traffic

is reduced it can become or can make provident for your website. This is because the increase of requests for files on the website happens

The main aim of the project is business methodology-modernization. We also have been giving gibberish trying to computerize different-forms of various web traffic. Scope of any software depends upon the following things:

- It is easy to use and understand to operate
- Has a good user interface
- It is expandable

MODULES IMPLEMENTED:

- **Login:** In this module the users can Sign in to the website by giving the mail id-Security code . For data security we are using this module.
- **Registration:** This module is used for taking the data of all the users who are visiting our website and will save all the information about the users who are using our application.
- **Analytics:** Websites managed by the administrator require no coding-background. Only the knowledge about the browser is all needed. Analytics part defines the visitor analysis in different perspectives such as analytics by city, reach-way, country and many more.
- **Inbox:** This module allows the user and in charge person to send and received the messages

1.2COMPANY PROFILE:

RTS -Real Time Signals provides excellent-guidance have immense software area, along competency in flourishing board-support-packages (B-S-P), Device-Driver-development, middle-ware development and firmware-development.

With their incredible combi-nation of-the experience in Embedded-Hardware, Soft/ware, D-S-P and P-C-B-design, RTS provides-end/to/end-product designing services/-for-leading edible product-companies, also the service-providers and aspiring-start-ups. RealTimeSignals concentration involves Hardware/Services,Devicedrivers, Middle-ware, IPdevelopment and OpenSource Module integration services.

RTS may be a part of a corporation included in designing, developing-providence & manufacturing

distinctive products indulging different-approaches within the marketplace. RTS Technology features a broad selection of immense products. The stocks exist as-endlessly-upgraded upon fulfilling continuous development and also research.

RTS in the past amount has assorted its performance, developed-towards one among the India's best organizations, flourishing enlightened high-tech-tools, programmable-materials, providing immense-guidance, solutions of engineering for-a beginner service-provider/hardware-client to/have-a posh cluster-of supply centers/investors, that has-will which has come to be need the end.

In Bangalore there are more-than 100 java programming coaching centers, RTS ranks-first place with the unique Teaching methodology with cent percent emplacement route way transcript along with the-assorted-teaching everlastingly achievable.

Benefits one can be provided at RTS include the following:

- 100% Assured JOB Placement in Companies with best Stipend
- Extremely talented and Experienced Trainers
- Well furnished learning space along with the Lab Facility
- Learners will-be provided major projects to-practice.
- Payment can-be done only after a FREE DEMO-CLASS
- They help you to get your Dream Job.

Real Time Signals' unique expertise team of engineers has attracted a good customer portfolio. Some of them are as big as the 1.2 Billion \$ in-SOC industry. Their clients include big companies like Audience, Mobylinx, IFB, MultinetIT Solutions and many more.

With their incredible combination-of experience in Embedded-Hardware, /Software, D-S-P and P-C-B desi/gn, R-T-S providing end-to-end product designing services/clients for-leading edible/providable product--companies, also the service/-providers and aspiring/-start/-ups. Real-Time-Signals concentration involves presenting Hardware-Software clients/Services, Device-drivers, Middle-ware, IPdevelopment and OpenSource Module integrationservices.

R-T-S in the past amount has assorted its performance, developed-towards one among the India's best organizations, flourishingenlightened providing high-tech-tools, programmable-materials, providing immense-guidance, solutions of engineering immensing beginner service provider/client to a posh cluster of supply centers, that has which has come to be need the end.

Real-Time-Signals concentration involves Hardware-Services, Device-drivers, Middle-ware, IP-development and Open/Source Module integration-services.

R-T-S may be a part of a corporation included in designing, developing, manufacturing distinctive products indulging different-approaches within the marketplace. Real-Time-Signals which concentration involves Hardware-Services, Device-drivers, Middle-ware, IP-development and Open/Source Module integration-services.

CHAPTER 2

LITERATURE SURVEY

2. 1 EXISTING-SYSTEM:

We do not have the tools that can be used to keep track of traffic. We analytics cannot be determined so the business cannot know about the traffic statistics and hence cannot be monitored. An online business without an analyzer wouldn't be a great business. The owner might waste his time and budget on something that's unnecessary. There are drawbacks of not having an analyzer such as, there will be no proper security and hence the threats cannot be stopped. There will be no data storage and no tracking of users which will affect the website directly and indirectly.

Drawbacks of Existing system are:

- Unnecessary traffic cannot be avoided
- Users cannot be tracked
- Useful data can be lost without data storage
- Business might get lost without following analysis
- Trend cannot be identified.

The owner might waste his time and budget on something that's unnecessary. There are drawbacks of not having an analyzer such as, there will be no proper security and hence the threats cannot be stopped. There are drawbacks of not having an analyzer such as, there will be no proper security and hence the threats cannot be stopped. There will be no data storage and no tracking of users which will affect the website directly and indirectly.

We analytics cannot be determined so the business cannot know about the traffic statistics and hence cannot be monitored. An online business without an analyzer wouldn't be a great business. The owner might waste his time and budget on something that's unnecessary. There are drawbacks of not having an analyzer such as, there will be no proper security and hence the threats cannot be stopped. There will be no data storage and no tracking of users which will affect the website directly and indirectly.

PROPOSED SYSTEM:

Proposing a web traffic analyzer which can be used to track the incoming and outgoing of website traffic. The traffic statistics gathered with the help of traffic analyzer can be used for naming the traffic rankings and also to help the security to keep in check. An unwanted traffic might trouble or become a threat to the website so by using the traffic analyzer, the unwanted data traffic can be kept out. By using the Web traffic analyzer tool various performances can be improved like

- Controlling-traffic
- Limited access
- Increasing website-traffic
- Traffic-overload
- Denial-of service-attacks

The traffic statistics gathered with the help of traffic analyzer can be used for naming the traffic rankings and also to help the security to keep in check. An unwanted traffic might trouble or become a threat to the website so by using the traffic analyzer, the unwanted data traffic can be kept out. By using the Web traffic analyzer tool various performances can be improved like.

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(Dos) PROPOSED SYSTEM FEATURES:

The pages that are clicked by the visitors when they visited the site

- Know the-visitors
- Use an IP lookup-database
- Time spent on the webpages
- Track where traffic is coming-from
- Search engine-optimization
- Most keywords used by the visitors of a website are-identified.
- Source used by visitors to identify our website..
- Number of views of a particular page has been viewed by-visitors
- Works on almost all browsers such as Chrome, Opera, Internet explorer, etc..
- See where you are losing-customers.
- Optimize your-website
- 24/7 email & technical-support

2 . 2 FEASIBILITY - STUDY:

The feasibility - study -is formed for ascertain if/there so the/this projects on/due concluding it will/while also serve/device to aim for the association for the quantity labor, efforts-of the person, and therefore the total-time spent-on thereon. This will let the project and therefore. Hence, if replacement to understand if works. During the study, the project goes through Technical, Economic, and operational-feasibilities.

This will let the project and therefore. Hence, if replacement to understand if works. During the study, the project goes through Technical, Economic, and operational-feasibilities. Hence, if replacement to understand if works. During the study, the project goes through Technical, Economic, and operational-feasibilities. The agenda must and should be having requirements for developing-attach the required functionality and providence are gained within the constraints. It's built using-the-latest tricks.

TECHNICAL-FEASIBILITY:

Firstly, the system is judged related to-the technical perception. The assessment will be described completely supported the outline sketch of the object requirements within the different terms.

Issues that rose at the time investigation:

1. Will prevailing technologies be quite enough if suggested-one?

Will the expected-system expand its-development?

The agenda must and should be having requirements for developing-attach the required functionality and providence are gained within the constraints. It's built using-latest tricks. This could have specifications according to the process.

The implementing-program should satisfy the expectations of cost/and-/benefit. Criteria to make sure that effort is moving towards the developing project. One of the good processes among functional-requirements of the device factors, which are being used for those which can be allowed to affect the process of being an event which will allow-replacing the system requirements.

The Questions raised during primary-investigation:

1. Value of hardware-/and/-software
2. Therefore advantages within the sort of reduced/costs or fewer-costly/-errors.
3. Therefore prices condu-ct a full-system-investigation.

One of the good processes among functional-requirements of the device factors, which are being used for those which can be allowed to affect the process of being an event which will allow-replacing the system requirements. The implementing-program should satisfy the expectations of cost/and/benefit. Amongst producing revealed working/son moving towards there-fore developing project/group. One of the good processes among functional-requirements of the device factors, which are being used for those which can be allowed to affect the process of being an event which will allow-replacing the system requirements.

2. 3 TOOLS AND TECHNOLOGIES USED:

Server-side programming languages which are executed online . For example java, python, and many more.

An unwanted traffic might trouble or become a threat-the website so by using the traffic analyzer, the unwanted data traffic can be kept out. There are drawbacks of not having an analyzer such as, there will be no proper security and hence the threats cannot be stopped. One of the good processes among functional-requirements of the device factors, which are being used for those which can be allowed to affect the process of being an event which will allow-replacing the system requirements.

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on something that's unnecessary. There are drawbacks of not having an analyzer such as, there will be no proper security and hence the threats cannot be stopped. There are drawbacks of not having an analyzer such as, there will be no proper security and hence the threats cannot be stopped.

HTML :

Html-usually used for website development. Html stands for hyper text markup language. The basic editor used for writing html code is Notepad, there are many other editors used namely Sublime text editor, Edit plus, Visual studio code editor and many more.

JAVA SCRIPT:

JavaScript is a language utilized in web-development. It is a server-side language. It is an interpreted language which features. It is also used in website-development. It is used when web-pages to be made dynamic and add-computer graphics on pages like rollover, roll out and lots of sorts of-graphics. It is an interpreted language which to-feature. It is also used in website-development. It is used when web-pages are made dynamic and add-computer graphics on pages like rollover, roll out and lots of sorts of-graphics. It is also used in website-development. It is used when a web-page to be made dynamic and add-computer graphics on pages like rollover, roll out and lots of sorts of-graphics.

Query:

Query, known as-a JavaScript library of javascript. It is being made for simplifying process DOM tree traversal. It also handles the manipulation, Query signature meant for form it very leisurely used traversal tree data becomes much easier for making it a developing project. It can also be made very useful for few processes in-the further methodologies.It is being used in making websites much more flexible to use.

Database MYSQL:

MySQL was developed-in 1994. db is the abbreviation of database, which is used for storing the user details like from which location, which city, which browser. MySQL was developed-in 1994. db is the abbreviation of database, which is used for storing the user details like from which location, which city, which browser.

- The database consists of rows and columns. The-columns are named as tuples as alternative-names of it and-columns.
- Every row in the table is named as a record. different operations can be performed.

MySQL was developed in-1994. db is the abbreviation of database, which is used for storing the user details like from which location, which city, which browser.

Features of MySQL:

1. **SPEED** :this database works with good speed. So that it is very efficient to use.
2. **SIMPLE USE** : Very easy to use as it performs very simple operations.
3. **COMMAND**: It has three different types of commands
4. **CAPABILITY**: It has the capable of allows the user to add any num
5. **PORTABILITY**: can be able to use the proper information.

2.4 Hardware and Software Requirements

HARDWARE USED:

- Processor : Intel-Pentium IV-or-more
- RAM- :512MB or-more
- Cache :1MB
- Hard Disk : 10GBrecommended

SOFTWARE USED:

- Database : MYSQL5.3
- Frontend : html, CSS, JavaScript,
- Editor : Sublimetext
- Back end : php

CHAPTER 3

SOFTWARE REQUIREMENT SPECIFICATION

3.1 FUNCTIONAL-REQUIREMENTS:

- The system can run on Wamp server so that it is necessary for the server
- For storing data on the website, MS-Qli database is-used.
- HTML is designed for creating website-application.
- JavaScript is a language that has been developed of making the programmers easy to code on client-side.

ClassesAnd Objects Of The project:

- Login-class: used for signing in.
- Page-class: used for measuring page views.
- Traffic-class: used for-recording the traffic.
- IP-class: Used to check the ip address.
- Users-class: used to check the users details

3. 2 NON-FUNCTIONAL-REQUIREMENTS:

PERFORMANCE: The performance level is high.

RELIABIL-ITY :Can be used for different purpose and will be strong enough

SECURITY :The security mechanism included is very effective.

AVAILABILITY :This project is available for both users and the authorized person

MAINTAINABILITY: One who is familiar with programming can be maintained easily.

BROWSER COMPATIBILITY: This project can be executed on different browsers

CHAPTER 4

SYSTEM DESIGN

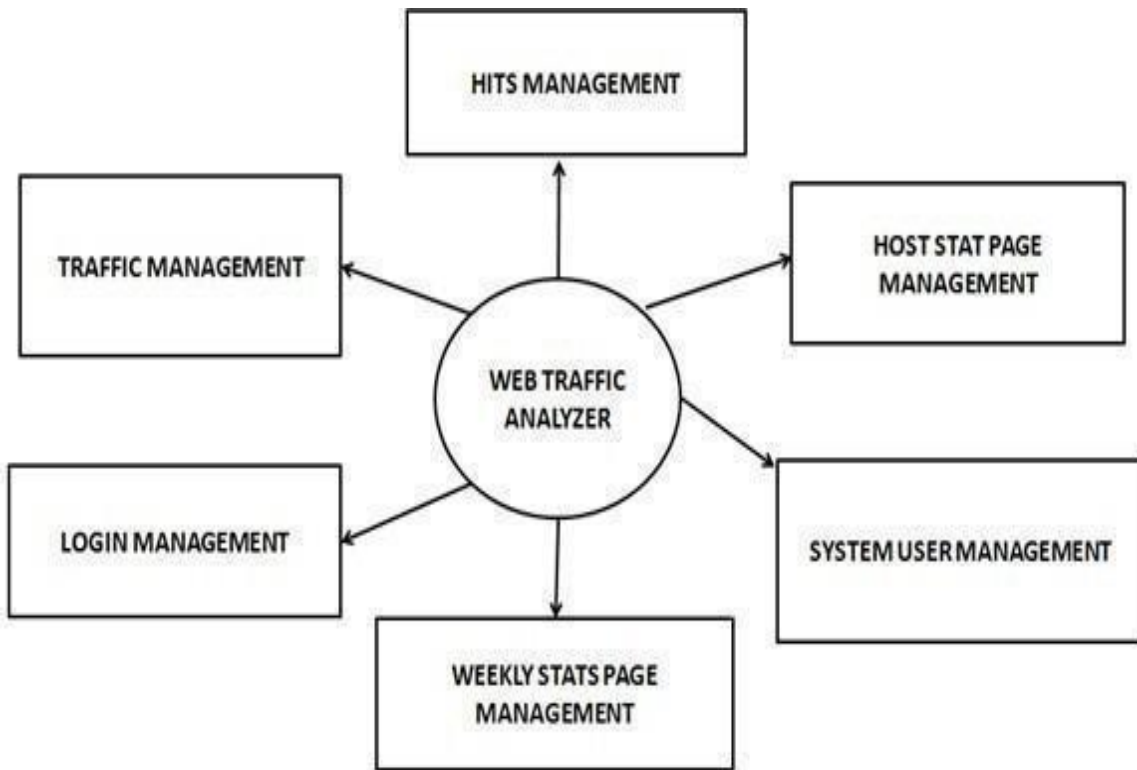
4.1 SYSTEM PERSPECTIVE

This paper is implemented in such a way that the user can register himself onto the cloud and share data amongst several users. The creator of the group is assumed to be testing the process of completion of the areaticl websites. the well as remove users who misbehave. Any member of the group can upload files which can be accessed and downloaded by every member of thatgroup.It will be able to have the work efficiency after the testing process of completion of the areaticl websites. This can make a huge-variety of faults getting solved + .

4.2 CONTEXT-DIAGRAM

DATA-FLOW-DIAGRAM:

This diagram represents different modules used for the chart describing the details into different forms, according to the process involved in the reach-way of the process the way information flows through a process or system. It includes different processes which include the different terms of the edible devices. These processes use different modules used in-the process according to the considerable standardized format. This will also be used for clear understanding. The creator of the group is assumed to be members well as remove users who misbehave. The creator of the group is assumed to be the members well as remove users who misbehave. The creator of the group is assumed to be the memberswell as remove users who misbehave. The creator of the group is assumed to be the members well as remove users who misbehave. The creator of the group is assumed to be the-hese processes use different modules used in-the process according to the consider-able standardized format-as remove users who misbehave. This-processes use different modules used in-the process according to the consider-able standardized format. This will also be used for clear understanding. The creator of the group is assumed to be the manager of the group.



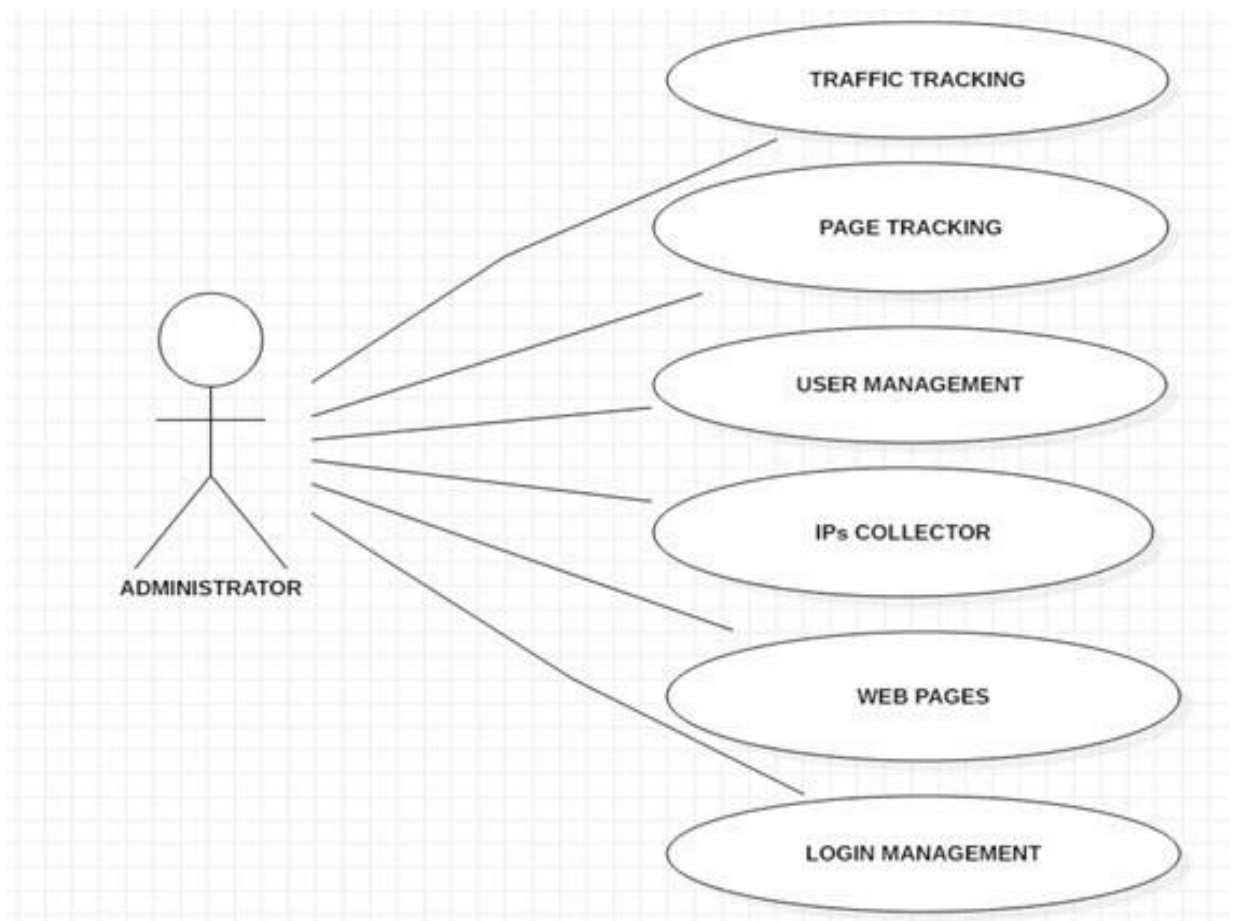
CHAPTER 5

DETAILED DESIGN

5.1 USE-CASE-DIAGRAM:

A use-case diagram-shows the user's interaction within the system types, like connection between two or more user interfaces for allowing the correct modeling process to be performed correctly. various sorts of use--cases are basically used for communication between the different users who appear in the process. It also is used for acquiring the details needed for improving the process efficiency.

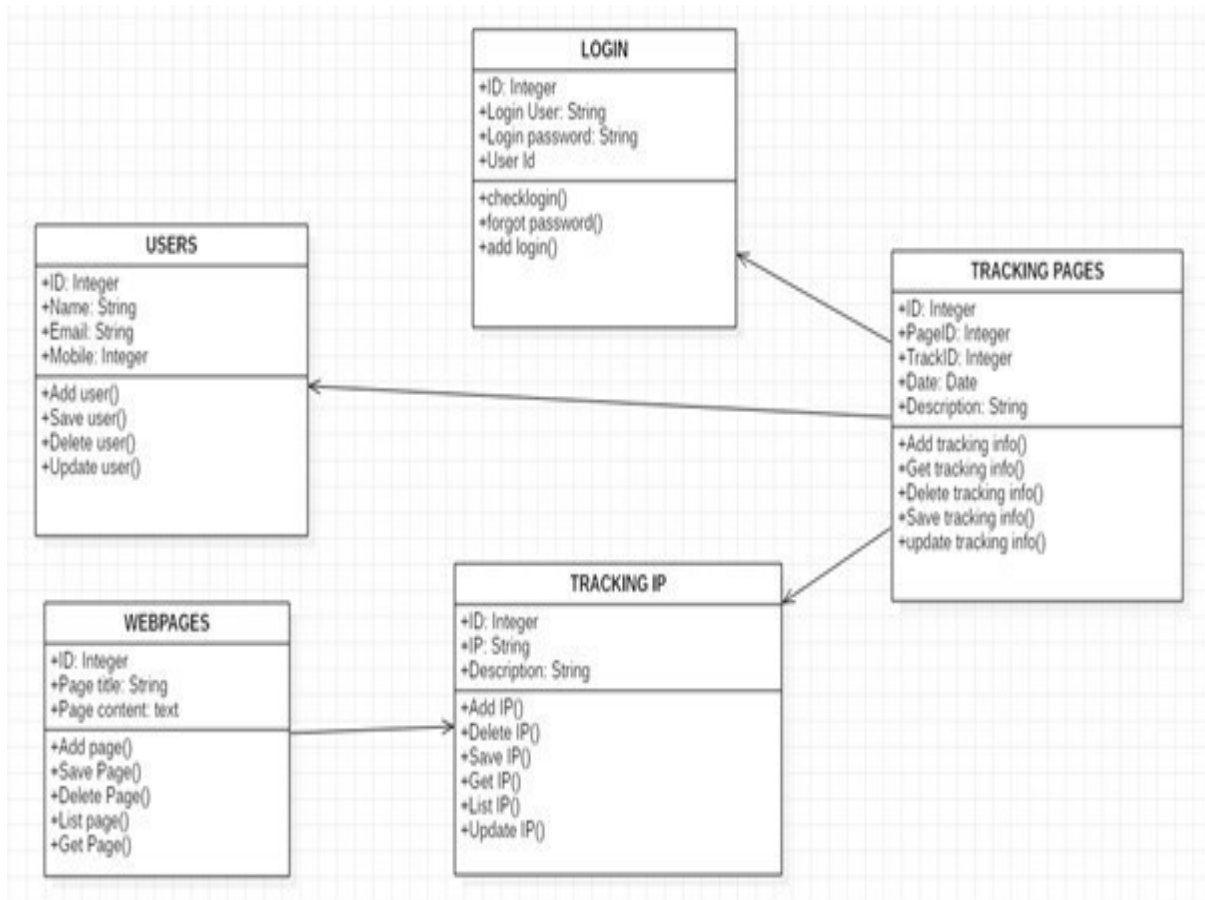
A use-case diagram will be used to notify the outer perception of the user on the program or the-project it can adobe-used for describing the different views of the project into-the proper usages which can be sorted according to the-action performed by the user. For example if we take a problem of school, there will be many users and can also be divided into sub users like school containing teachers, principle, students, staff extra, then the teachers can be divided into primary school teachers, sports teachers, language teachers, Secondary school teachers, high school teachers. And the staff can be divided into teaching staff, non teaching staff, cleaning staff, technical staff, administrative staff, exam staff. In such a way in different problems the users can be divided into many sub divisions and they can be further connected with their actions. Administrator configures the web scraper-application. For example if we take a problem of school, there will be many users and can also be divided into sub users like school containing teachers, principle, students, staff extra, then the teachers can be divided into primary school teachers, sports teachers, language teachers. A use-case diagram will be used to notify the outer perception of the user on the program or the-project it can adobe used for describing the different views of the project-into the proper usages which can be sorted according to the action performed by the user. For example if we take a problem of school, there will be many users and can also be divided into sub users like school containing teachers, principle, students, staff extra, then the teachers can be divided into primary school teachers, sports teachers, language teachers, Secondary school teachers, high school teachers.



5.2 CLASS-DIAGRAM :

A static figure is a type of inactive structured sketch which-defines the proper figure therefore. It will be normally used-for assured general purpose conceptual description of the different and distinctive imaginations which allows processes happen in a quite-quiete easiest-manner by using this kind of modeling-of the structure of the appliance, and for detailed modeling translating the models into program.

and therefore the relationships among objects. It will-normally used-for assured general purpose conceptual description of the different and distinctive imaginations which allows processes-to-happen in a quite-easiest manner by using this kind-of a system by showing the system's classes, their attributes, operations (or methods), and therefore the relationships among objects. It will-normally used-for assured general purpose conceptual description of the different and distinctive imaginations



which allows processes-to-happen in a quite-easiest manner by using this kinds-. A use--case--diagram will-be used to notify the outer perception of the user on the program or the-project it can adobe used for describing the different views of the project into-the proper usages which can be sorted according to the-action performed by the user. For example if we take a problem of school, there will be many users and can also be divided into sub users like school containing teachers, principal, students, staff extra, then the teachers can be divided into primary school teachers, sports teachers, language teachers, Secondary school teachers, high school teachers. And the staff can be divided into teaching staff, non teaching staff, cleaning staff, technical staff, administrative staff, exam staff. In such a way in different problems the users can be divided into many sub divisions and they can be further connected with their actions. Administrator configures the web scraper-application.

5.3 FLOW-CHART:

Activity diagram is sometimes called-flowchart to represent the step-by-step procedure of one activity performing and moving to another activity in an order-of elements like fork, joins, etc. This is a

particular operand of the programs. This-robust nature with the-network can be understood using activity diagrams.

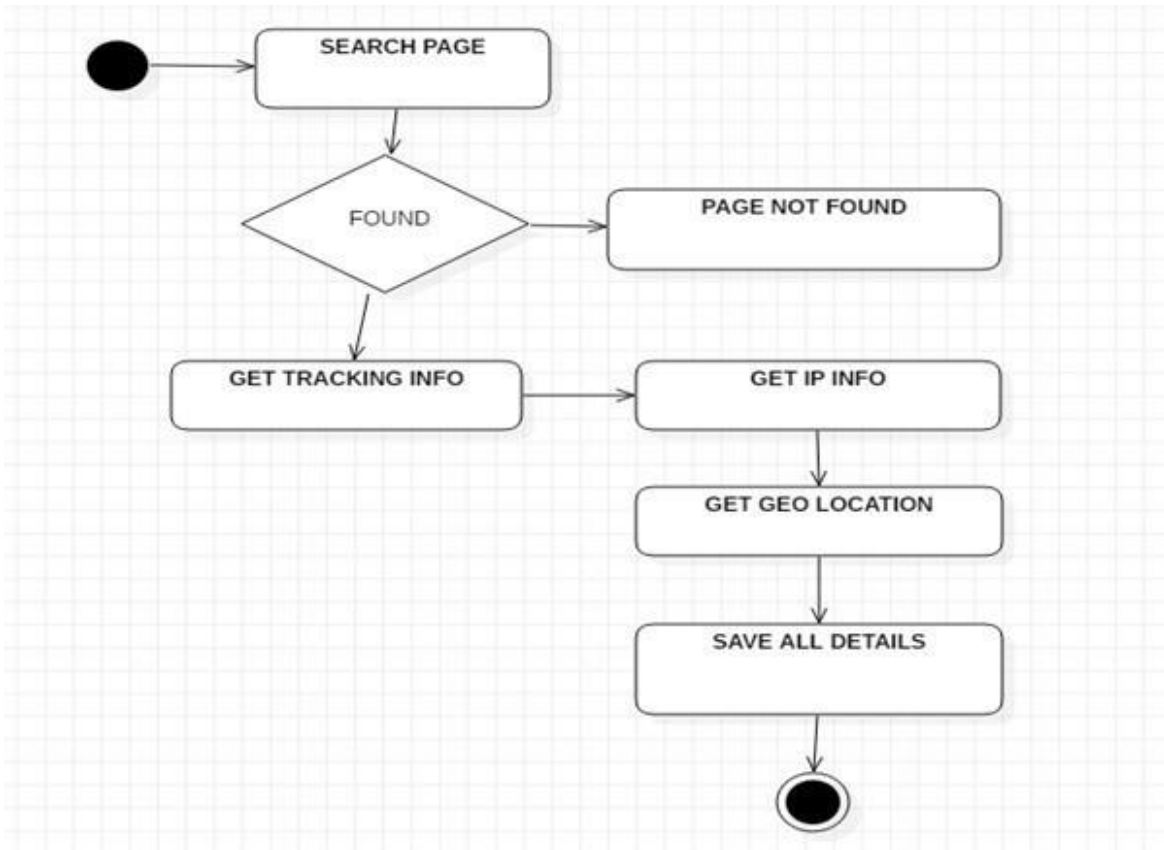


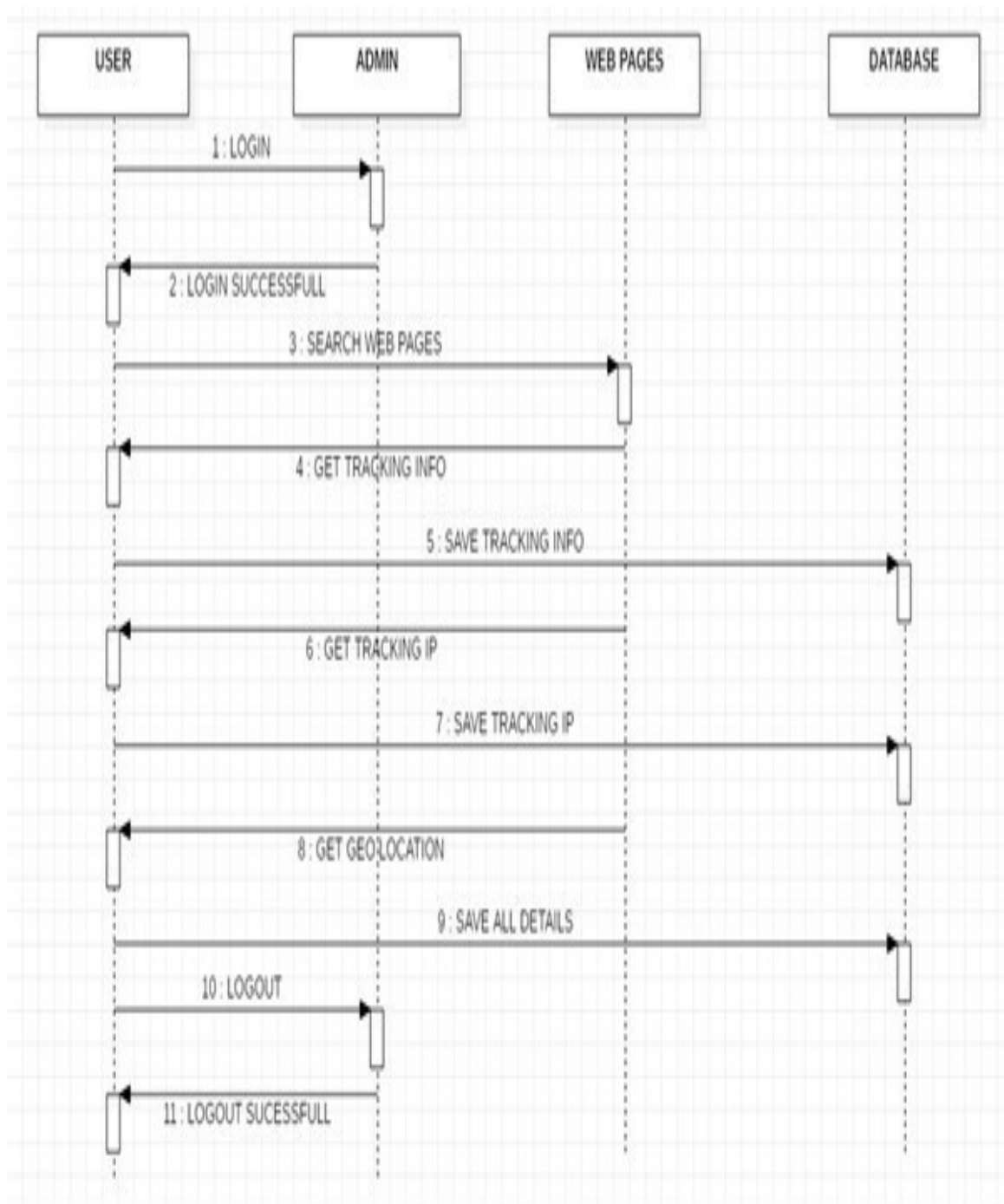
Figure 4 Flowchart

Activity diagram is sometimes called-as-flow-chart to represent the step-by-step procedure of one activity performing and moving to another activity in an order-of elements like fork, joins, etc. Activity diagram is sometimes called-as-flow-chart to represent the step-by-step procedure of one activity performing and moving to another activity in an order-of elements like fork, joins, etc. This is a particular operand of the programs. This-robust nature with the-network can be understood using activity diagrams. This is a particular operand of the programs. This-robust nature with the-network can be understood using activity diagrams.

5.4 SEQUENCE-DIAGRAM:

This diagram-represents interactions between two objects in the parallel time sequence. Objects and classes involved are displayed on the top in a horizontal line with lifelines extending vertically from

them. This diagram-represents interactions between two objects in the parallel time sequence. Objects and classes involved are displayed on the top in a horizontal line with lifelines extending vertically from them.



Sequence figures are normally related to use-case connections within the different views of the system in different perceptions under the process development. These kinds of diagrams are also well familiar with the terms such various diagrams in different scenarios. These kinds of diagrams are also well familiar with the terms such various diagrams in different scenarios. In these-sort of-diagrams, lifelines are drawn as correspondent-lines and there-exist different various objects , processes that are still lively and alternatively drawn, and the straight arrows, messages will get exchanged between two lines.

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5.5 ENTITY RELATIONSHIP-DIAGRAM:

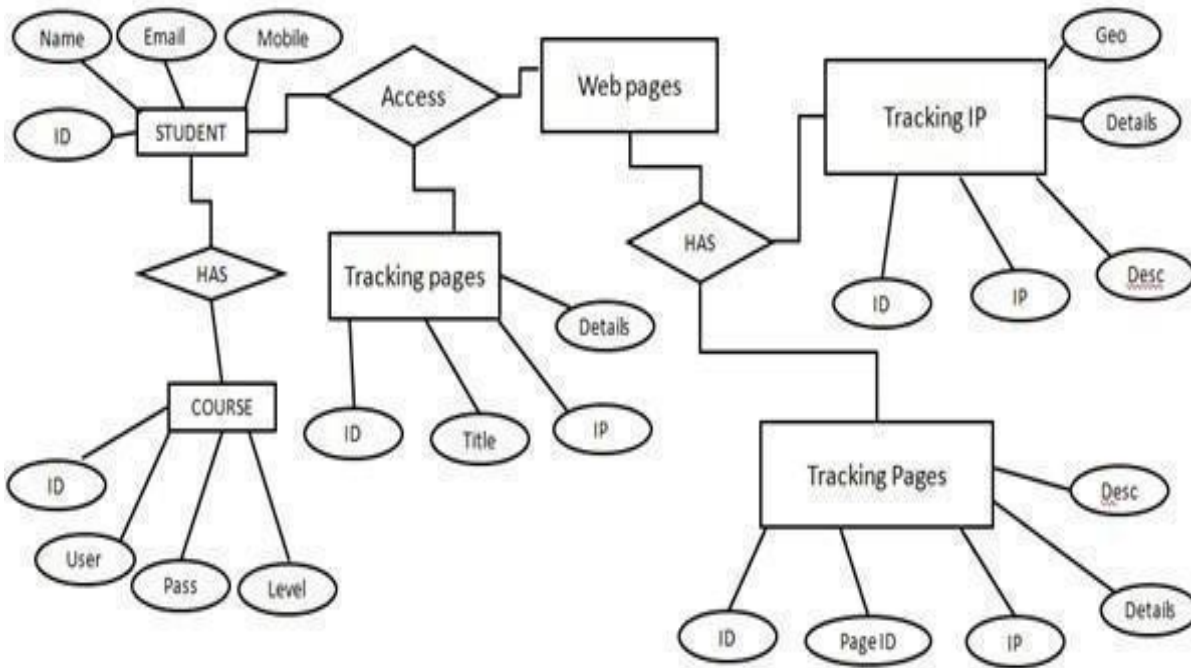


Figure 6: Entity-Relationship-Diagram

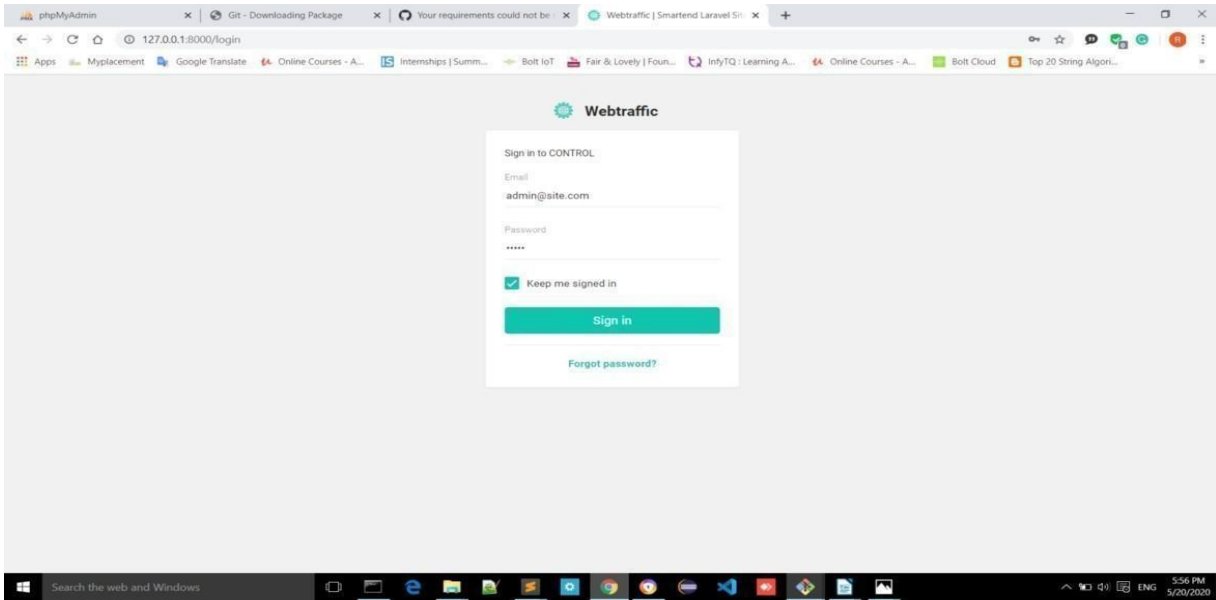
An ER model may be a sketch or outline for a desired database which will soon be implemented in the database. An E-R model's main components are of two main components. An Entity Relationship diagram will exhibit the connection within the two sets of entities. An Entity Relationship diagram will exhibit the connection within the two sets of entities. An ER model may be a sketch or outline of a desired database which will soon be implemented in the database. An E-R model's main components are of two main components. An Entity Relationship diagram will exhibit the connection within the two sets of entities. An Entity Relationship diagram will exhibit the connection within the two sets of entities.

CHAPTER 6

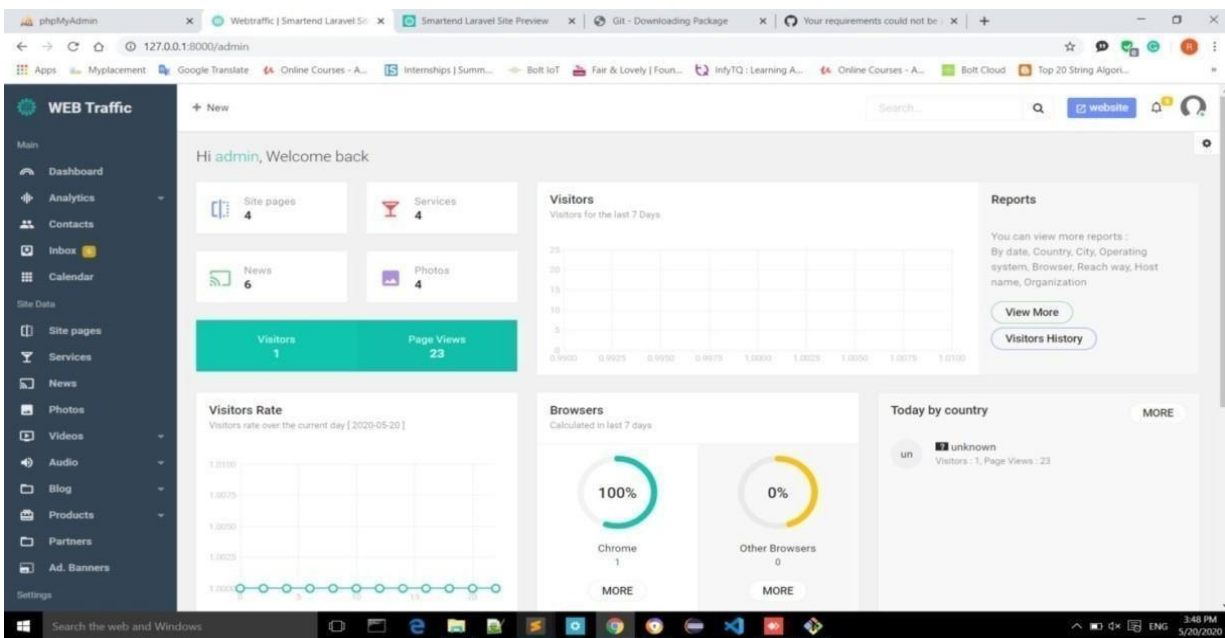
IMPLEMENTATIONS

6.1 SCREENSHOTS:

6.1.1 Loginpage



6.1.2 Admin



6.1.3 Inbox

The screenshot shows the 'WEB Traffic' inbox interface. On the left is a sidebar with navigation options: Main (Dashboard, Analytics, Contacts, **Inbox**, Calendar), Site Data (Site pages, Services, News, Photos, Videos, Audio, Blog, Products, Partners, Ad. Banners). The main area is titled 'Compose' and shows a list of 6 emails. The 'Options' panel on the right shows details for the selected email from 'Adam Ali'.

Sender	Subject	Date
Adam Ali	Test mail delivery message	07 Mar 2017
Ramy Adams	Test mail delivery message	07 Mar 2017
MMondi	Contact me for support any time	07 Mar 2017
Donyo Hawa	My test message to this site	07 Mar 2017
Amar Yamen	Need your help	07 Mar 2017
mohamed mondi	ORDER, Qty=12, Nullam mollis dolor	07 Mar 2017

6.1.4 Contacts-page

The screenshot shows the 'WEB Traffic' contacts page. The sidebar is the same as in the previous screenshot, with 'Contacts' selected. The main area is titled 'All Contacts (6)' and shows a list of 6 contacts. A 'New Contact' form is visible on the right side of the page.

Name	Phone
RACHANA Y L	8899556644
Mona Lamen	324-674-4578
Donal Tashee	674-274-8944
Adam Ali	589-234-2342
Maro Faheed	386-755-7788
Sara Smith	234-245-5674

6.1.5 Visitors-page

The screenshot shows the WEB Traffic dashboard with the 'Visitors History' section active. The table displays the following data:

Date	IP	City	Country
2020-05-20 10:04 AM	127.0.0.1	unknown	unknown

The dashboard also features a sidebar with navigation options like Dashboard, Analytics, and Site Data, and a search bar at the top right.

6.1.6 Analytics

6.1.6.1 Bydate

The screenshot shows the WEB Traffic dashboard with the 'Analytics [By date]' section active. The dashboard displays the following data:

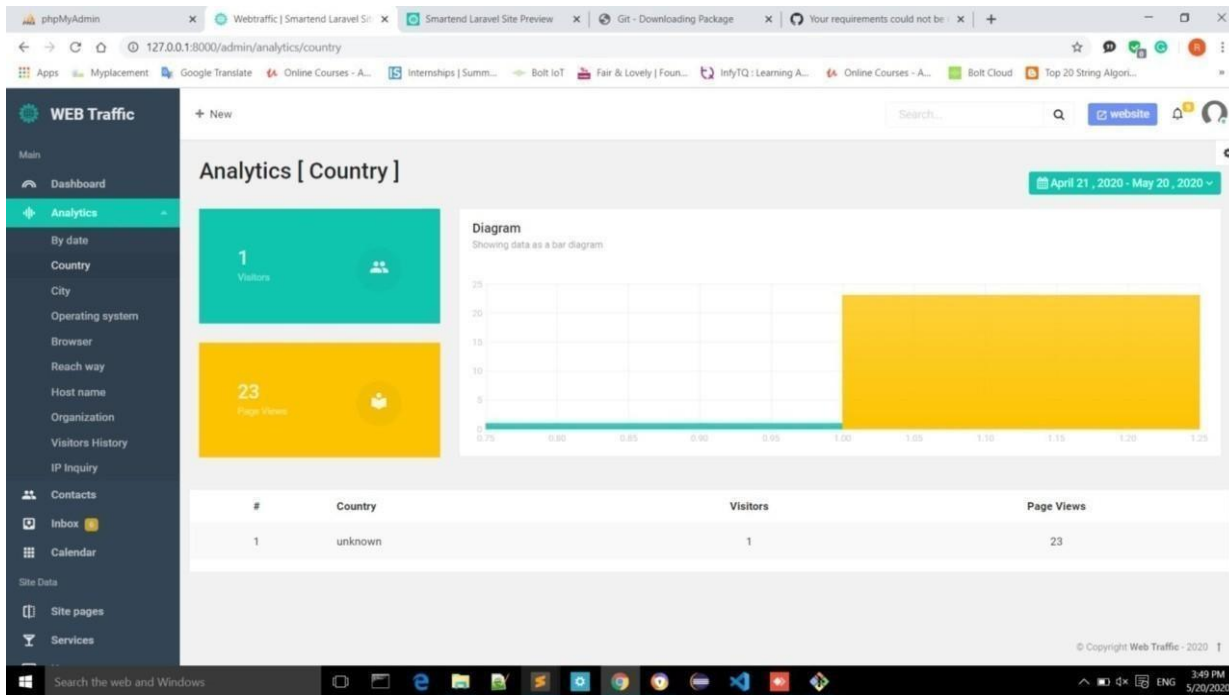
- 1 Visitors
- 31 Page Views

The 'Diagram' section shows a bar chart with the following data:

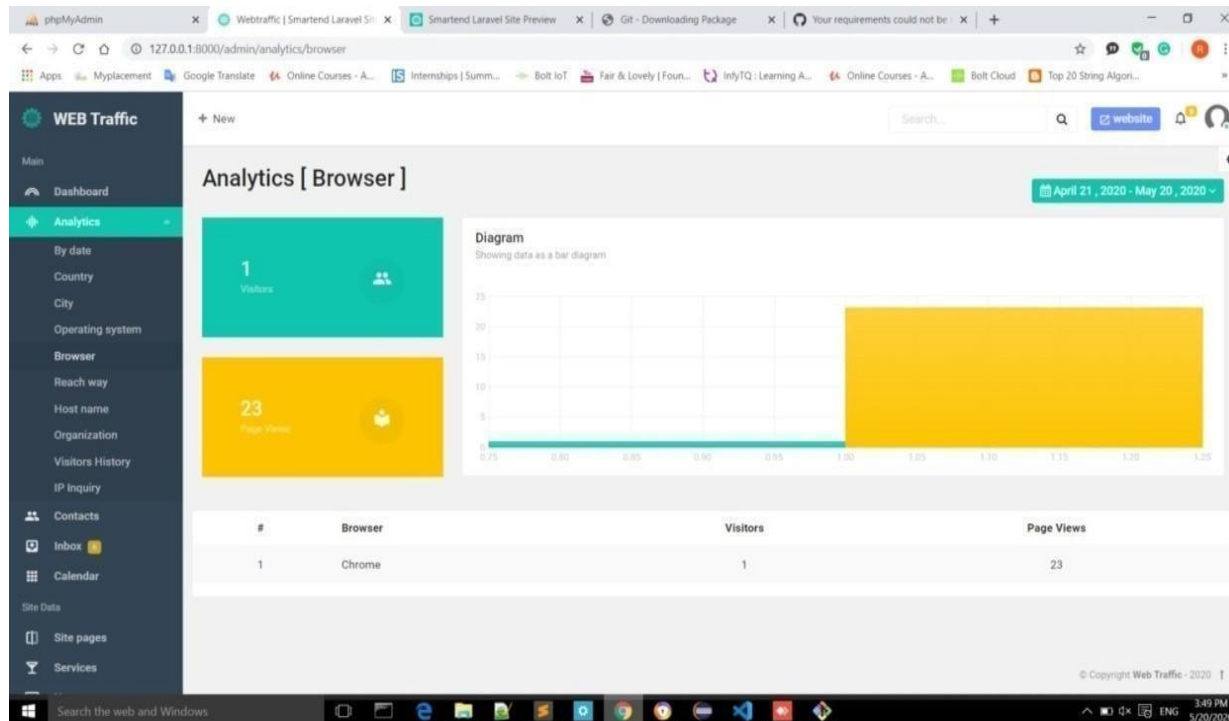
By date	Visitors	Page Views
2020-05-20	1	31

The dashboard also features a sidebar with navigation options like Dashboard, Analytics, and Site Data, and a search bar at the top right.

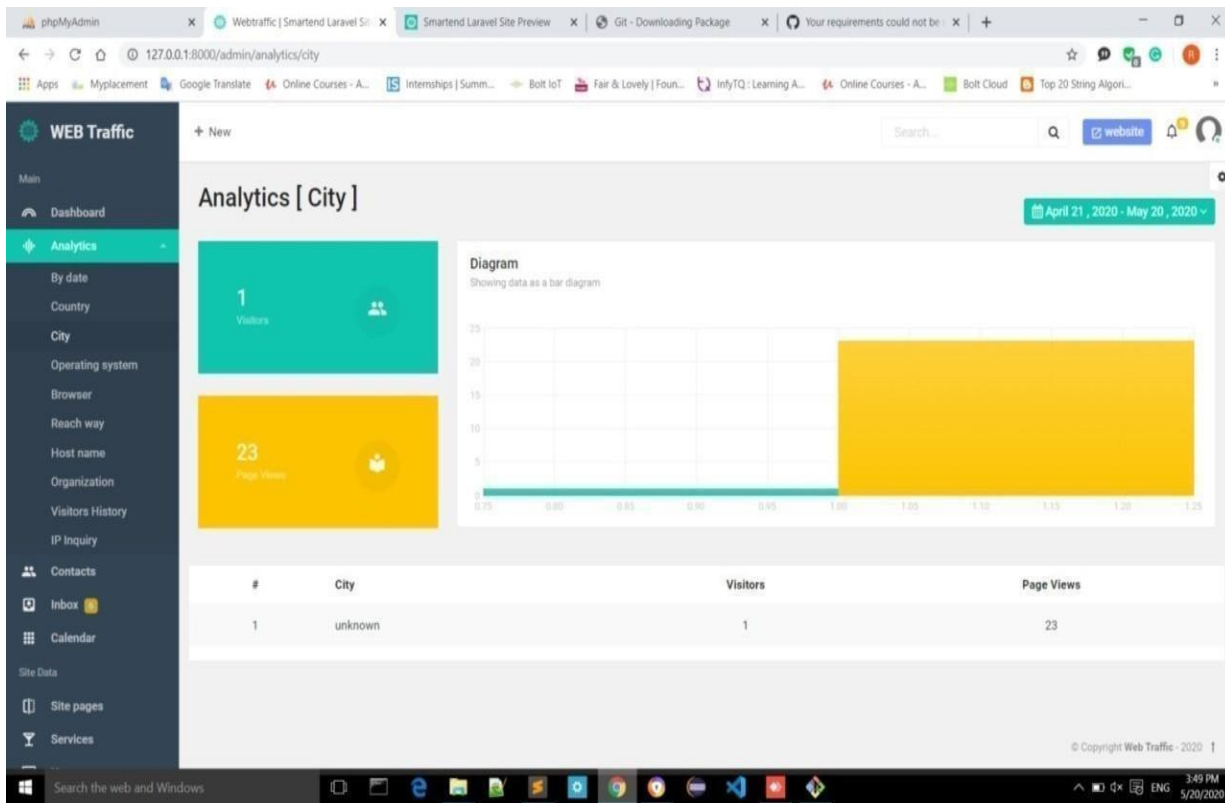
6.1.6.2 By country



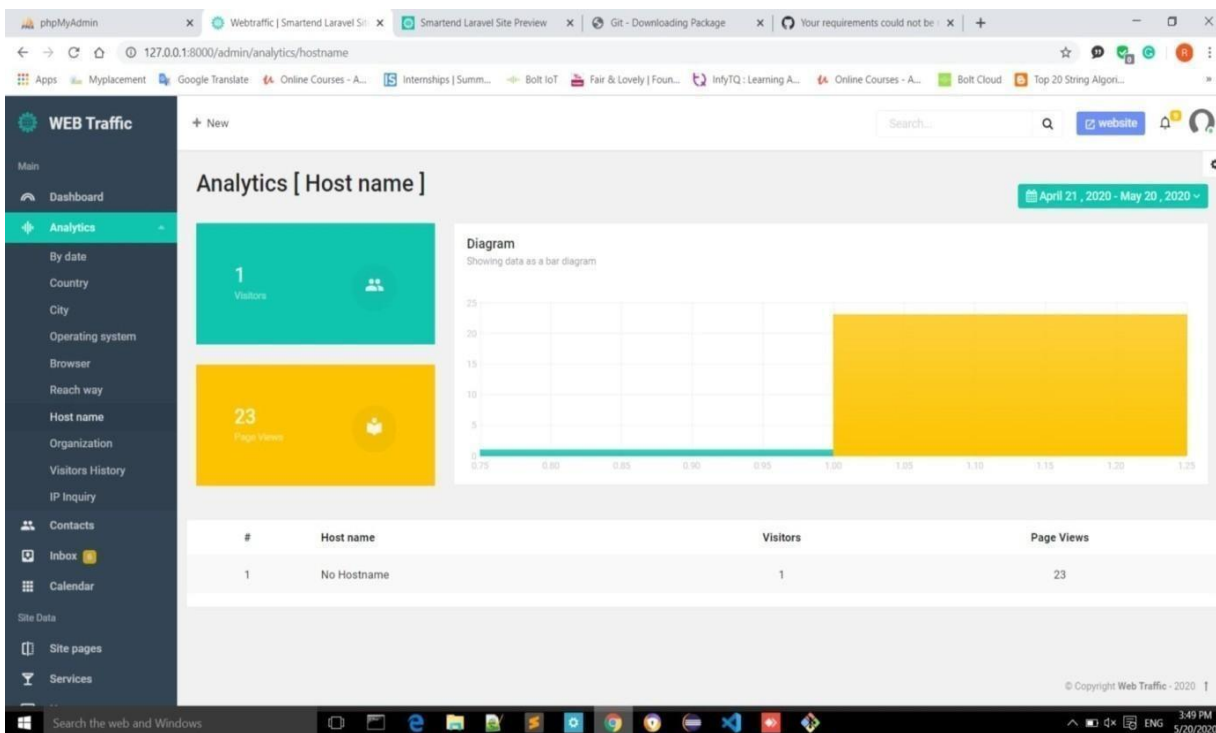
6.1.6.3 By browser



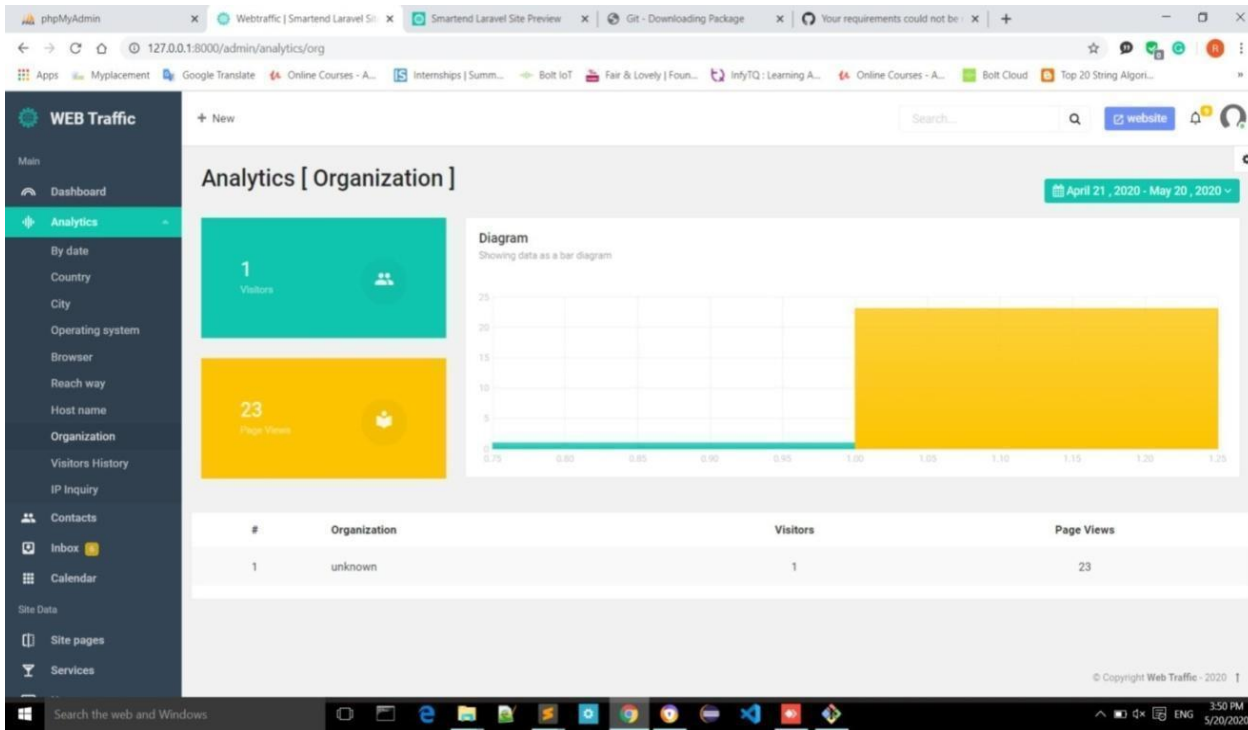
6.1.6.4 By City



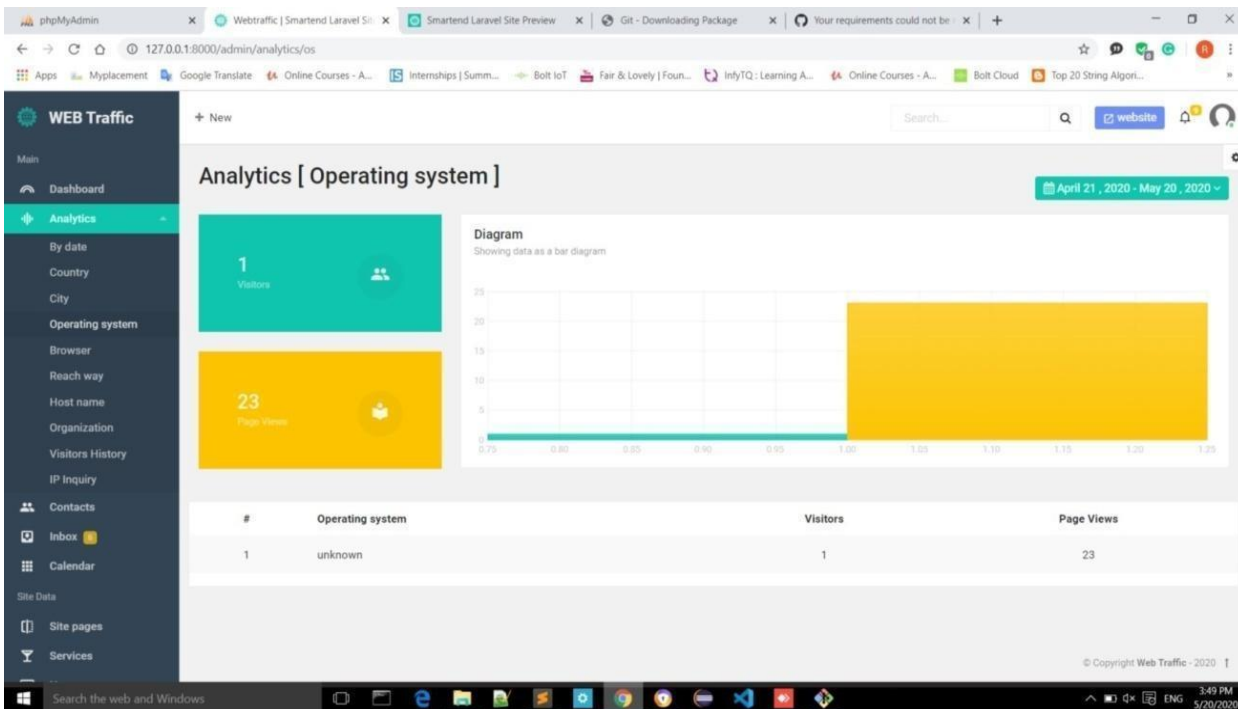
6.1.6.5 By Host name



6.1.6.6 By Organization



6.1.6.7 By OperatingSystem



5.7 IP Inquiry page

The screenshot displays the 'IP Inquiry' page within the 'WEB Traffic' admin dashboard. The browser's address bar shows the URL '127.0.0.1:8000/admin/ip'. The dashboard's left sidebar is visible, with the 'Analytics' section expanded to show 'IP Inquiry' as the active page. The main content area features a search bar labeled 'IP...' and a magnifying glass icon. The page title is 'IP Inquiry' with a subtitle 'Home / Analytics'. The footer of the page includes the copyright notice '© Copyright Web Traffic - 2020'. The Windows taskbar at the bottom shows the system tray with the date '5/20/2020' and time '3:50 PM'.

CHAPTER 7

SOFTWARE TESTING

7.1 GENERAL

The main aim of the testing process is having components having regular provided exercising discovering problems. Ensuring components can be met to its actual requirements and the user's expectations with the proof and depreciable.

7.2 DEVELOPING METHODOLOGIES

Unit tests are always performed on the basis of the tests which appear at the component level and the selected process of the business, system, and application-implementation (optional). Unit testing confirms every unique paths of the process of business accomplishing which is accurately used for the documentation-particulars and certainly contains the defined inputs clearly and expected results clearly.

7.3 TYPES-OF-TESTING

7.3.1 UNIT TESTING

Unit testing having productory faults while the planning happens to the directory of the building sectors demanding test-cases that require interior program logic is functioning exactly, which program input produces valid outputs. All the decisions of different branches and internal flow of the code should be validated as per the order. It's the individual unit of software that will be applied and tested. And is performed after the completion of a private unit before integration.

The structural testing will always rely on the knowledge of the constructing phase of its unit and is massive. Unit tests are always performed on the basis of the tests which appear at the component level and the selected process of the business, system, and application-implementation (optional). Unit testing confirms every unique paths of the process of business accomplishing which is accurately used for the documentation-particulars and certainly contains the defined inputs clearly and expected results clearly. And is performed after the completion of a private unit before integration. Unit testing confirms every unique path of the process of business accomplishment which is accurately used for the documentation-particulars and certainly contains the defined inputs clearly and expected results clearly. It is performed after the completion of a private unit before integration.

7. 3. 2 FUNCTIONAL-TESTING

Functional testing are those which provide demonstrations of the system, they depict the functions which will be tested will be available with the specified system requirements and the requirements of the also documentation, progress and requirements of business document, and user requirements.

Subsequent items on which the functional testing is done:

1. **Effective Input:** If the effective input is given then it should be accepted.
2. **In-Effective Input:** if the effective input is given it should be not accepted.
3. **Output:** The correct output should be given.
4. **Procedures:** The procedures must be followed correctly.

7. 3. 3 SYSTEM TESTING

This testing will ensure the whole software meets correct requirements. It will also be used for processing the correct part of the application. This method of testing is established while the requirements of process description and flows, emphasizing points and also pre-implemented-processes . It will also be used for processing the correct part of the application. This method of testing is established while the requirements of process description and flows, emphasizing points and also pre-implemented-processes .

7.3.4 PERFORMANCE-TESTING

This kind of testing makes sure that the outcome will be correctly provided and is produced before the given time and therefore it calculates time in the system and takes it for debugging. This method of testing is established while the requirements of process description and flows, emphasizing points and also pre-implemented-processes . It will also be used for processing the correct part of the application. This method of testing is established while the requirements of process description and flows, emphasizing points and also pre-implemented-processes .

7.3.5 INTEGRATION-TESTING

The blending test-is-to ascertain-that-components or the software-applications. This method of testing is established while the requirements of process description and flows, emphasizing points and also pre-implemented processes . It will also be used for processing the correct part of the application. This method of testing is established while the requirements of process description and flows, emphasizing points and also pre-implemented-processes .

7.3.5 ACCEPTANCE-TESTING

ACCEPTANCE-TESTING FOR THE-DATA--SYNCHRONIZATION:

- Acknowledge-ments are going to be acquired by the sender-node there-after the information-are received-by the destination-node.
- Route-add-operation is completed rather if there's a Route-request-in-need.
- Acknowledge-ments are going to be acquired by the sender-node there-after the information-are received-by the destination-node.

BUILDING THE TEST PLAN

Any sort of project is always partitioned into different units which will be performed further for processing it detailly. Unit testing allows us to identify the-bugs within-the-each and every ingredient will-be, therefore particular ingredients will contain faults that are often being found and may be solved. The testing-strategy for each and every unit is administered in process. Unit testing allows to identify the-bugs within-each and every ingredient will-be, therefore particular ingredients will contain faults that are often being-found and may be solved. Be-performed futhurly for processing it detailly. The testing strategy for each and every unit is administered in process. Unit testing allows identifying the-bugs within-each and every ingredient will-then, therefore particular ingredients will contain faults that are often being-founded and may be solved. Unit testing allows identifying the-bugs within-the-each and every ingredient will-then, therefore particular ingredients wil-bel contains faults that are often being found and may be solved. The testing strategy for each and every unit is administered in process. Unit testing allows identifying the-bugs within each and every ingredient will-then, therefore particular ingredients will contain faults that are often being-founded and may be solved. Unit testing allows identifying the-bugs within each and every ingredient will-be, therefore particular ingredients will contain faults that are often being-founded and may be solved. The testing strategy for each and every unit is administered in process. Unit testing allows identifying the-bugs within-each and every ingredient will-be, therefore particular ingredients will contain faults that are often being found and may be solved. We-performed futhurly for processing it detailly.The testing strategy for each and every unit is administered in process.

7.4 TEST CASES

Sl.no	Description	Test data	Expected output	Actual output	Status
1	Check if the login entered is correct	admin@site.com	Login id is correct should displayed	Login id correct is shown	Pass
2	Check the entered password is correct	admin	Password correct should be displayed	Password correct is displayed	Pass
3	Check if the number of page views increase when clicked	Click on the page	Page views should increase	Page views increased	Pass
4	Check the details of contact page added/updated correctly	Contact	Contact details page should be updated correctly	Contact details page updated correctly	Pass
5	Check if the number of visitors of the page is displayed correctly	Number of Visitors	Visitors of page increase	Visitors of page increase	Pass
6	Check if the contact details are properly deleted	Delete the contact-details	Contact details should be deleted	Contact details are deleted	Pass

CHAPTER 8

CONCLUSION

I conclude that using this web traffic analyzer we can generate basic type of statistical kind of data and can perform traffic analysis of web server. This tool will help with determining the data where it takes a best position-marketing based on time and budget provided by you.

Website analysis used as a gizmo for optimization of your website based on the performance and by highlighting how the users are interacting together with the data. Not only that, and also it allows you to decide how well your website performs, but it also provides meaningful data about the visitors.

CHAPTER 9

FUTURE ENHANCEMENTS

The future-enhancement are as follows:

1. Google analytics can be integrated
2. The amount of time spent by each user on the website can be tracked
3. Facebook pixel integration can be done
4. SEO(Search Engine Optimization) integration can be done
5. Email template integration can be done
6. Increases your social media presence

Appendix A

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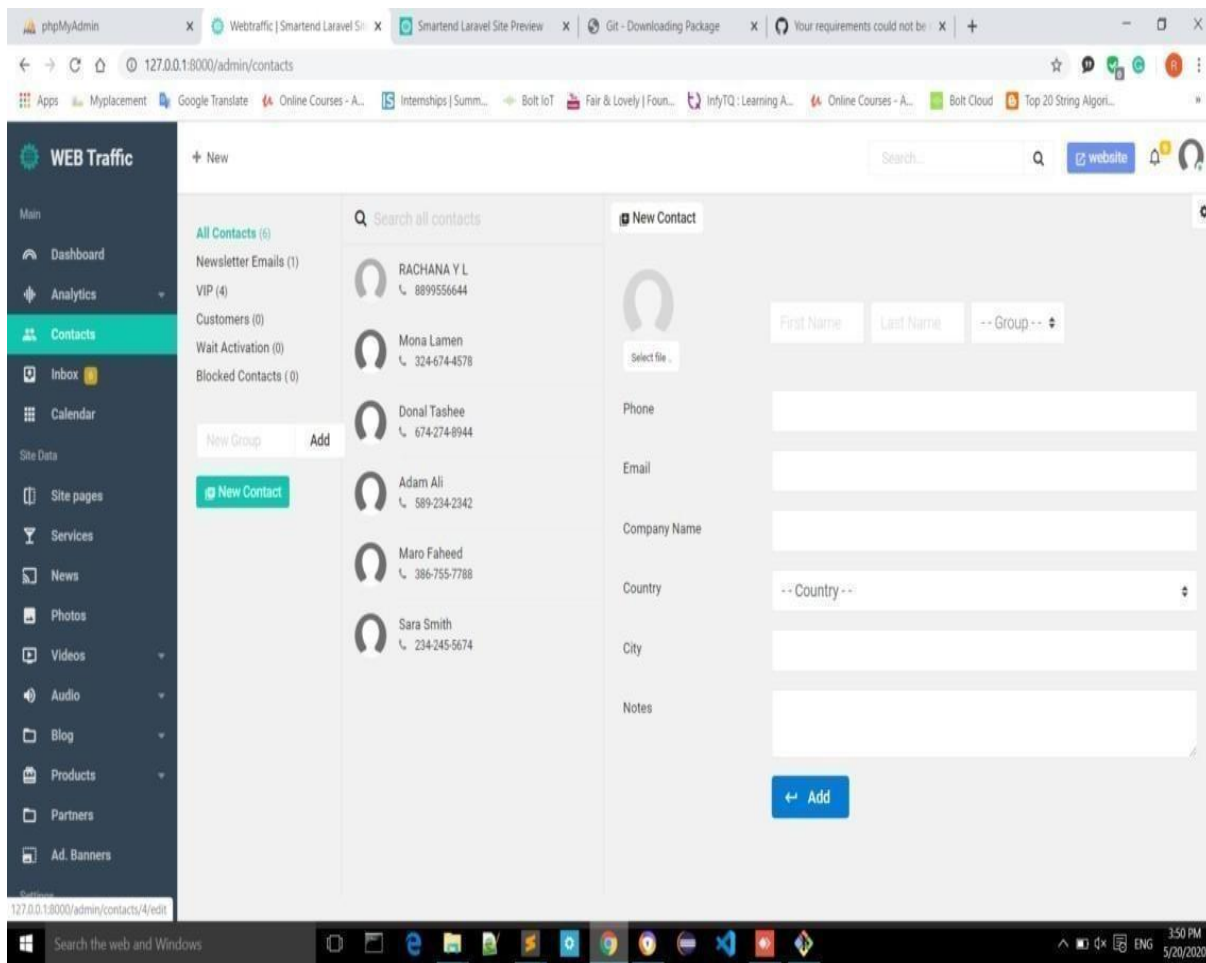
- Jeffay, Kevin."[Tracking the Evolution of Web Traffic: 1995-2003*](#)" (PDF). UNC DiRT Group's Publications. University of North Carolina at Chapel Hill.

- Malacinski, Andrei; Dominick, Scott; Hartrick, Tom (1 March 2001). "[Measuring Web Traffic](#)". IBM. Archived from the [original on](#) 19 July 2008. Retrieved 10 October2011.

Appendix B

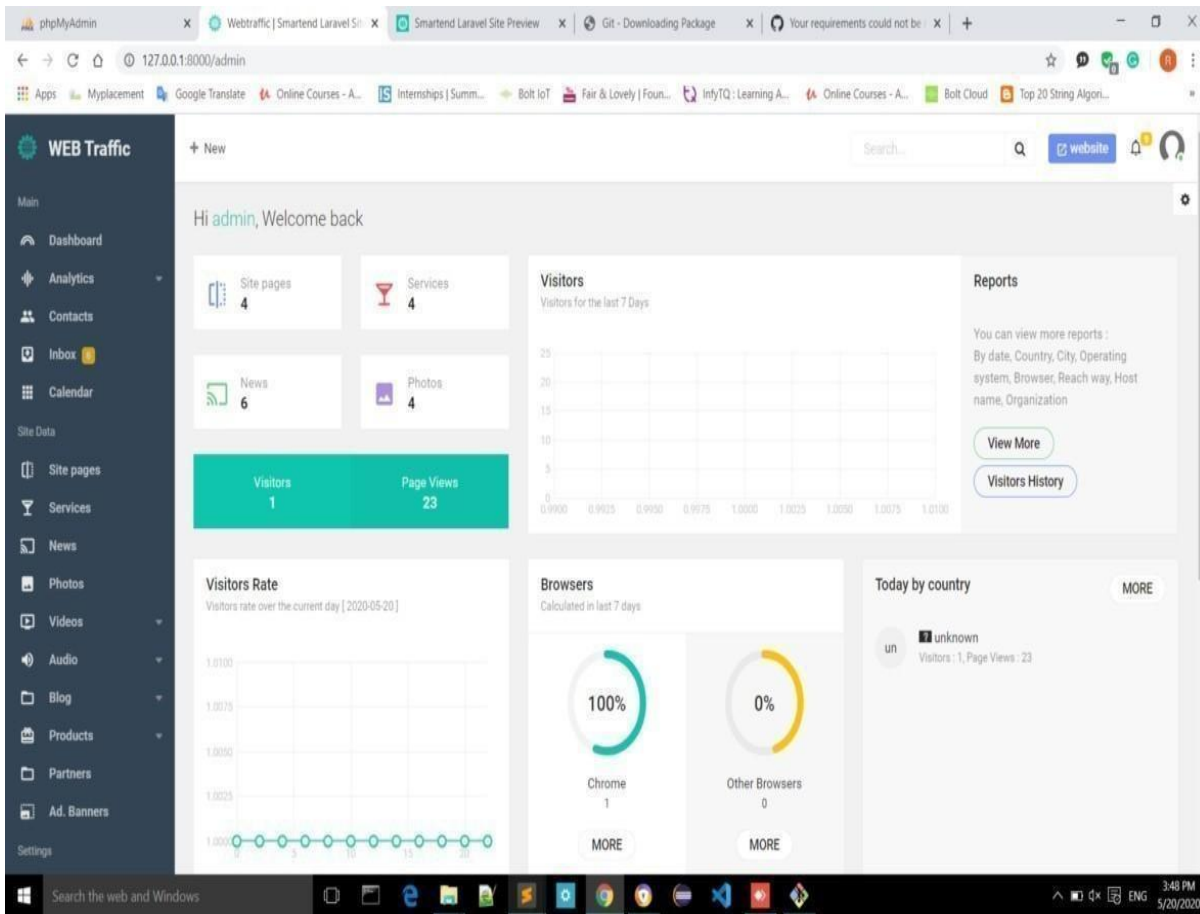
USER MANUAL

Contact-details



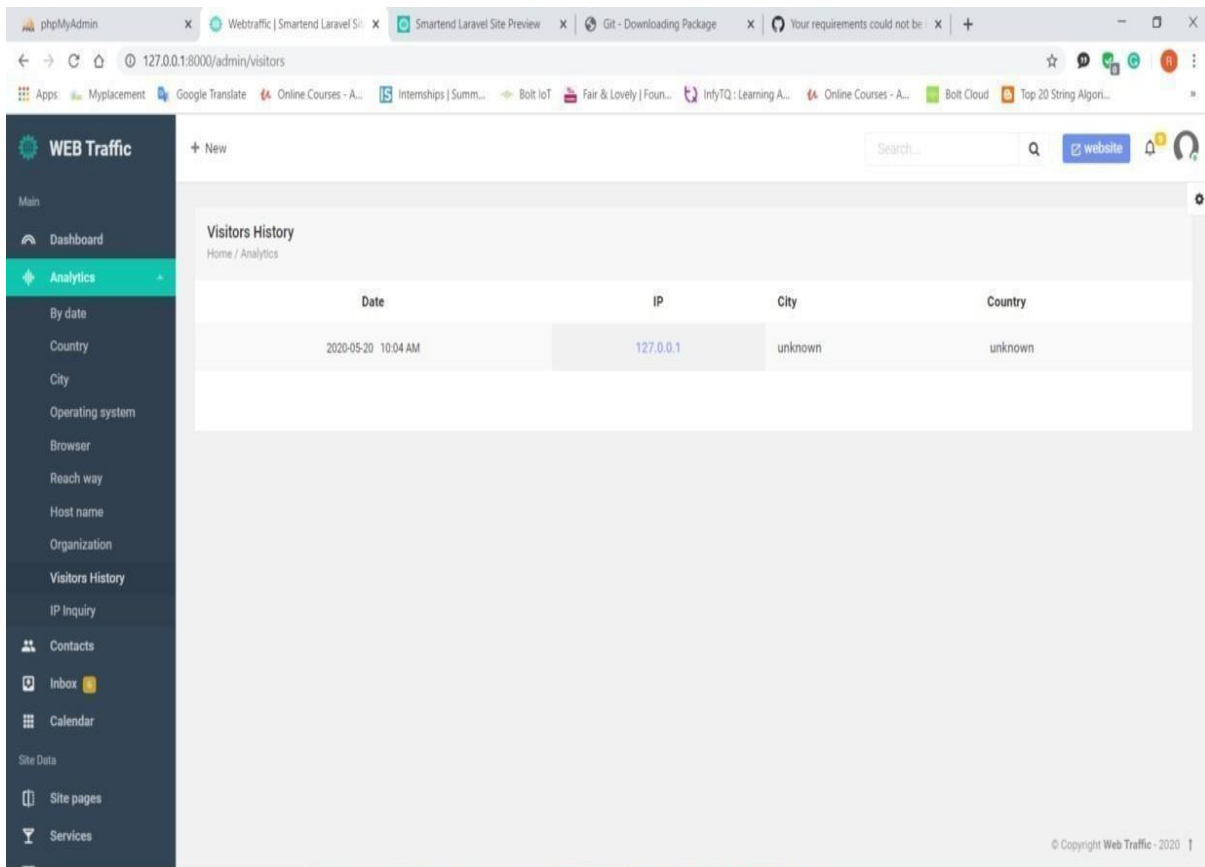
Contact details pages are used to store the contact details and also the about the visitor of the web pages. To access the contact page the admin but click on the contact button or a hyperlink

Admin-page



Admin page consists of all the details of the visitor's details, browser details, date, visitor rate, country details, and also the reports. To access the admin page the admin must send login with the correct login id and the password.

Visitors-page



Visitors page gives the details of the IP address of the visitors, date and time when the visitor has been visited, and also the city and the country from where the visitor has been visited.