

A project report on

**DISCOVERY TECHNIQUE PROVIDER WITH
ALGORITHM AND CHARTS**

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

MASTER OF COMPUTER APPLICATIONS
Of



Visvesvaraya Technological University
Belgaum, Karnataka

By

Mohammed Arbaaz
1CY18MCA56



CMR INSTITUTE OF TECHNOLOGY
132, IT Park Road, Kundalahalli, Bangalore-560037
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Under the guidance of

Internal Guide

Ms. Moumita Roy
Assistant Professor,
MCA Department,
CMR Institute of Technology,
Bangalore.

External Guide

Mr. Ganesh D
Tangent ProBiz
Bangalore.



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2019-2020

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



CERTIFICATE

This is to certify that the project work entitled

**Discovery Techniques Provider With Algorithm
And Charts**

*Submitted in partial fulfilment 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*

Mohammed Arbaaz
1CY18MCA56

during the academic year 2019-2020.

Signature of the Guide
Ms. Moumita Roy
Assistant Professor, MCA

Signature of the HOD
Ms. Gomathi.T
HOD, MCA

Signature of the Principal
Dr. Sanjay Jain
PRINCIPAL, CMRIT

External Viva

Name of the Examiners

- 1.
- 2.

Signature with date

DECLARATION

I, **Mohammed Arbaaz**, student of 6th Sem MCA, **CMR Institution of Technology**, bearing the USN **1CY18MCA56**, hereby declare that the project entitled “**Discovery Techniques Provider With Algorithm And Charts**” has been carried out by me under the supervision of External Guide **Mr., Ganesh D**, Team Lead, and Internal Guide **Ms. Moumita Roy**, 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

Mohammed Arbaaz

Date:

(1CY18MCA56)

ACKNOWLEDGEMENT

I would like to thank all those who are involved in this endeavour for their kind cooperation for its successful completion. At the outset, I wish to express my sincere gratitude to all those people who have helped me to complete this project in an efficient manner.

I offer my special thanks to my external project guide Mr. Ganesh D Team Lead, Tangent ProBiz, Bangalore, and to my Internal Project guide Ms. Moumita Roy, Assistant Professor, Department of MCA, CMRIT, Bangalore without whose help and support throughout this project would not have been this success.

I am thankful to Dr. SANJAY JAIN, Principal, CMRIT, Bangalore for his kind support in all respect during my study. I would like to thank Mr. Ganesh D, Team Lead, Tangent ProBiz, Bangalore, who gave opportunity to do this project at an extreme organization Most of all and more than ever, I would like to thanks my family members for their warmness, support, encouragement, kindness and patience. I am really thankful to all my friends who always advised and motivated me throughout the course.

Mohammed Arbaaz
(1CY18MCA56)

CERTIFICATE



#80, Krishna Reddy Colony,
Domlur , Bangalore-560071
Contact-+918660840581
E-mail: info@tangentprobiz.com

*Applying intelligence to make technology
work*

CERTIFICATE

This is to certify that the project titled "Discovery techniques provider with algorithms and charts" is submitted to Tangent ProBiz in fulfillment of the requirement for the final semester degree of MCA from CMRIT, Bangalore.

The project is a bona fide record at work carried out by Mr. Mohammed Arbaaz (1CY18MCA56) under the supervision and guidance of Mr. Ganesh D (Team Lead), Tangent ProBiz Bangalore between the periods from 23/12/2019 to 27/5/2020.

The source code of the Project and executable file setup is not issued to the trainee as per the policy of the company.

Thanking You,

For Tangent Pro Biz

A handwritten signature in blue ink that reads "K Jain".

TANGENT PRO BIZ
80, Krishna Reddy Colony
Domlur Layout, Bangalore-560 071
Mr. Karan Jain
(HR Manager)

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1. INTRODUCTION

1.1 PROJECT DESCRIPTION

Ideological exploratory analysis requirements are incorporated in the system in a way that it can provide the channel for all types of processes required for the analysis. The system provides the summarized research data with quantitative data science which will be explained with all references of work provisions where multiple types of methodological calculations are required. The critical plan perceptions for the knowledge information analysis can be properly associated with the system which is associated with different types of decision that are required by the organizations on a larger scale. The system is well equipped with elaboration where all types of labels that has associated for conducting a research can now be customized and can be centralized.

The variations that are required can be established with detailed incorporation of different types of level workability provided within the system. To encourage the users with detailed references of workability the system is also associated with guidelines and the channel information is provided to have the Corporation of different activities in a synchronized way. The system is also designed to provide auto conversions that are required when very large set of information is established. The systematic variations that will be required to be handled in the real time when the perceptions are analyzed and discussed can also be substituted with any type of modification requirements. The system can be modified in different references anytime as it is basically designed for the proclamation of analytical understanding.

The system also provides the variations of compatibility as it is required that in each reference level concepts will be different and each worker reference will be associated with integrated working. Integrated working that is provided is more referential in nature and each type of work regards can be discussed and implemented for example when the first step of gathering the information has to be conducted the system provides a way where any type of working platform can be channelized innovate that each Association can be governed and navigated as required by a particular user. Each reference of the data will be analyzed in the format it is required so for example if the information is required to be transferred in a PDF if it is required directly to the channeled from any third party server it can be arranged.

The raw data that will be provided to the users can be modified whenever required with the help of different types of formulas. The particular that have required for the conversion after statistical data the required to be studied is associated with the system which can be directly implemented

on two different types of rows and columns where the data will be presented. Multiple incorporated formulations are presented so the users are not required for third party tools which will be used for different types of formulations and conversions. The particulars are presented in such a way that it is easier for users to implement and use them where even a structured information representation will be provided so that deleted understanding and achievement can be achieved. At the time of revised understanding the system also requires integrated platforms for any type of transfer of information support which in the system provided with a central understanding and workability.

Quantitative measures and multivariate analysis can be properly established within the system as it will support different types of analytical methodologies and review methods. The preview method that was associated will be also acknowledged in a way that each consideration can be properly analyzed with the graphical support in real time. Modeling techniques in different types of descriptive ways are provided so when a particular established and formulated data is required to be studied it can be converted. The conversions are provided in real-time as a system will be synchronized with multiple third party platforms from where the data has been fixed so the user will be having the considerable display of the information.

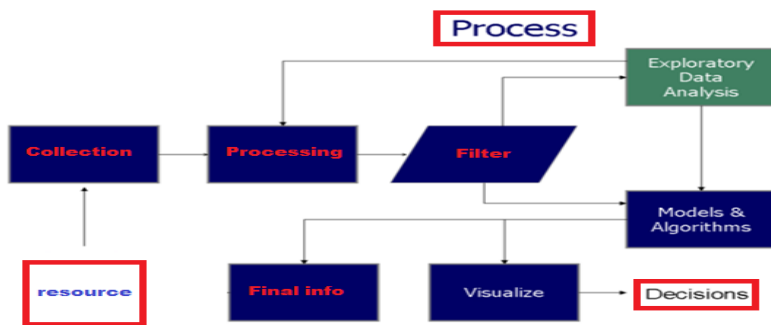


Figure-1

Analytical process undertaken is shown

All types of information that is presented can again be customized and each customization is provided with the reference identities so that descriptive conditional distribution can be provided. References that are added will be utilized with the incorporated representation types that have provided so we can say that at the time of Representation the users will be having different types of choice to get the type of graphical display they want. The systematic establishment of the information with multiple Windows are also associated so that if different scenarios are required to be studied can be done in the system will support multiple window representation from a single frame. Each reference that has produced in the format of reports can also be transferred for which the system is being added with various types of transfer platforms which will be operative in

accordance to the reference. Each platform that is required to be utilized can be selected and with the help of simple settings it can be utilized for the report transferring and for the report publishing.

1.2 COMPANY PROFILE



Built up in 2010 all the related operational innovative work administrations are given the different associations. The related ability will assist the customers with associating the need it incorporated work excellences as per the redid necessities concerning each customer related prerequisite investigation with related research procedure for execution is arranged so a very much characterized program point of view can be given. The whole innovative base is incorporated for the necessary advancement and examination as related view of the customer's prerequisite taken so that upgraded work administrations can be given.

The organization gives various stage based business arrangements to the customers including various areas from account to the advancement associations with the goal that a working can be more improved in differential working. The Global nearness and the required conceptualization usage to accomplish the objective will help the association the objective more customers.



The main working choices in terms of the association is listed below-
Business Optimization

Facilitating arrangements gave

Portable application administration

Digitalization

Generation observing

Monetary counseling

Online business stage outline

Application advancement

Rebuilding exercises

Examination progressively will be embraced

2. LITERATURE SURVEY

2.1 EXISTING AND PROPOSED SYSTEM

EXISTING SYSTEM

The existing system but descriptive planning is quite difficult where variations of analytical methodologies are required to be implemented so when we have understood the problems of the clients from multiple business formation we found that they are feeling the pressure of cost investments required and a proper control mechanism which is also needed when we have interviewed multiple clients the found that for considering the analytical reviews there required multiple technical Associates where even synchronized working is not possible.

Some of the important problem that are faced are listed as following-

- In the existing system the clients requires various level of processes which includes the detailed processing and representation of the descriptive statistics where they require different types of resources this will be very much expensive
- In the existing system we also found that the conditional distribution that is needed for the calculative descriptive understanding is also missing or cannot be controlled from Central system which indeed requires the support of multiple expertise
- Incorporated data which will be the base of analytical preview generation is also very much complicated to be fetched as different types of resources are required which has to be individually organized for the data reference
- The methodological formulas for the conversion are also quite difficult to implement as a detailed knowledge is required for the references. Each methodological implementation requires different types of formulation so different types of tools are utilized
- Elaborated work that is required to be managed in a synchronized way is also quite difficult as each level processes are individually managed so we found that it the requirement of synchronization is not fulfilled
- Complex tabular format understanding in variation of the statistics is also quite difficult to be channeled properly. The system that are used does not support multi tabulation and representations
- The monitoring and deviation that are required according to the condition is also not supported in the existing work scenario so it is much more difficult to have the understanding of the related analytical data in real time

- Multiple types of sharing and publishing complexity is also knowledge in the existing system. The way of communication needed is also not supported in the existing system due to the compatibility issues that have been acknowledged by the clients when they have been interviewed

PROPOSED SYSTEM

The proposed system is based on integrated processing levels that are required for different work consideration related to analytical understanding and each reference as the problem that have been acknowledged in the existing system is been eliminated. The propose system design is to support and provide scalability that is needed by the organizations with total incorporated synchronization. The proposed system is acknowledged with multiple types off associations that will provide the compatibility and usage in elaboration.

Important aspect that has been acknowledged is being listed below-

- In the proposed system multiple levels of the processes that are required for descriptive statistics are presented in such a way that each level can be managed and organized from a single system which makes it very much cost effective
- The propose system also provides centralized conditional distribution which is needed for the calculator of descriptive understanding in a controlled manner
- Analytical preview that is required to be generated by getting different types of incorporated data from different types of sources it's quite easy to generate in the proposed system as various references and date at acknowledgement types are provided. All types of compatibility based on platforms and services are provided in the proposed system
- Various types of methodological formulas that are required are presented in a inbuilt format to provide the detailed Association so the users feel more flexibility for different types of formula implementation process
- As the work undertaken for the descriptive statistics will be to elaborate and requires different types of stages to be handled the propose system provides a synchronized working where each associated pages automatically synchronized
- The proposed system also supports the complex tabular formations that are required for statistics understanding and even it can be channeled as required with detailed modifications
- The deviation and monitoring that is required is also provided in the proposed system so according to the condition related analytical data can be processed and each type of

monitoring information that is presented to the user will be in real time. The monitoring that is provided will be associated with different types of graphs for better view and understanding

- The complex information transfer system is also properly managed in the proposed system where all types of reports can be properly transferred and can be established in a way that security can be also established

2.2 FEASIBILITY STUDY

Visibility requirements are required to be understood to get the details about the association's requirements, technological requirements, the weaknesses and proper feasible solutions that have to be acknowledged for the development of the project. Feasibility study is basic for the decision making as we have to understand all the opportunities and threats before the system is been designed. The feasibility study is it important to make us understand different types of requirements and according to the requirements the required feasibility considerations. Feasibility study will be divided into major categories for example

Technical feasibility

Operational feasibility

Financial feasibility



Figure-2

Shows the reference for the feasibility that has to be considered

TECHNICAL FEASIBILITY

Technical feasibility is all about the references of the requirements which are required for different types of methodological implementation and the strategic understanding of different levels related to descriptive statistics

The technical perceptions which are required for the compatibility where multiple references will be provided has to be acknowledged with all types of accuracy

Each technological factor that have related for the development and implementation will be properly acknowledge and each reference will be established in a collaborative working environment where the team managers will help underline the work properly

Each descriptive statistical modification that is required with different types of formulas will be also established and will be check for the references

OPERATIONAL FEASIBILITY

Operations in the real-time requires smooth workability where different types of users will be having different types of queries which are required to be analyzed

Working is required to be properly presented to the users where document contents will be provided so that each type of convergence and steps included can be properly organized

The uses will be properly acknowledge with options provided within the system so that they can associate technology in more optimized way and the system can have more regarded an enhanced working

All types of development schedules and the corporate culture has to be properly organized so that different types of project workability can be generated and organized

FINANCIAL FEASIBILITY

Source and money requirement will be properly established so that the system can be properly designed and can be properly implemented

Any type of funding that is required will be provided by the board of directors as the association of following is not considered

The return on investment are required to be calculated properly as the system will be presented with multiuser variations and have to be acknowledged with proper care so that a proper define profitability can be known and predicted

2.3 TOOLS AND TECHNOLOGIES USED



JAVA

We will utilize different editors for Java that is accessible for instance Net Beans and Eclipse. Some noteworthy utilization of Java is that it is having meaning healthy faultlessness that suggests it is reliable as it can manage different sorts of uncommon case dealing with, memory portions, and waste social event.

Java has been configuration by sun microsystems to give the necessary adaptability and furthermore it gives stage autonomous byte codes. Java is a made sure about language which will utilize different open keys for the refreshed security arrangement.

MY SQL

My SQL is promoted in supported by My SQL which is a Swedish association, and different assortments are given by MySQL to point of reference

It is the most predominant database group and huge subsets of the functionalities can be properly sifted through

It is an open source grant based working

It will be versatile

MySQL works on many working structures and it support different lingos for example Java PHP, etc.

2.4 HARDWARE AND SOFTWARE REQUIREMENTS

SOFTWARE REQUIREMENTS

Databases	:	MySQL 8.0.13
Technology	:	Hybrid cloud (implementation)
Platform	:	Windows
Languages	:	JAVA (J2EE, JavaScript, JSP)
Integrated development environment	:	NetBeans/ Eclipse
Supporting Server	:	Apache Tomcat 8, SSD cloud server, Amazon s3

HARDWARE REQUIREMENTS

- Computer processor : 4th generation Intel core i3
- Clock speed : 1.7 GHz
- Hard Disk Space : 500 GB
- RAM : 4 GB

3. SOFTWARE REQUIREMENT SPECIFICATION

3.1 USERS

Administrator

Administrator will be provided with the concerned controls fast as various steps are included and each steps are required to ignore list individually by different types of teams so multiple teams will be added and the related work accessibility control features will be associated so that working can be achieved as Desired.

Team members

Team members are the associates who will be associated with the task of working Association based on multiple processes and labels that are included for that script statistics provision. They will be having the control as it is provided by the administrator

SCOPE AND OBJECTIVE

The nature scope of the system is to have a channel working which will be associated with multiple consideration of amalgamated process orientation for detailed descriptive analysis so various types of decision making formations can be acknowledge at the same time in a very cost effective

Main objective of the system is that system will provide the readymade workability the associations required for the data retrieval, the acknowledgement that are required for the conversion and the acknowledgement requirements for the display and publishing

ASSUMPTION AND DEPENDENCY

The major assumption that has been considered is that all types of relational work management based on groups and roles that are required to be defined will be done by authenticated administrator processing of the data will be done by users those who expertise

The major dependency that has to be established is is that each reference of work will be done through a single system making it the only provisional resource for the organization to undertake workability.

PROBLEM STATEMENT

Problem statement in reference to the system is to generalize different types of Discovery references on a single where we have to provide a contrived reference so that different types of

clients can use the system indifferent dominations so it is quite difficult as the system has to provide the exact references based on the regulations that are provided

Multi considerations of the proximity will be provided so each property will be checked for the accuracy that will be undertaken

3.2 FUNCTIONAL REQUIREMENT

The options that are provided to the users are required to be acknowledged in such a way that each consideration requires a substantial elaboration which will be done to make more understandability. The references that are added will be defined to establish the aspects of into that have acquired, the outputs that are required to be shown, the inaugurated establishment of the digital processing and different types of triggers

Framing setup

Use Case Name	Framing setup
Trigger	Inputs and selections
Precondition	Settings
Process	Framing setup will be provided to the control administrator where all working spaces will be defined in the working integration regulations will be provided as the status will be performed different workspace will be utilized by different team members associated to perform different types of activities in parallel.
Post-condition	Detail added

Statistical gathering

Use Case Name	Statistical gathering
Trigger	Settings
Precondition	Working rights required
Process	Statistical gathering will be provided with

	<p>multiple processing platforms and different types of processing methodology where the users are required to select a particular type of methodology and relative settings required to be Incorporated.</p> <p>As a particular option selected by the user the system will proceed to provide the help in terms of setting and accordingly the data will be retrieved and will be provided to the users on the work frame that is being utilized to undergo different aspects of analysis and modifications</p>
Post-condition	Types of settings acknowledge

Formula considerations

Use Case Name	Formula considerations
Trigger	Selection based
Precondition	Data reference added
Process	<p>Formula considerations are also provided where when the date has been processed it will be acknowledged by multiple types of formulas that are required to generate different types of analytical data.</p> <p>The system provides direct operational implementation with the help of direct inputs and with the help of selective data type processing. Formula will be implemented and the conversion information will be provided to the users</p>
Post-condition	Data output seen

Graphical output

Use Case Name	graphical output
---------------	------------------

Trigger	Selections
Precondition	Reference data saved
Process	<p>The output generation mode is provided within the system in such a way that all the information that is generated can be structured in a graphical output which is required for the base of the analysis as it will take a reasonable time so the company will be benefited if the statistical data and real-time is provided with graphical variations.</p> <p>The system will provide the graphical options in such a way that it can be also selected this will provide flexibility and usage in more advance way</p>
Post-condition	Multiple graphs seen

Automatic publishing

Use Case Name	Automatic publishing
Trigger	Selections
Precondition	Credentials required
Process	<p>Automatic publishing that is required for the reports that are generated is also associated with the platform with the help of selection based publishing which will include multiple options in settings. Each type of platform that is required for transferring the data will be set up in accordingly data transfer can be processed.</p>
Post-condition	Publishing seen

3.3 NON-FUNCTIONAL REQUIREMENT

Which nonfunctional requirement will be discussed and will be documented where even the references that have provided will be achieved in such a way that users should have the availability of all the requirements for making the system more optimized and defined quality can be maintained. Nonfunctional requirements will discuss the details about the maintainability, scalability, security, documentations etc.

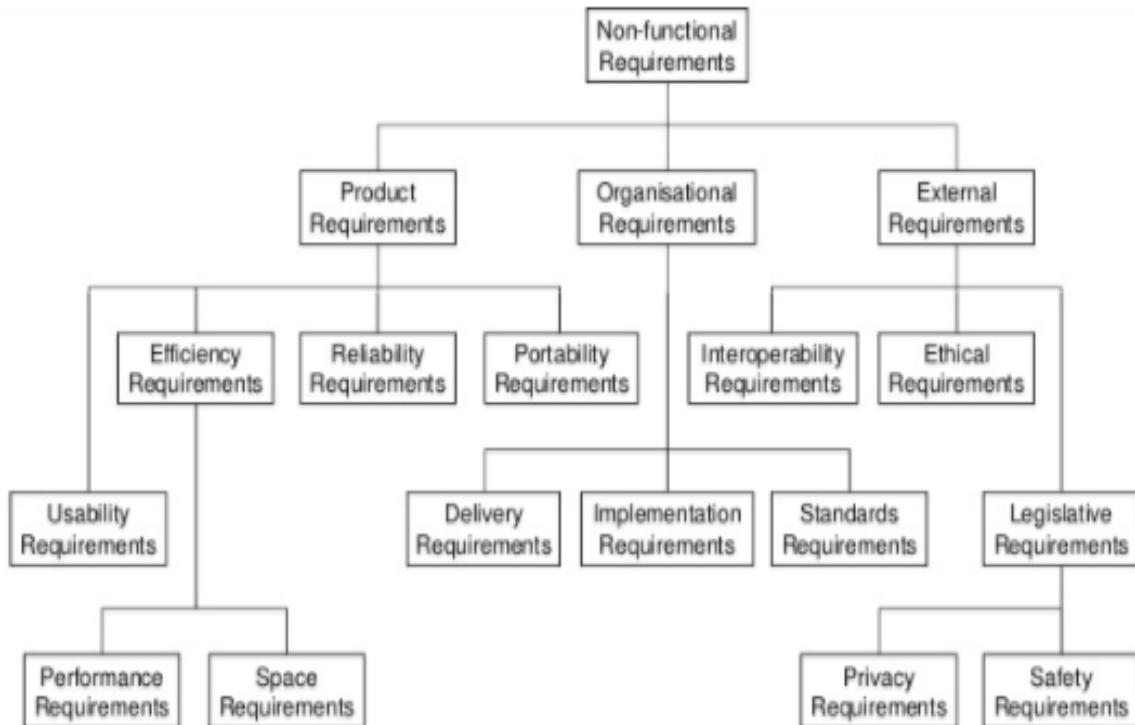


Figure-3

Nonfunctional reference in details are shown

Maintainability

Established for the control the system will provide the services based working which will be defined and updated from the service provider. The workability concerns that are required will be managed by the administrator of the company who will be presented with a controlled link where all types of work in mental ability and establishments can be achieved by providing the requirements as the inputs and each consideration will be saved and will be implemented

Inter operations

All types of operations are performed simultaneously where the references acknowledged in such a way that uses can have synchronization. Multiple operations and processes related to the Imperial statistics analysis can be achieved with the help of the system. All operations will be governed in real time where multiple teams will work and will collaborate.

Compliance

Working compliance and regulations for required to be defined as when each aspect of workability and usage of the resources that are included will be provided the real-time glitches that are faced in terms of regulations can be properly maintained. The Complaints will be documented with detailed regulations and will provide a standard working to the users.

Documentation

The way of integration that is provided within the system where different types of platforms will be utilized for acknowledging the data will be provided with detailed setup understanding so that the users using the system will have a detailed understanding and even the references of other provisions of methodological implementation and other differential output generation will be also declared

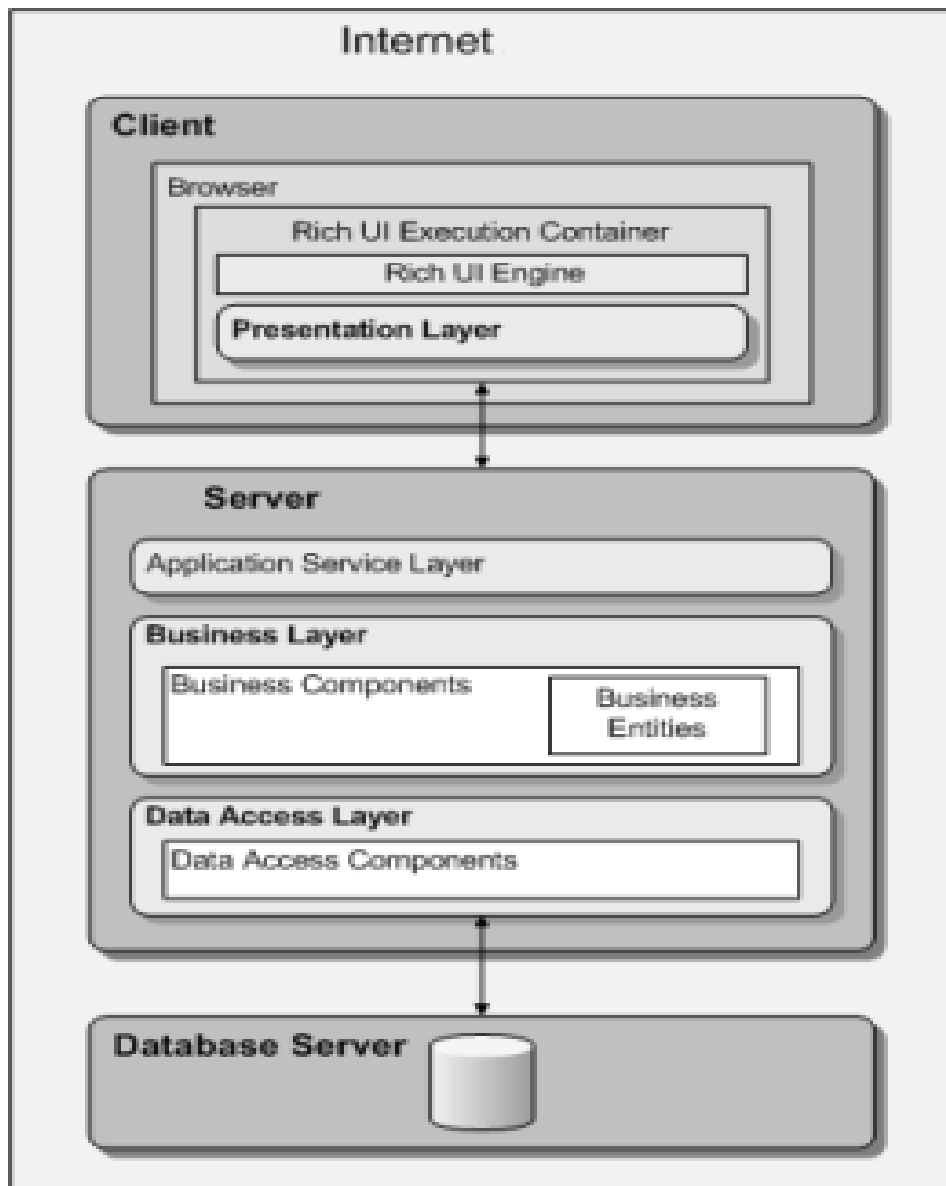
Scalability

System will have defined scalability where all references that are included will be established or we can say that any large data can be analyzed in can be integrated directly to the system. Any number of teams for different types of processes that are required to be maintained can be established

4. SYSTEM DESIGN

4.1 SYSTEM PERSPECTIVE

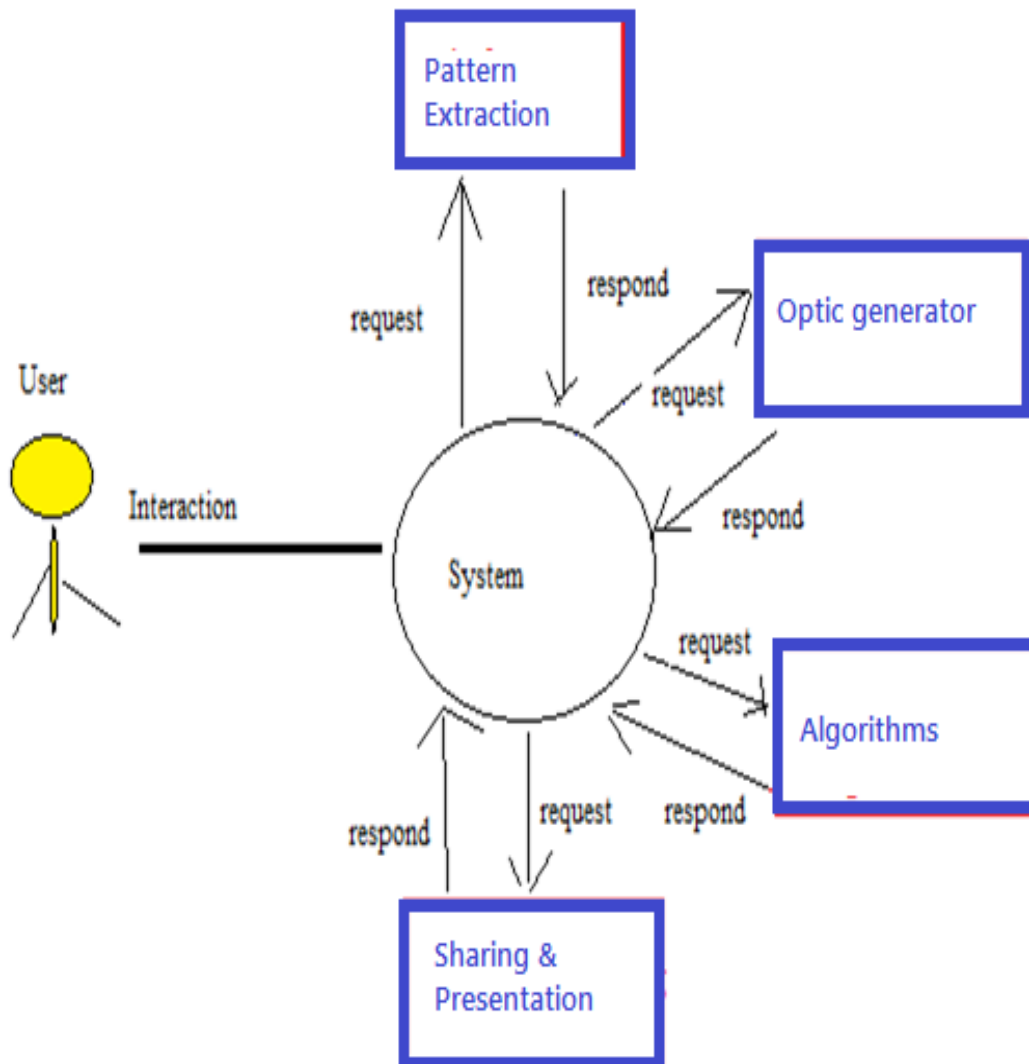
Architecture diagram shows all types of architectural display individualized format for the viewer so that all associated information can be checked at a glance. The referential details can be acknowledged by seeing the architectural diagram



Architecture diagram

4.2 CONTEXT DIAGRAM

To have the reference of the information flow between the external identities and the system with design the context diagram and even the context diagram sometimes is called 0 level dfd where clarify the boundaries of the software system is under taken.



5. DETAILED DESIGN

5.1 USE CASE DIAGRAM

Use case diagram shows all types of interactions and relationships between the user and different types of use cases where the user is involved for the referential usage.



System



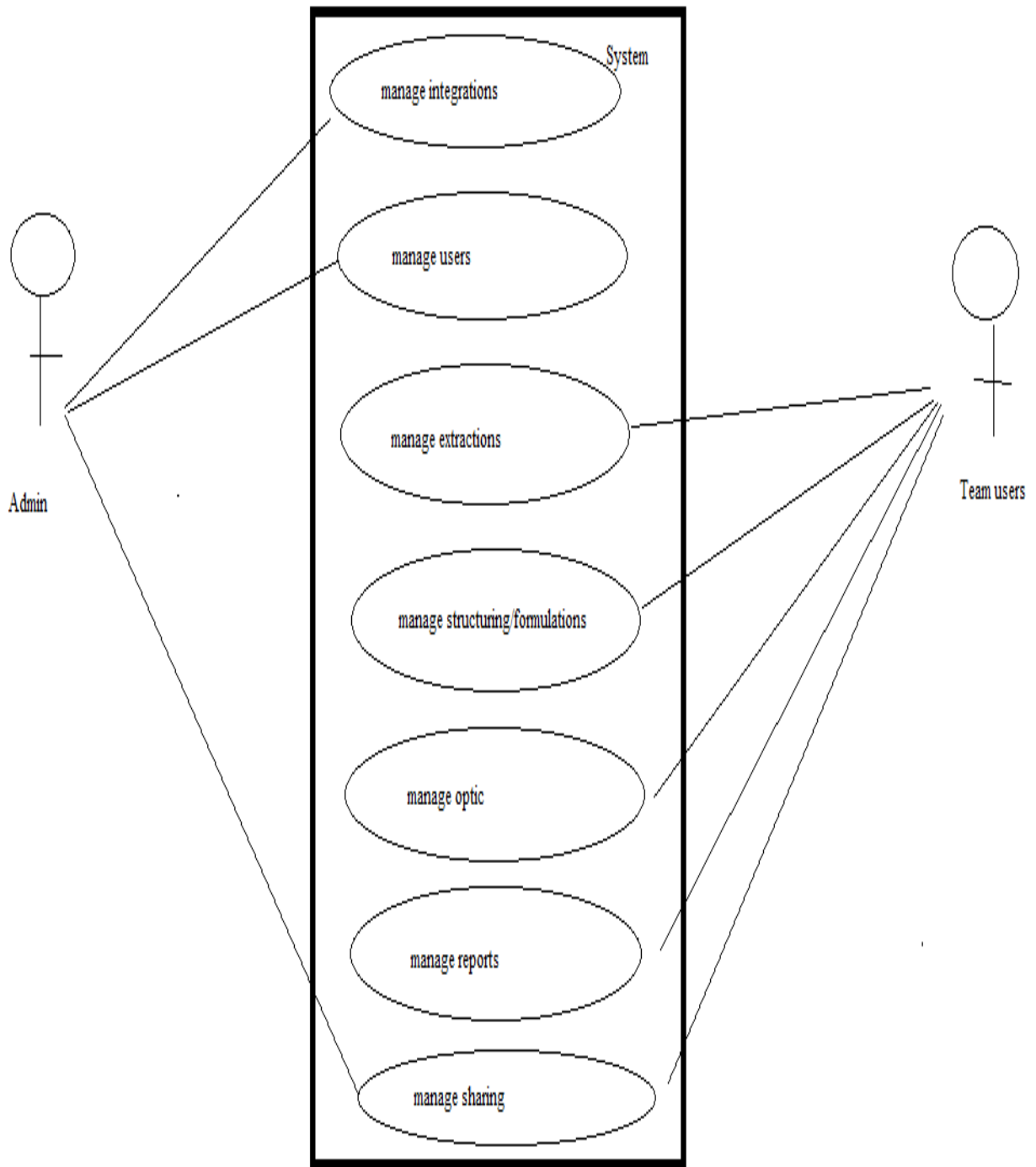
Use case



Actor



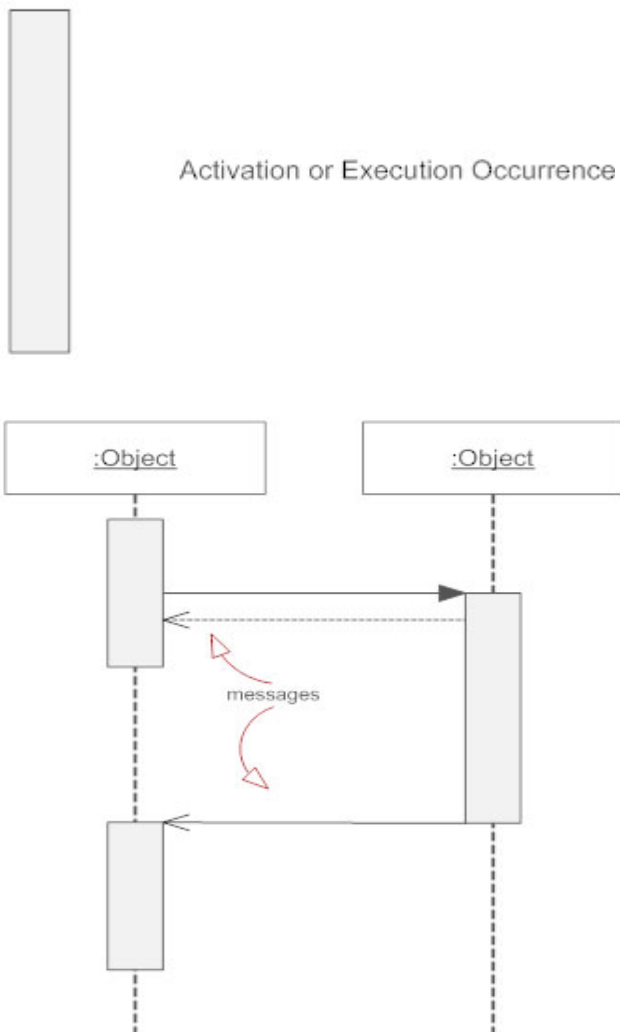
Relationships

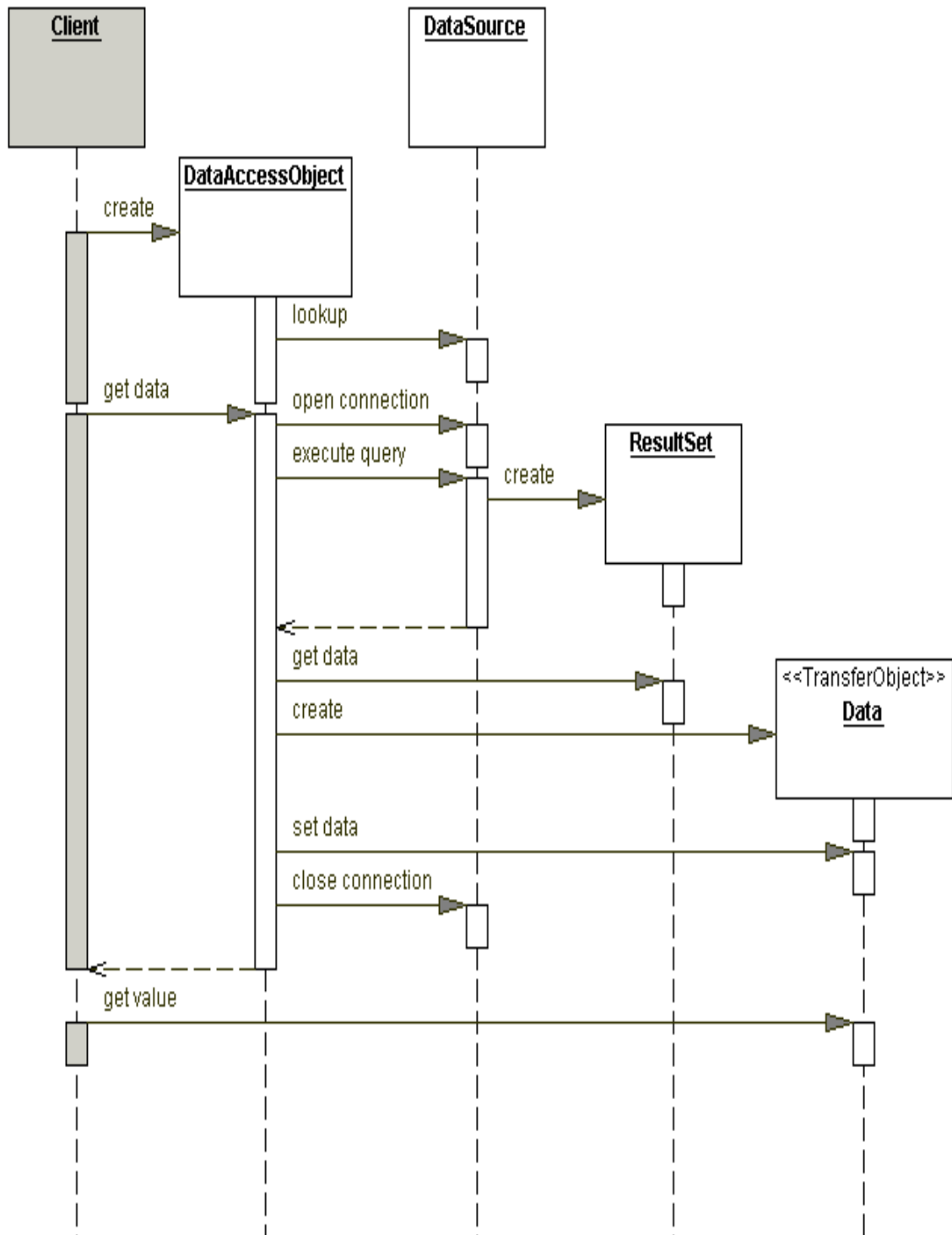


Use Case Diagram

5.2 SEQUENCE DIAGRAMS

Sequence diagram is associated with different types of arrangements based on objects interaction in a time sequence. Sequence diagram also shows the referential message exchange between the objects needs to carry out the function of the scenario which is undertaken

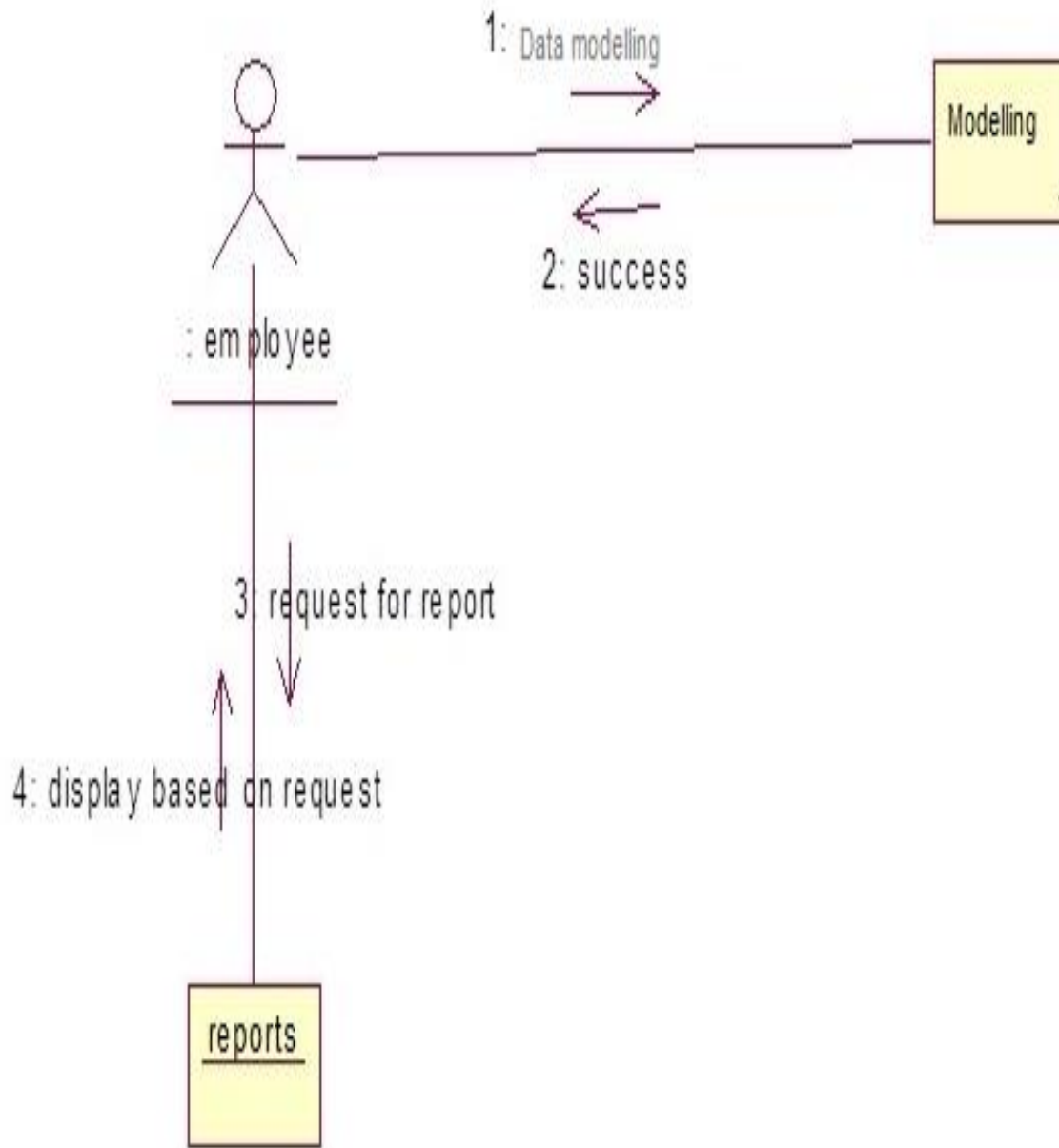




Sequence diagram

5.3 COLLABRATION DIAGRAMS

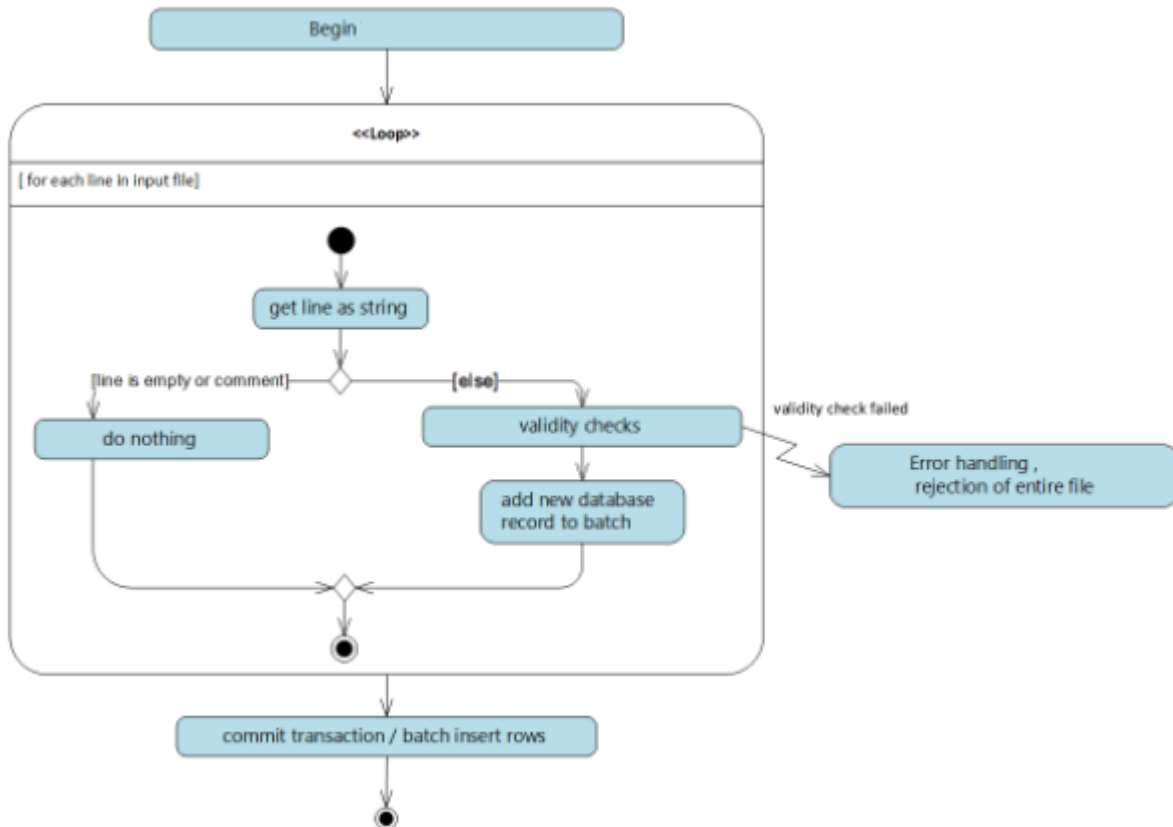
Collaboration diagram is also known as a communication diagram provides different types of relationships and interactions among the software objects and it is illustrated in a detailed format. Complex logic behind operation is visualized with the help of collaboration diagram



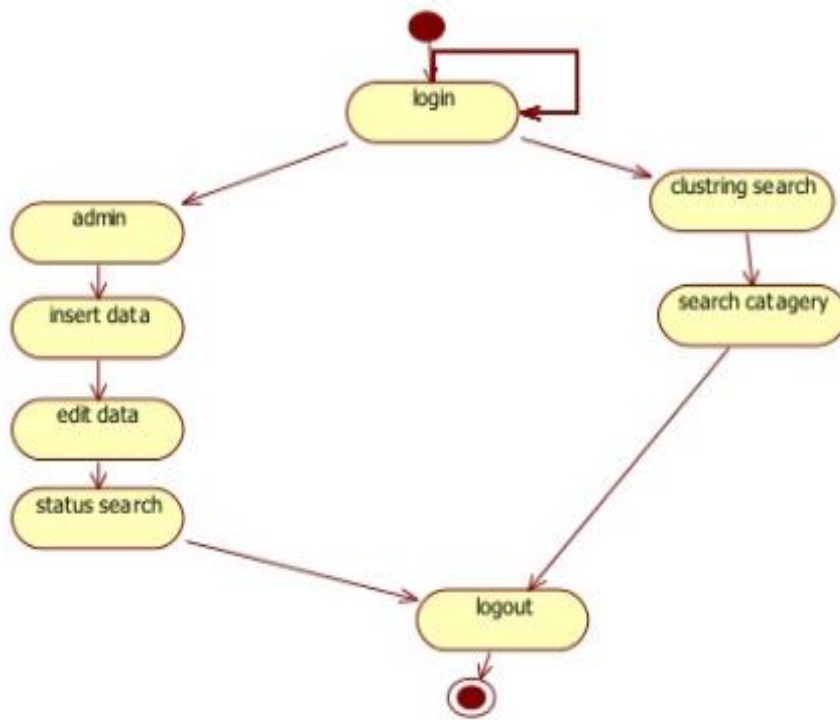
Collaboration diagram

5.4 ACTIVITY DIAGRAM

Activity diagram is design to understand the flow of one activity; multiple sequential branches are related so that all types of flow control can be defined between the elements



Activity diagram (data management)

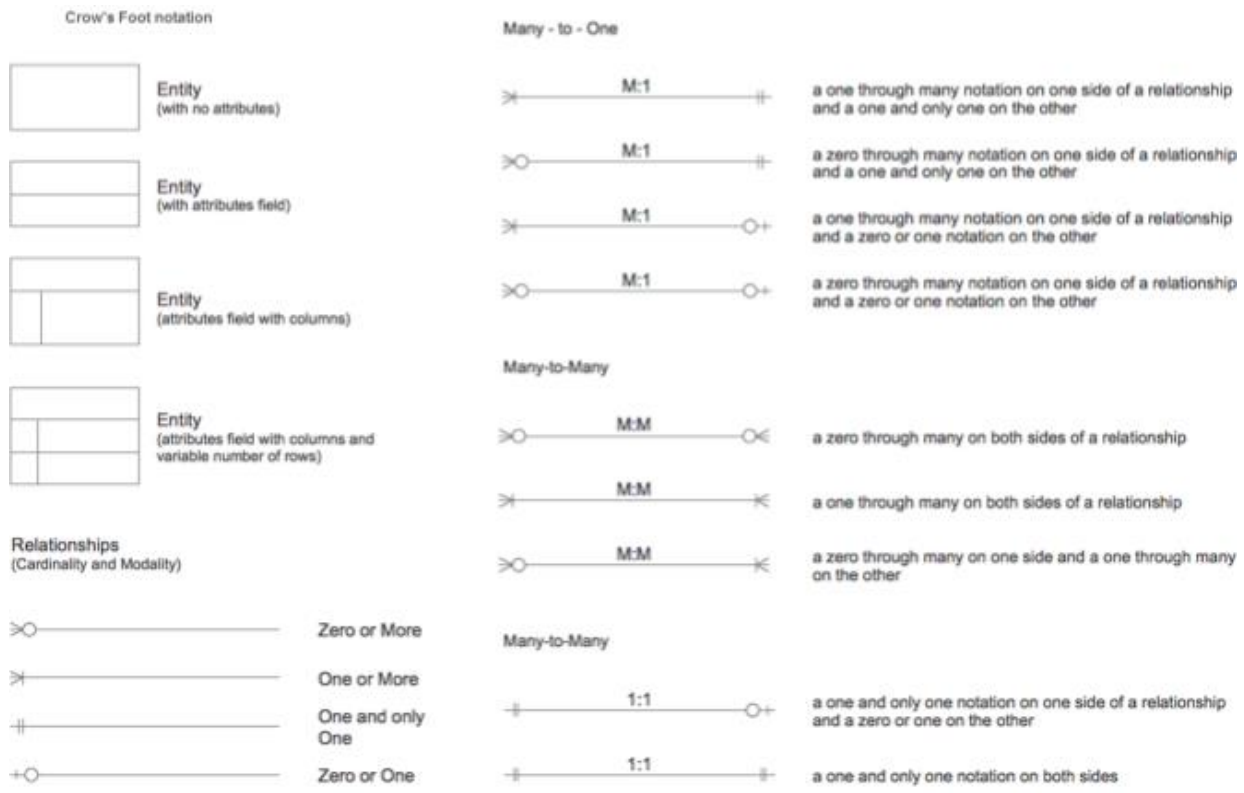
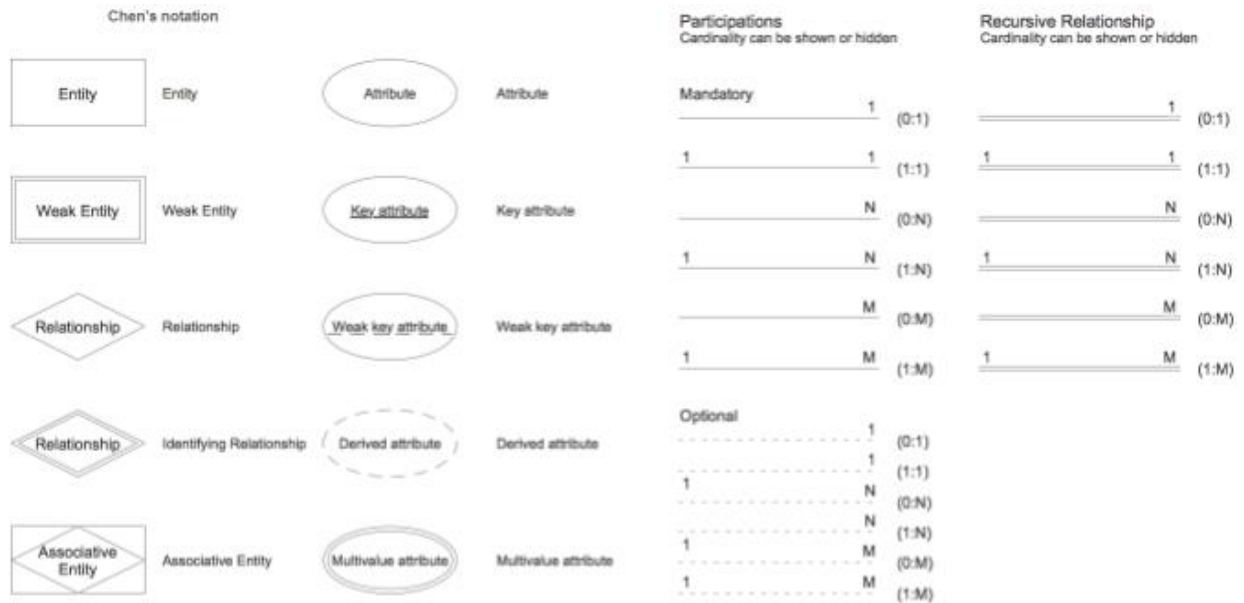


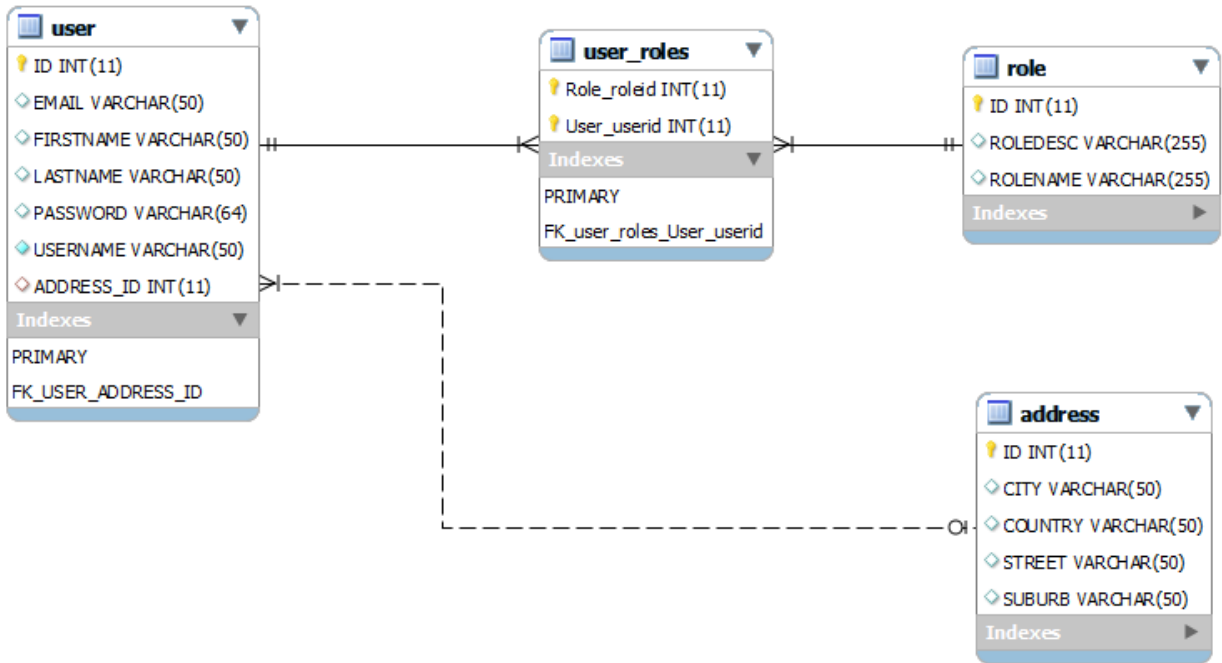
Activity diagram

5.5 DATABASE DESIGN

Entity relationship model

Entity relationship model is a high level conceptual model which helps us to analyze data requirements and it is helpful for well-designed database

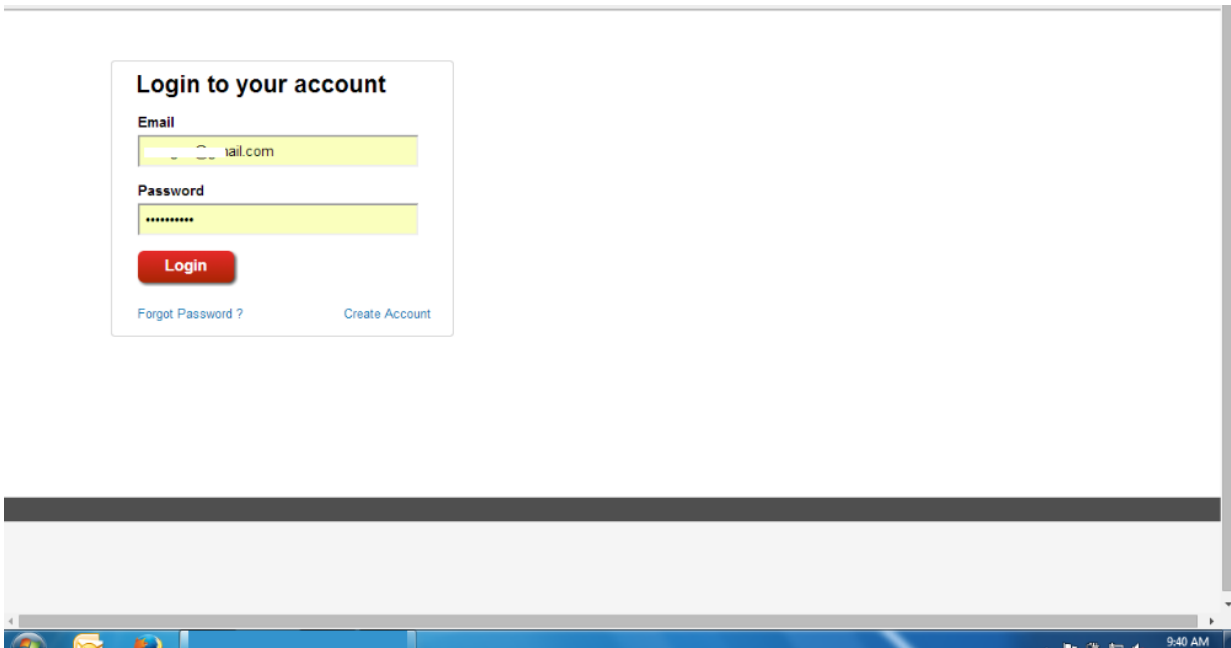




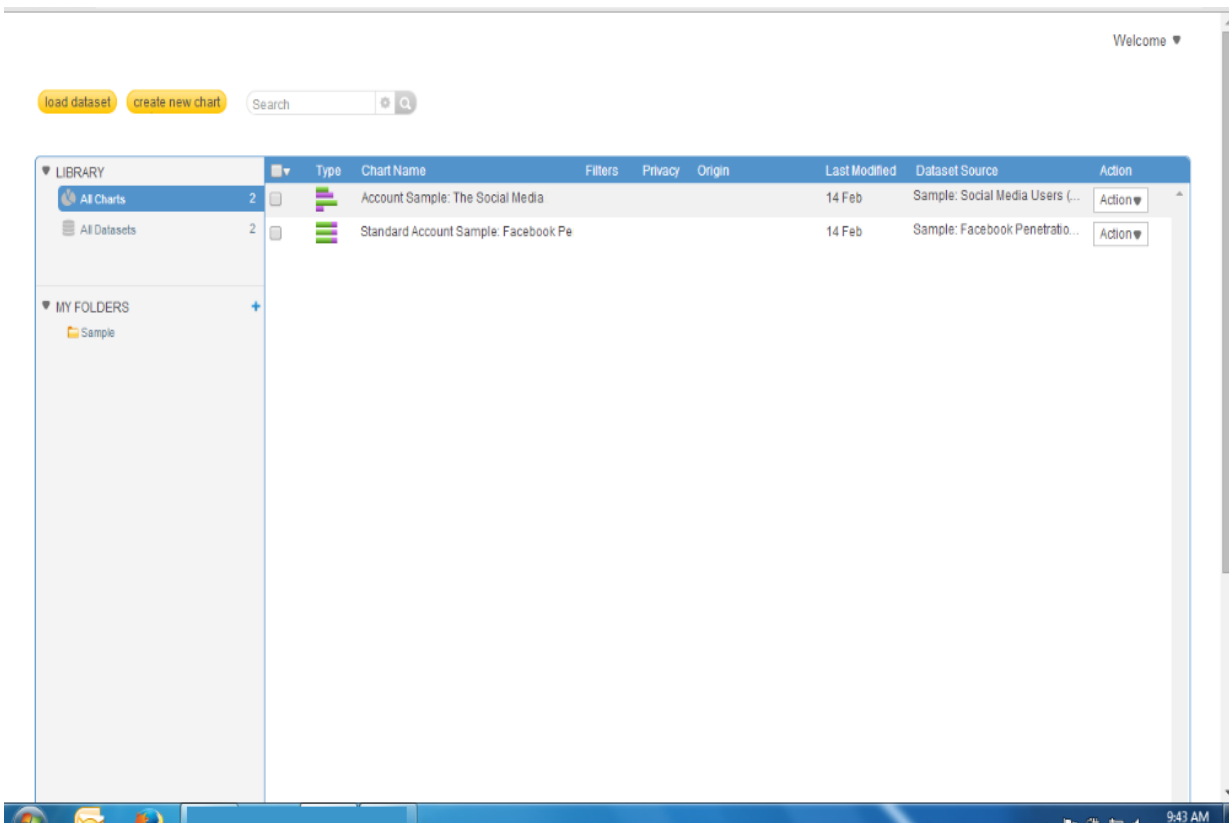
ER diagram

6. IMPLEMENTATION

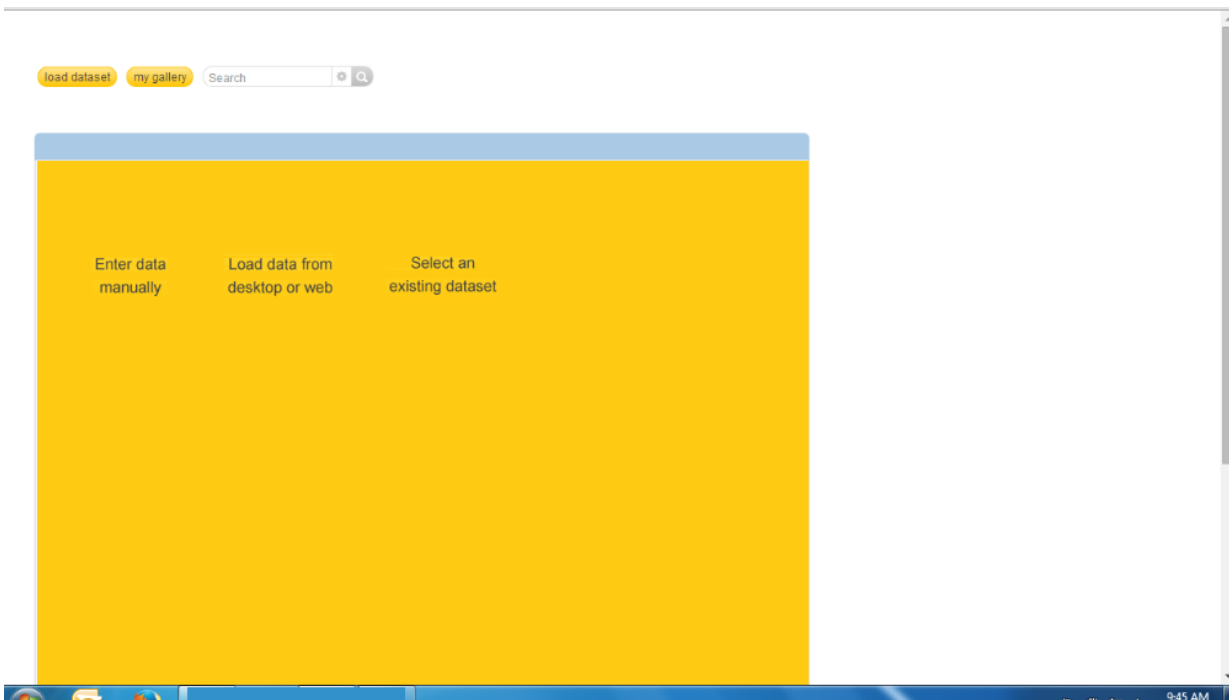
6.1 SCREEN SHOTS



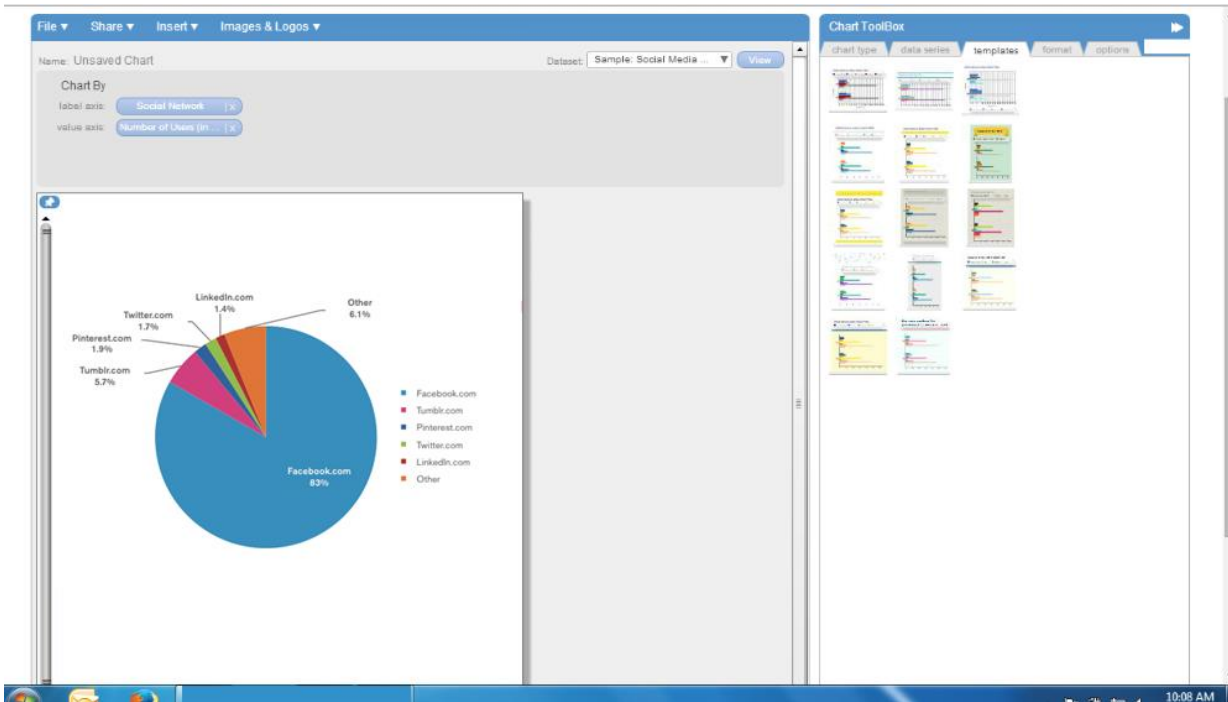
LOGIN PAGE



LOADING DATA (FILES ADDED)



WAYS TO ADD DATA



REPRESENTATION SHOWN, DIFFERENT REFERENCE FOR THE CHART PROVISIONS PROVIDE

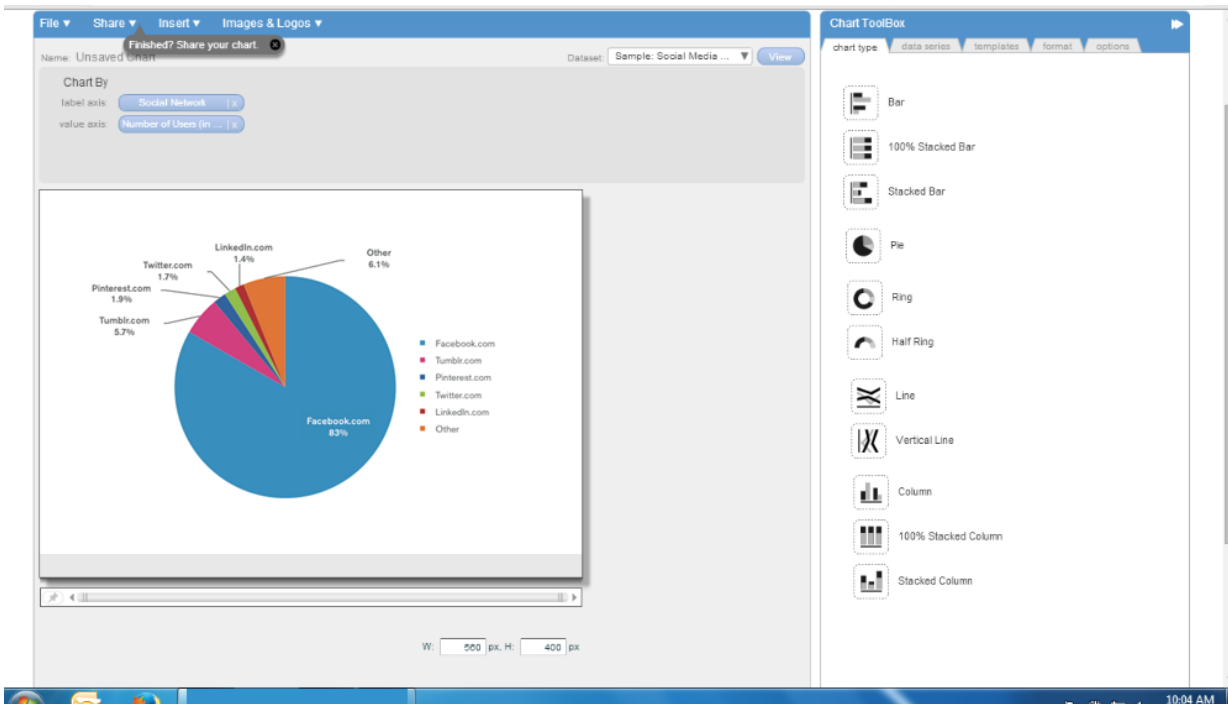


CHART TYPES

The screenshot shows a software interface for editing a chart. On the left, a bar chart titled "Number of social network users worldwide from 2010 to 2020 (in billions)" is displayed. The y-axis is labeled "Number of users (in billions)" and ranges from 0 to 3.5. The x-axis shows years from 2010 to 2020. The bars are yellow with blue outlines. A green rectangular box is drawn over the chart area, and a text box labeled "New chart" is positioned above it. On the right, the "Chart ToolBox" is open, showing various formatting options. The "Comment Text Formatting" section is active, displaying settings for font (Arial, size 20, bold, italic, underline), font color (black), and a "Show Border" checkbox which is checked. The border thickness is set to 4 and the border color is green. Other options include "Transparent Background" (checked), "Background Color" (white), "Show Shadow" (unchecked), and "Assign URL" (empty field).

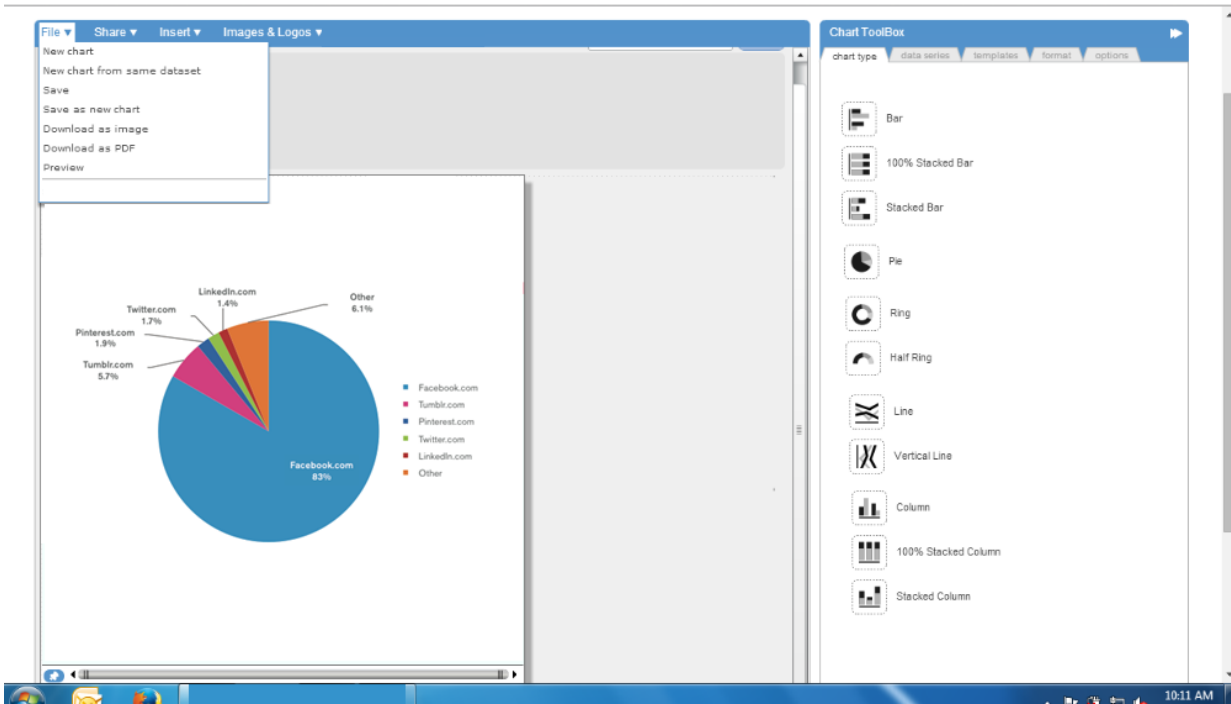
Year	Number of users (in billions)
2010	0.87
2011	1.22
2012	1.4
2013	1.59
2014	1.85
2015	2.14
2016*	2.34
2017*	2.51
2018*	2.67
2019*	2.82
2020*	2.95

FORMATING OPTION(DIRECT EDITING SUPPORT)

The screenshot shows the same chart editor interface as above, but with the "Data Series" panel selected in the "Chart ToolBox". The "Select Data Series" dropdown is set to "Number of Users (in Mn)". The "Fill Color" is blue, "Border Color" is white, and "Border Thickness" is 0. A context menu is open over the chart, listing options: "Format this Bar", "Format Bar Series", "Hide this Bar", "Remove Bar Series", "Format Data Tips", "Show Data Values", and "Format Data Values".

Year	Number of users (in billions)
2010	0.87
2011	1.22
2012	1.4
2013	1.59
2014	1.85
2015	2.14
2016*	2.34
2017*	2.51
2018*	2.67
2019*	2.82
2020*	2.95

FORMAT-2



FILE OPTION PROVIDED

load dataset! my gallery Search

File Share Insert Images

Chart By
label axis: Social Network
value axis: Number of Users (in ...)

Google Chrome

taf

Social Bookmark Blog Email IN

Facebook LinkedIn Twitter

Link http://chartchannel/new-social-sample-chart_nhrvzy5...

Refer

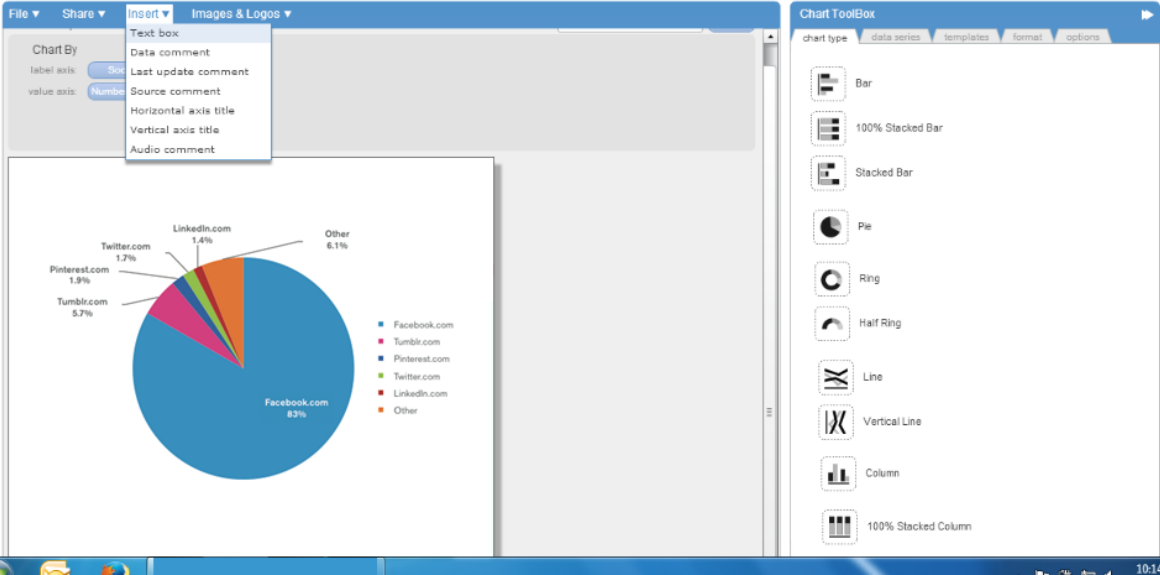
Chart ToolBox

chart type data series templates format options

- Bar
- 100% Stacked Bar
- Stacked Bar
- Pie
- Ring
- Half Ring
- Line
- Vertical Line
- Column
- 100% Stacked Column

10:14 AM

SHARING AND CHANNELS



INSERT OPITON

7. SOFTWARE TESTING

Detecting perceptions are required for the intended environment to be checked for multiple associations that are provided as we require that each and every stage should work in synchronization for providing the prospective statistics and analysis. Software testing will provide the companies to have the acknowledgement based on different consideration for or meeting up the requirements as each and every option that is provided should have the working in such a way that the primary goal of the system can be achieved. Software testing will be done in different ways and this will be decided by multiple testing Associates in collaboration with the software development department.

We have to detect all types of problem by checking the response that is provided by the system when a particular process is being acknowledged show detailed test cases will be written where all types of testing perceptions that are undertaken as inputs outputs and processing will be documented. The software testing is associated with detailed options of provisional working which includes multiple techniques to check the related working for example first the unit perceptions will be checked after which the relational data associations will be check for the integrated working.

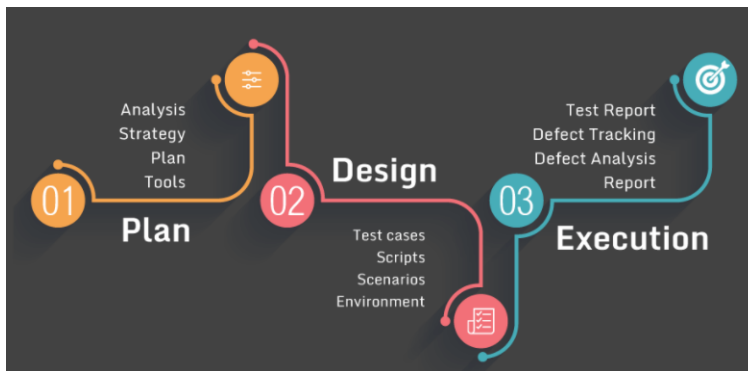


Figure 5

Strategic steps shown in the above diagram

Unit Testing

The unit testing is associated with detailed perceptions of functionalities to be checked in reference that proper guided working of each unit can be established

The unit testing is technologist with individual workability show all the steps that are included within the system will be checked first individually where the direction provided to have the

optimal understanding for the related working for example first the related integration and data retrieval will be checked individually in the same way the references of the data model that have to be implemented will be checked and later on other formations of the graphical display and the publishing will be checked individually

Unit testing is helpful as we can understand the perception properly and even we can locate the problem in more associated way

White Box Testing

White box testing will be promoted in terms of transparency where all the written codes will be checked by the software developer to get more optimized check

White box testing will be performed by the experts and it is required that detailed knowledge should be there to undertake the processes so generally the white box testing will be performed by the software developers involved in the development of the system

Test Cases

Series	Test-cases	Test-Input provided	Results	Actual-result	Test Status	Severity
1	Administrator	Credentials provided	Admin setups provided	Control set for the working	Pass	Critical
2	Stage setups	Options based	Space added	Integrated stage added	Pass	Critical
3	Teams	Provided users details	Access provided	Working access provided	Pass	Major
4	Data source addition	Selection based	Multi options provided	Source setups made to work	Pass	Critical

5	Model generation	Selections and add-ups	Options provided	Model data presented	Pass	Critical
6	Integration formats	Selective	Different formats to select	Supports different integrated data formats	Pass	Critical
7	Notice	Automatic	Notice added	Message generated	Pass	Moderate
8	Graphs	Selective	Should be converted	Different optic details fetched	Pass	Critical
9	Charts modification	Selection based	Various charts based modifications seen	Seen modification	Pass	Critical
10	Data updating	Automated	Source based updating	Sync seen	Pass	Critical

8. CONCLUSION

We can conclude that operations related to quantitative analytics and statistics is well defined in the system which promotes multiple stages of working and relates synchronization. The system is designed for the direct channel based working which includes multiple incorporated platforms which will be utilized by the users in different levels of work as for the basis of the statistics multiple variations are required so the system is being design to support and provide the compatibility in terms of all types of integrations required. The systematic establishment of different platforms for getting the information is also seen where the selections are made according to the user's choice and in reference all types of settings are promoted by the system. As the system provides the workability phases each option will be required to have different types of settings which will be included in such a way that it the walkability can be properly understandable. We also found that the establishment of the conversions that are required for settling the detailed data modification based on different types of data science methodology is also supported and it can be established with simple selective processor.

9. FUTURE ENHANCEMENTS

For providing better services to the customer it is required that all types of sections should be understood and the references should be defined with objectified understanding so all the preferences that may arise in the future will be properly outlying and will be established for the modifications that will be provided at least to the client.

Some of the future enhancement prospectus that has been discussed is listed below-

Those integration methods that are provided will be elaborated with the help provision for every mechanism making it easier for the users to understand

The updating and the modification that are provided should be also notified to the users so that they can also acknowledge when the data has been modified

Resources that are associated with the working can also be collaborated by providing more compatibility

APPENDIX A

Java

- "The Arrival of Java 14!". Oracle. March 17, 2020. Retrieved March 17, 2020.
- "Binstock, Andrew (May 20, 2015). "Java's 20 Years of Innovation". March 18, 2016.

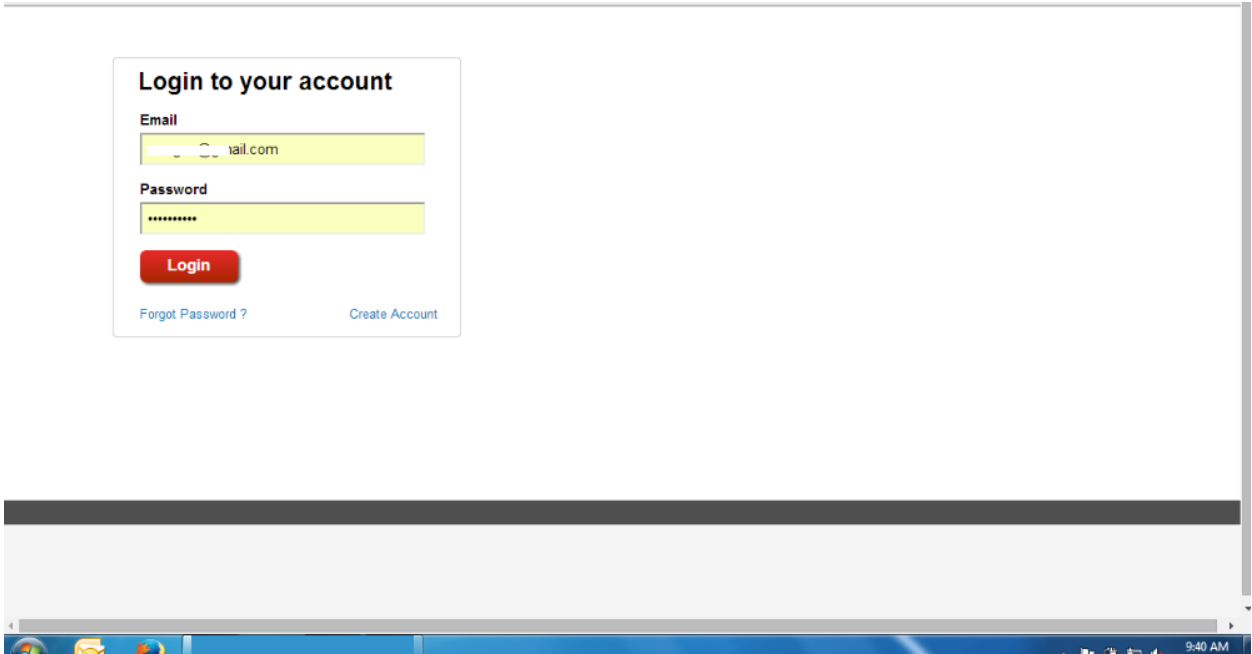
BIBLIOGRAPHY

Web referrals-

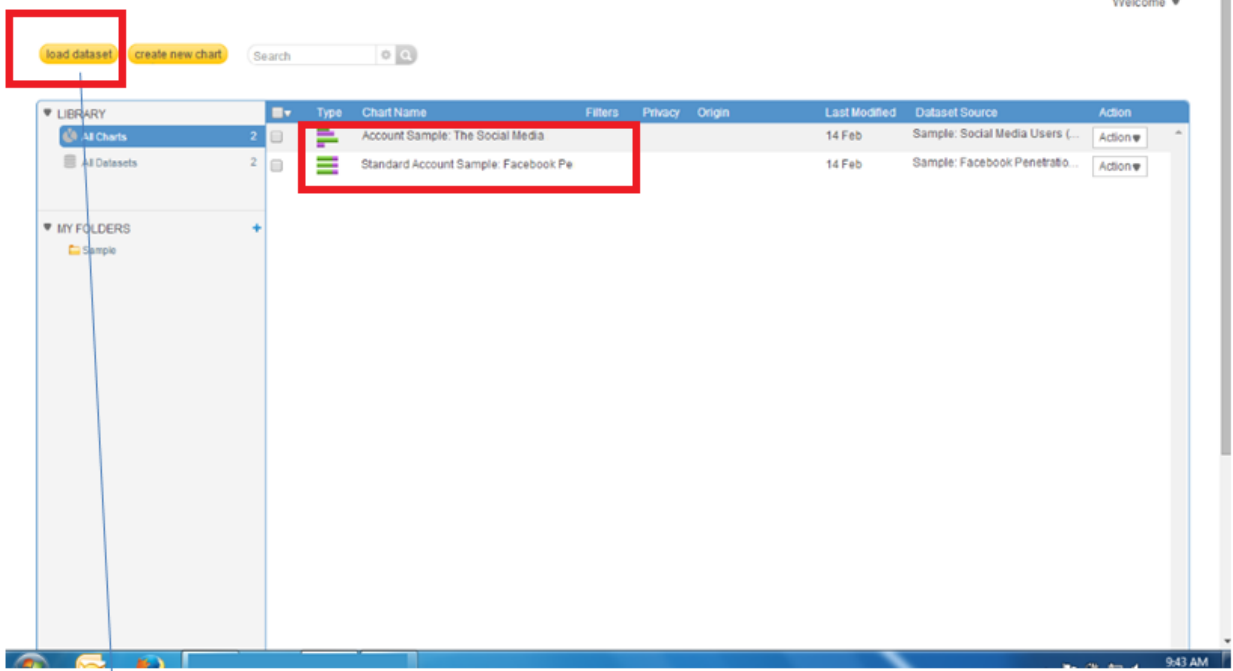
- www.wikipedia.com
- www.scribd.com
- www.microsoft.com
- www.google.com

APPENDIX B

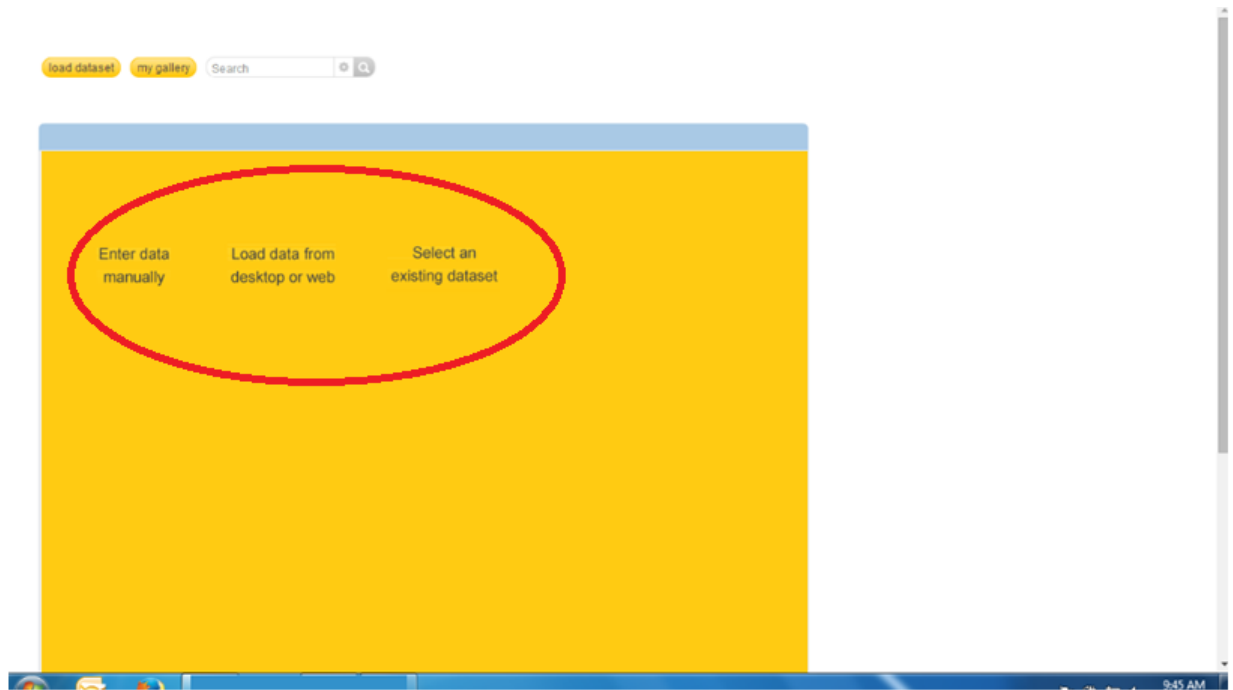
USER MANUAL



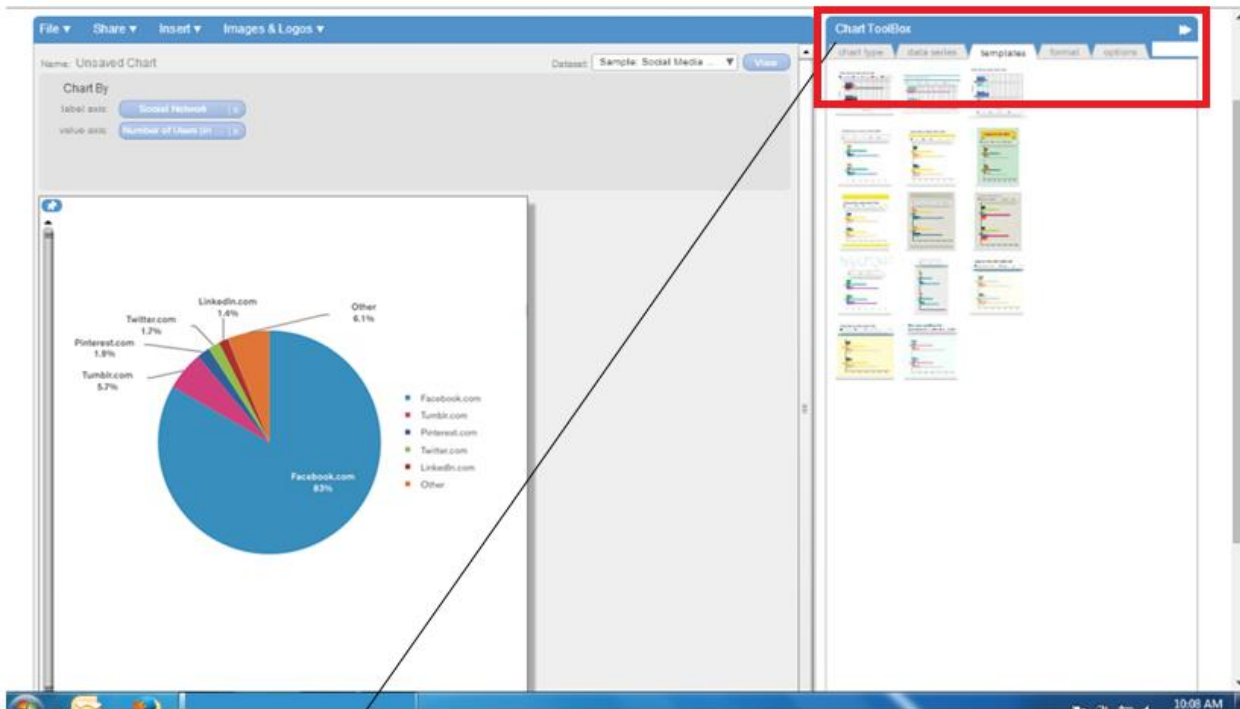
Login considerations



Loading data (files added)



Ways to add data



Representation shown, different reference for the chart provisions provided

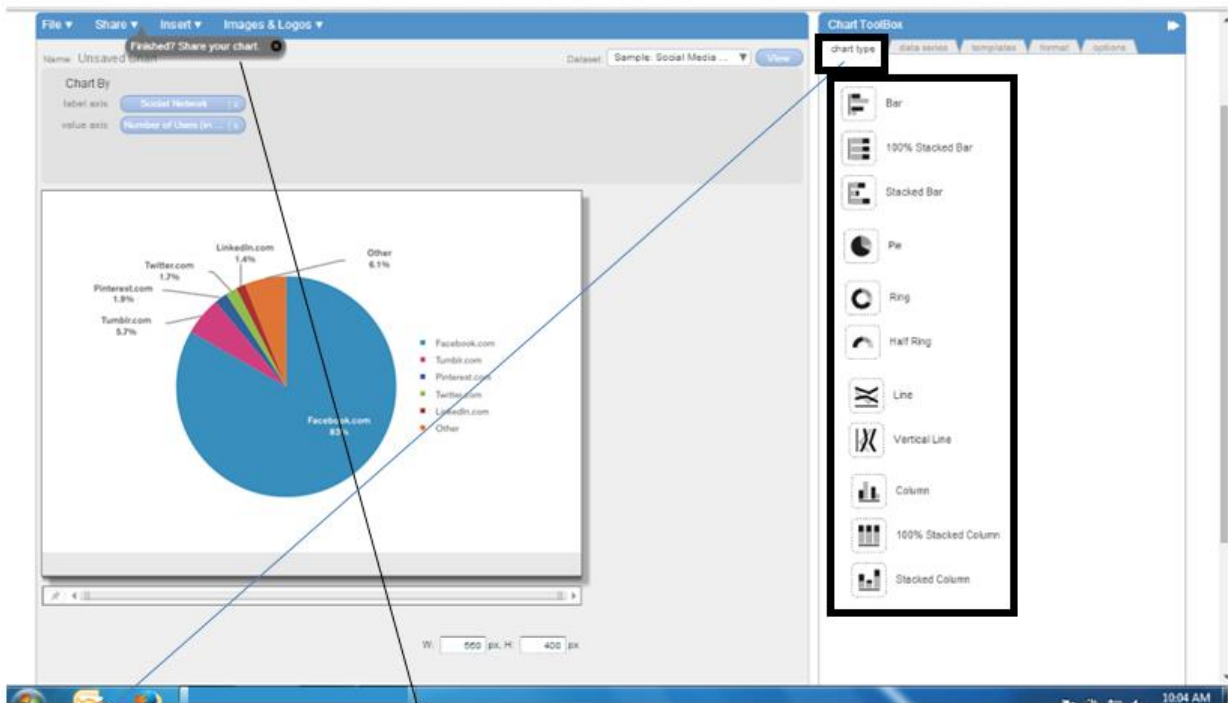
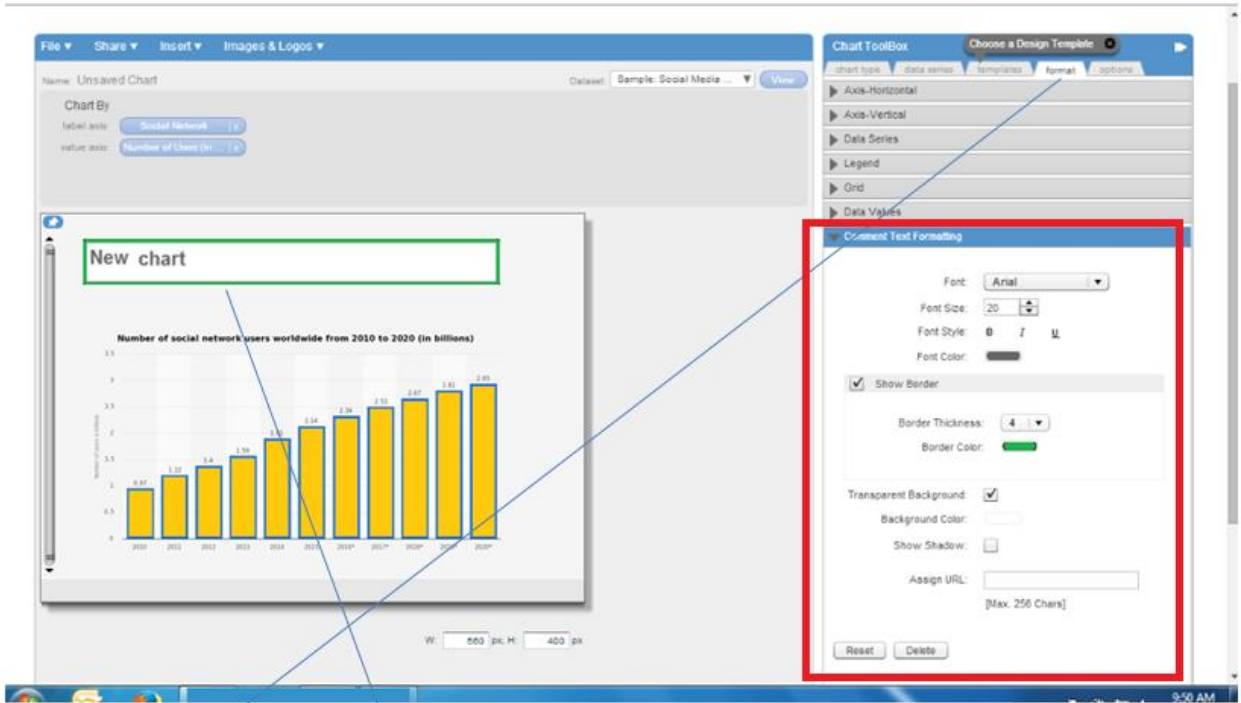
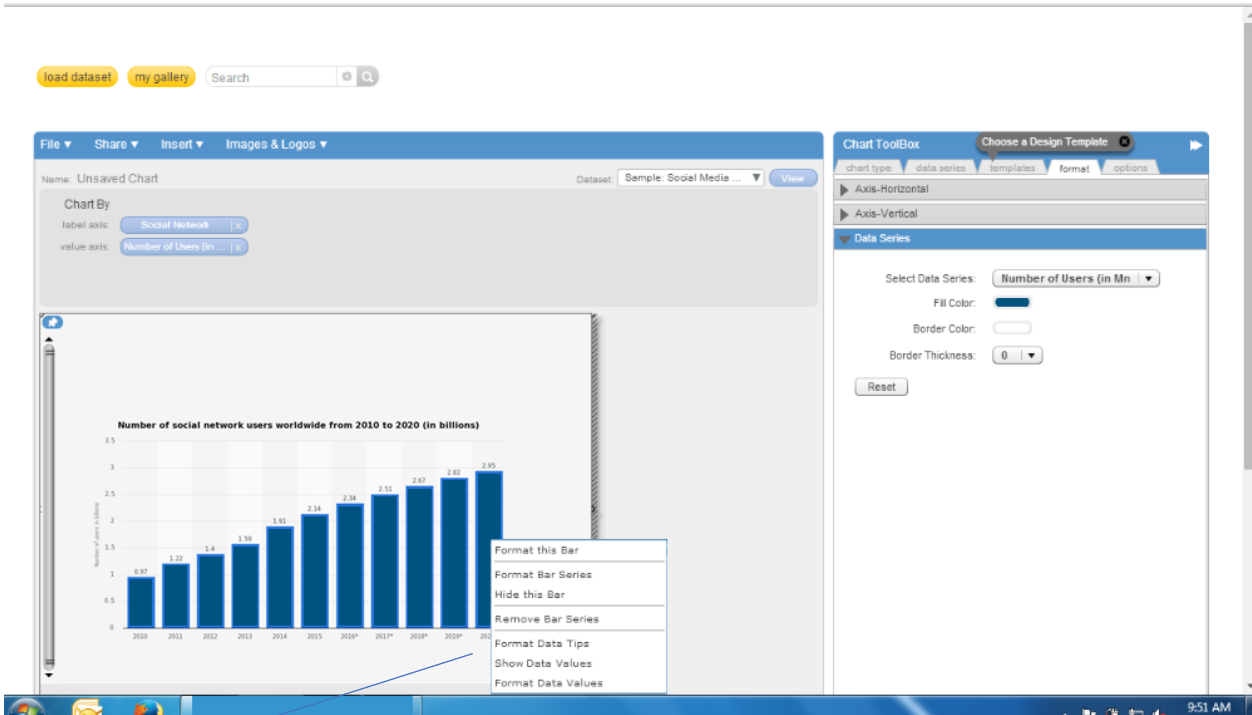


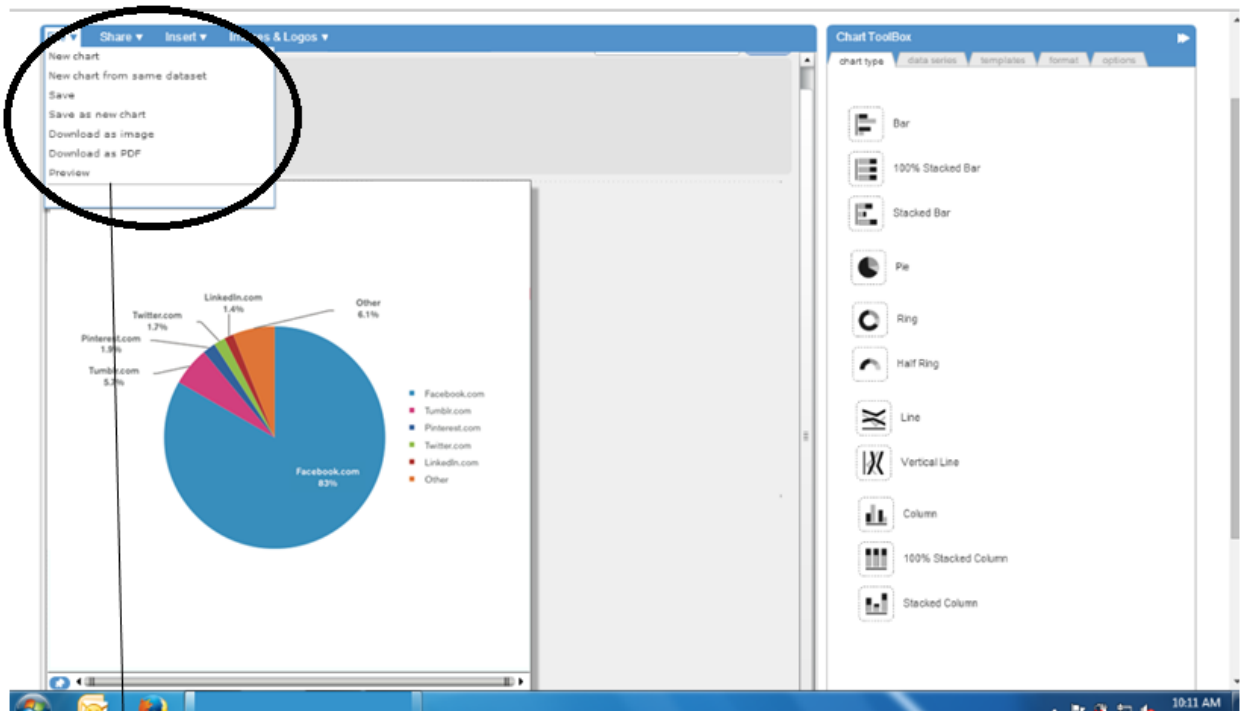
Chart types shown and information popups



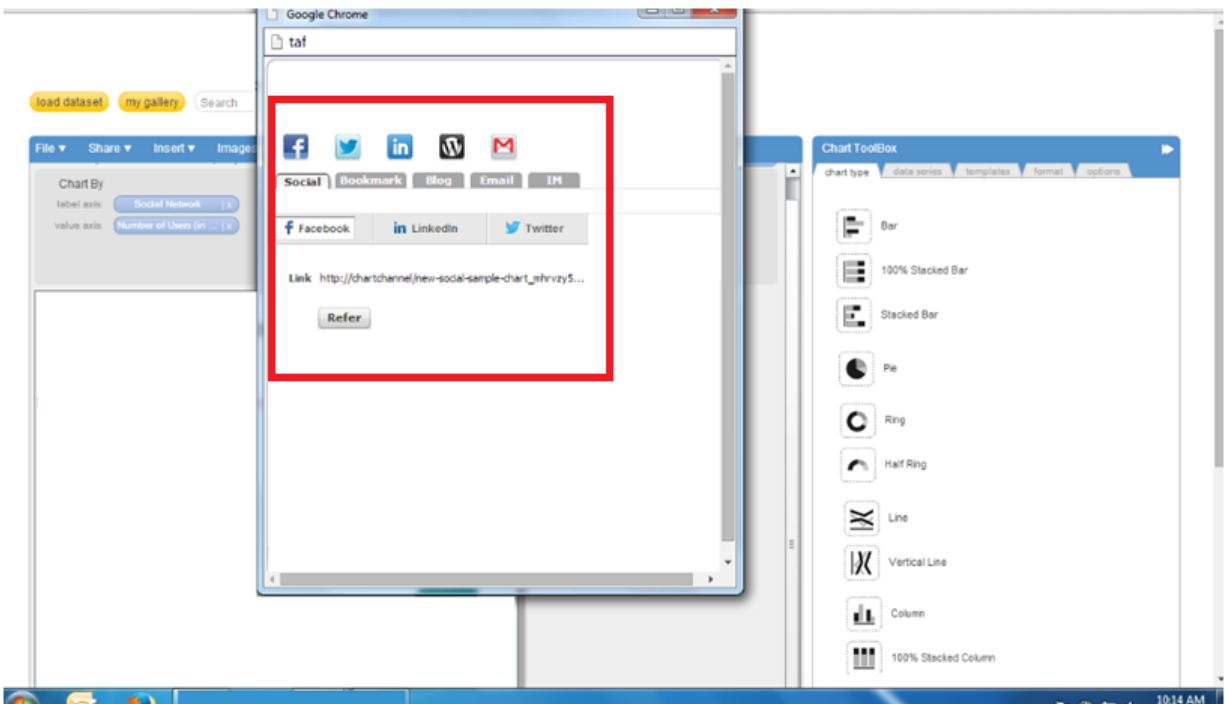
Formation options (direct editing supported)



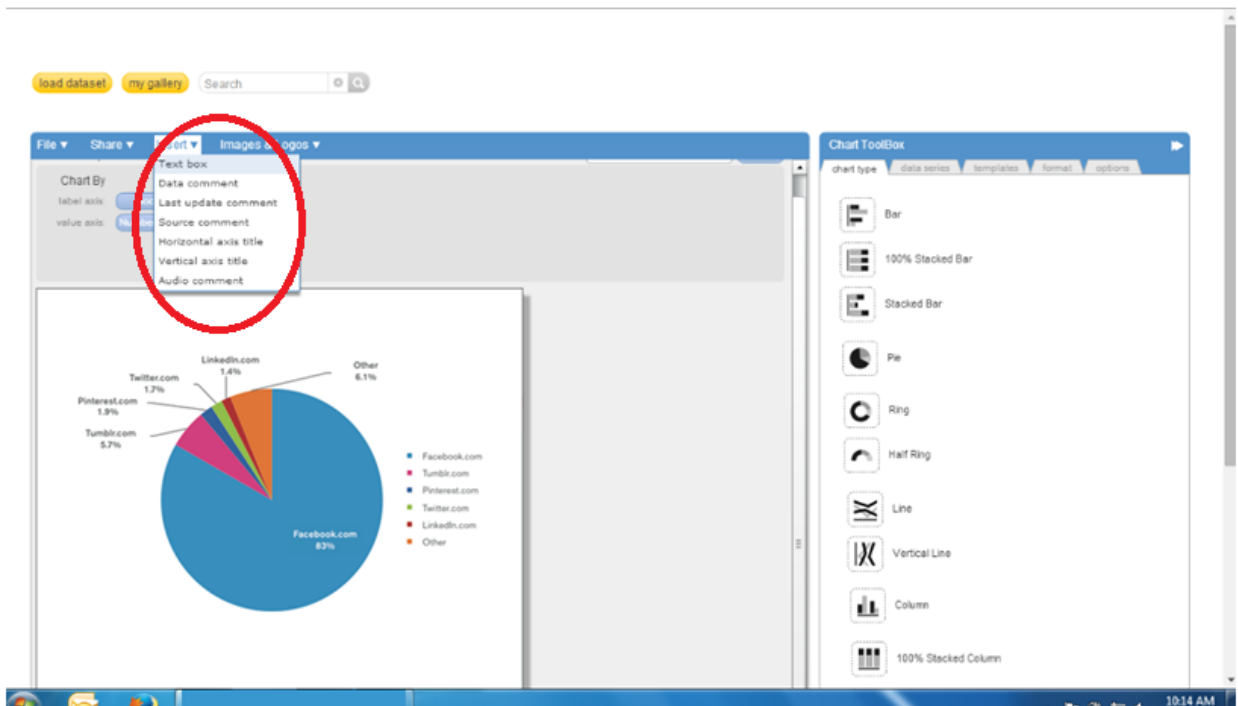
Format -2



File options provided



Sharing and channels shown



Insert option shown