A project report on

Privacy Preserving Data Mining Methods

Submitted in partial fulfillment of the requirement

the award of the degree

MASTER OF COMPUTER APPLICATIONS

Of



Visvesvaraya Technological University Belgaum, Karnataka

By

VINAY KUMAR K 1CR18MCA99



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

An Project Report On Privacy Preserving Data Mining Methods

Submitted in Partial Fulfillment of the Requirement for the award of degree

Master of Computer Applications Of VISVESVARAYA TECHNOLOGICAL UNIVERSITY JNANASANGAMA BELGAUM-590018

> *By* VINAY KUMAR K 1CR18MCA99 Under the guidance of

Internal Guide Mrs.Moumita Roy Asst.Professor MCA Department Bangalore. External Guide Ms. Asma Qureshi TEAMLEADER Nfinity Infotech Bangalore.

CMR Institute of Technology



132, IT Park Road, AECS Layout Kundanahalli. 2019-2020

CMR INSTITUTE OF TECHNOLOGY

Department of Master of Computer Applications

Bangalore - 560 037



This is to certify that the internship work entitled

Privacy Preserving Data Mining Methods

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

is a result of the bonafide work carried out by

VINAY KUMAR K

1CR18MCA99

during the academic year 2019-2020.

Signature of the Guide

Signature of the HOD

Mrs.Moumita Roy Asst.Professor, MCA Mrs.Gomathi.T HOD, HoD Signature of the Principal

Dr. Sanjay Jain PRINCIPAL

External Viva

Name of the Examiners Signature with date

1.

2.

DECLARATION

I, VINAY KUMAR K Student of 6th MCA, CMR Institute of Technology, bearing **USN 1CR18MCA hereby** declare that the Internship Work entitled "**Privacy Preserving Data Mining**" has been carried out by me under the supervision of External guide Ms.Asma Qureshi Project TEAM LEADER and under the guidance of internal guide **Mrs. Moumita Roy** Dept. of Master of Computer Applications, CMR institute of Technology, and this internship Work is 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 2020. This report has not been submitted to any other Organization/University for any award of degree or certificate.

Place: Bangalore Date:

VINAY KUMAR K (1CR18MCA99)

ACKNOWLEDGEMENT

The beautiful fragrance that accompanies completion of our project task would be incomplete without the appreciation to the people who made it possible. However, words are not enough to express the sense of gratitude to everyone who helped us directly or indirectly. First and foremost, we would express our sincere gratitude to our beloved principal. Dr. Sanjay Jain for the strong encouragement in bringing out this project. I am grateful to Prof. Gomathi T, HOD of MCA Department who spared her time in pursuing us in doing the project. I also extend our regards to our project guide Prof. Moumita Roy Asst Professor, Department of MCA for his timely guidance, painstaking attention and suggestion at every stage during my project.

Last but not least I wish to express our gratitude to my family members, friends and all the well-wishers who stood behind me.



Project Completion Certificate

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Vinay Kumar K from your college with Roll no -ICR18MCA99 has successfully completed the project work of MCA. Project entitled "Privacy preserving data" at our organization from Feb 2020 to June 2020.

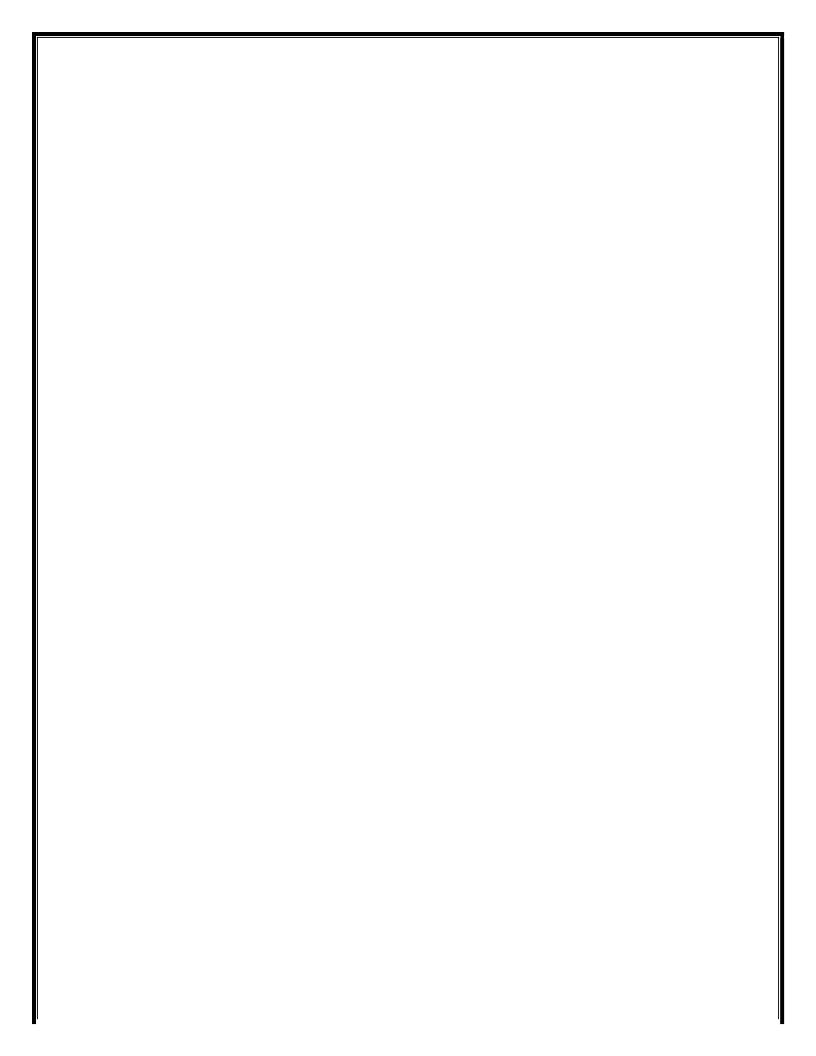
We wish him all the best in his future endeavors.



Asma Qureshi HR Manager Nfinity Infotech Pvt Ltd Bangalore

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SL.NO	Contents	Page No.
1.	Introduction	1
	1.1 Project Description	1
	1.2 Company profile	2
2.	Literature Survey	4
	2.1 Existing System and proposed System	4
	2.2 Feasibility Study	6
	2.3 Tools and Technologies Used	7
	2.4 Hardware and Software Requirements	14
3	Software Requirement Specification	15
	3.1 Users	15
	3.2 Functional Requirements	17
	3.3 Non-Functional Requirements	19
4	System Design	22
	4.1 System Perspective	22
	4.2 Context Diagram	22
5	Detailed Design	23
	5.1 Use Case Diagram	23
	5.2 Sequence Diagram	27
	5.3 Activity Diagram	31
6	Implementation	34
	6.1 Screen shots	36
7	Software Testing	46
8	Conclusion	50
9	Future Enhancements	51
10	Bibliography	52





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PART-B

INTRODUCTION

1.1 Project report

To get-together and examination of data is always getting to be a result of the unavoidability of preparing devices. The examination of such information is developing associations and contributing profitably to the overall population in a wide scope of fields. Regardless, this storing and stream of conceivably sensitive data presents certified insurance concerns. Methodologies that grant the data extraction from data, while sparing security, are known as Privacy-Preserving Data Mining (PPDM) strategies.

This work audits the most critical PPDM frameworks from the composition, the estimations used to survey such systems and presents normal employments of PPDM methods in significant fields. Also, the present challenges and open issues in PPDM are discussed. In the present information age, inescapable and unavoidable preparing is tirelessly making a great deal of information. The examination of this data has had all the earmarks of being useful to a store of organizations, for instance, social protection, banking, computerized security, business, transportation, and various others.

The degree of security can be divided into four orders that are information, which concerns the managing and aggregation of individual data; considerable, which relates to physical harms from prominent techniques; correspondences, which insinuates any type of correspondence; territorial, which concerns the assault of physical breaking points. This work will focus on the information class, which incorporates structures, which, research and circulate data.

1.2 Company Profile1.2.1 Nfinity Infotect Pvt Ltd

Nfinity Infotech was established as a product advancement start-up in 2017 by a gathering of youthful lovers with an emphasis on doing some legit and authentic work in Data Innovation. Right off the bat in the business while business techniques being examined, the basic inquiry was raised.

We made client centre our core value. We trust that a fulfilled client is the best business system of all. From those underlying development years to vast scale extensions, "client centre" has been vital for us. Addressing the requirements of the client and their prosperity despite seemingly insurmountable opposition has been our prosperity mantra.

Today, Future Arrangements is a main IT benefits, counselling, and reappropriating organization helping organizations influence advances, beat their opposition, and secure practical development. We have demonstrated abilities in new and rising advancements and broad experience over an expansive scope of enterprises and spaces, which empowers us to convey world-class, secure, adaptable, and solid business arrangements.

Corporate Integrity

In an exceptionally aggressive industry, we perceive that holding fast to the most abnormal amount of direct in serving our customers worldwide and acting with trustworthiness consistently is of most extreme significance. Future Arrangements' far reaching fundamental beliefs and gauges of business lead are trailed by everybody in the group, without a special case.

Our administration group has figured and kept up a solid moral work environment condition, supervised by a Free Corporate Administration Board of trustees moving representatives to pursue the most elevated guidelines of individual and corporate lead.

Services

New advancements have realized a change in how business is performed today. As business needs today centre more on adaptability, procedure, execution, and separation, the test for IT suppliers is to convey administrations that coordinate these needs while conveying unmistakable business results. Future Arrangements causes you accomplish these business esteems while adjusting IT to your key business activities.

Chapter 2

LITERATURE SURVEY

2.1 Existing and Proposed System

2.1.1 Existing System

In active structure the data disseminating, taking care of and upkeep is the problematic action for the data. In restorative centre the board system the nuances of the patients and his prosperity condition of the reports are keeping up by the crisis facility chairman. In any case, the medicinal facility has more branches and each branch having all the more ace authorities and every master having n number of patients. All of the nuances are kept up by the chairman. The keep up the database for the data's, yet that database isn't checked. At whatever point the data may be incidents in perspective on illegal software engineers and structure inadequacies. Unapproved individual can without quite a bit of a stretch handle the data viably. So these are the rule disservices in the present structures.

Advantage:

- Less data security
- Data dissatisfaction may happens
- High cost for data support
- Long time for data getting ready.

2.1.2 Proposed System

In planned structure to ensure security at data gathering time, the substantial device changes the unrefined data by randomizing they got characteristics, before sending to the expert. The supposition is that the substance assembling the data isn't to be trusted. Randomization must be performed independently for each gotten regard. The data is balanced by using the randomization method. The data in the database makes security by using the PPDM computation. In this count, the security level, data quality

and flightiness of the data is assessed by using estimations. These methods are moved up to confirm the remedial data and make security defending in the database.

Advantage:

- 1. Inquiry the particular events using watchword look.
- 2. Client can see the slanting accounts of each and every social affair.

2.2 Feasibility Study

The likelihood examination of this manage with is bankrupt down in the midst of this stages and strategic agreement domain unit proceeded with a most expansive making methods for the endeavour and a few huge worth estimation. Inside the period of structure examination, the Probability considers is finished by the orchestrated system. This is every now and again to avow this masterminded system isn't weight to the association and for centrality concerning the basic necessities for the goliath structure.

Tools and Technologies used

Outline of Java

Java is erroneously in lightweight of C++ history structure, associate degree is should have been Article Situated Structure of java is a couple of spot between a deciphered and an aggregated tongue. That region unit verifies and obliging transversely over various stages totals Java programs.

Facial appearance of Java app

- It is a direct tongue. It doesn't make use of pointers, limit over-disturbing and whatnot.
- Java is article planned vernacular and sponsorships outline, legacy, Polymorphism and half official, in any case doesn't fortify unmistakable legacy.
- > All things in java is a composition a board some crude information types.
- ➢ It is helpful. Scattered in its thinking.
- ➢ Half in nature. It is vivacious, verified.
- It bolsters multi stringing. Thusly specific pieces of the endeavour can be executed in the interim.

Batch updates

The group update characteristic allow an appliance to display various upgrade enunciations (insert/overhaul/eradicate) in a lone sales to the database which can give an enthusiastic addition in execution when a broad number of upgrade clarifications ought to be executed

Java.Util

Information structures that all out things are the focal point of the Java.Util group joined into the bundle is the aggregations Programming interface and dealt with data structure movement affected seriously by setup configuration thought.

Java.Security

It gives the module and interface to security structure. It fuses module to realize simply configurable, well grained admission control safety designing. The pack similarly supports a time and limit of cryptographic open key sets. Finally this pack gives classes that bear stamped/watched challenges and protected subjective number.

Eclipse

This is an IDE used for developing the application software. In this project what are all the proposed system is mentioned should be developed using IDE called eclipse.

MYSQL

This is used for database purpose. In the project the information uploaded by the patient should store in the database and when admin need the data he need to search it by using some important key value which is sent to the patient.

2.4 Hardware and Software Requirement

H/W System Configuration:-

Processor	- Pentium –III
Speed	- 1.1 GHz
RAM	- 256 MB (min)
Hard Disk	- 20 GB
Key Board	- Standard Windows Keyboard
Mouse	- Two or Three Button Mouse
Monitor	- SVGA

S/W System Configuration

*	Operating System	:Windows95/98/2000/XP /7	
*	Application Server	:Tomcat5.0/6.X /8.X	
*	Front End	:HTML, Java, Jsp	
*	Scripts	:JavaScript, JQuery, Ajax	
*	Server side Script	: Java Server Pages	
*	Database Connectivity	:My-sql	

Chapter 3

SOFTWARE REQUIREMENTS SPECIFICATION

3.1 Users

- After wary examination the structure contain been recognized to have the going with modules:
- Administrator module
- Client module

3.1.1 Product Perspective

In this plan once one has perceived the framework as a substitute piece of the universe, one isn't permitted to logically disintegrate the structure into isolated parts. Or on the other hand perhaps, one is set out to portray the structure with everything considered.

In the event that one uses designation into parts, as a segment of the portrayal of the structure properties, this is essentially part of a total outline of the conduct of the entire, which must join a depiction of the relationship between these parts and any extra data foreseen that would depict the conduct of the whole framework. Further, in this structure one ought to be attentive about considering the framework with regards to the earth and not as a confined segment. Along these lines one should join the investments and relationship between the framework and nature.

3.1.2 Design and Implementation Constraints

- The Administrator and Clients can get to the framework simply in the wake of signing into the framework by giving their secret word.
- Clients can get to any subtleties from the site.

3.1.3 Assumptions and Dependencies

- Admin and Clients ought to be comfortable with the framework.
- > The framework ought to have database reinforcement.

3.2 Functional Requirements

In programming gathering, a supportive need is utilized to portray the supportiveness of a thing framework for its part. Functional fundamentals make the application design of a structure.

DATA UPLOAD AND VIEW:

In customer side the patients exchange his nuances, after exchange his nuances the patients make course of action for his prosperity registration.

• In executive side the director see the customer interest for course of action

• If the patient is currently selecting them will make courses of action for directing pro, else they will raise the affirmation issue for the patient, in case they answer the enquiries perfectly; by then they will consider the game plan methodology.

ENCRYPTION AND DECRYPTION:

• In customer side the patient exchange his nuances that nuances are exchanging with encryption techniques. After encryption process the data will store it in the database server.

• In chairman side, the data is kept up by the director from the unapproved customer. The estimations are used to make the security level for the customer's data.

• On the contrary side the pro need to get to the customers nuances they will give a passage sales to the admin. The executive will send the route to the master, before checking the authority master.

• If the pro having the master for access customer data, by then simply the key is send to the authority for unscramble the data.

DATA ANALYZING AND METRICS

• In executive side, the customer's nuances are inspecting which patients having high tendency and which patient's low tendency the course of action date will fix on the tendency propensities.

• The manager first fix the need level for the patients depends upon his issues, that issues are evaluated by using the estimations thought using PPDM count.

• After fix the need level the patients will make game plans depends upon the need measurement of the customer.

• This estimations is used to separate the patient's issues and easy to make plans for the customer. The authority in like manner easy to analyze the issue of the patient by using the need estimations.

3.3 Non-Functional Requirements

3.3.1 Safety Requirements

- > The wellbeing prerequisite creates blunder free programming.
- It contains various tests cases, for example, unit testing, incorporation testing and acknowledgment testing and so on

3.3.2 Security Requirements

The software has login facility through which only valid authenticated user can login.

3.2.3 Performance Requirements

- The PC's performance must be at least Pentium 4 machine so that they can give optimum performance.
- The good working PC with all the requirements as stated in hardware and software interface.

PART 4

SYSTEM DESIGN

4.1 structure Perspective

In this configuration one ought to be careful about considering the framework with regards to the earth and not as a secluded segment. Along these lines one should join the co operations and relationship between the framework and nature.

4.1.1 Design Constraints

Design requirements are premises and needs of plan. The creator can set requirements utilizing conjunct apparatuses or by escort imperative documents legitimately into comp session.

4.1.2 Future Contingencies

The securing cloud under key exposure provides interface with different dominions and lock up over internet.

4.1.3 System planning

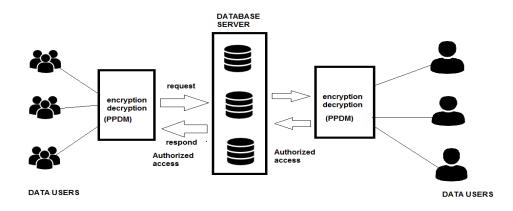
Architectural Design is a process of sour a huge multipart scheme into tiny data. The securing cloud under key exposure is website combination of module admin information, user information etc.

4.1.4 System Hardware style

It is physical composition of the method and they are correlated. Helps a hardware developer to understand the physical parts of system architecture and provides access permission to software components while heedful ling the system.

4.1.5 System Software construction

The is the process of identifying a prepared resolution with the intention of meet all of the scientific and effective desires of securing cloud under key exposure and likewise predication.



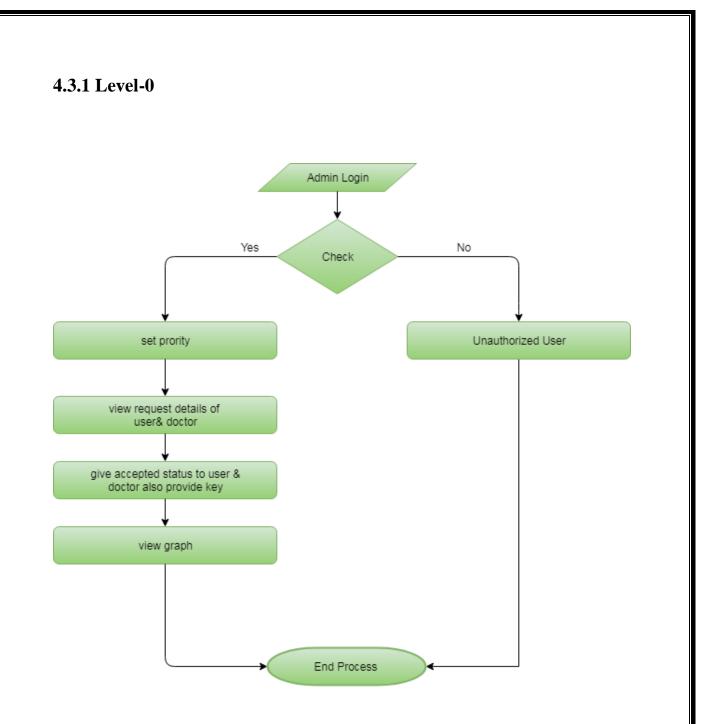
4.1.6 System Communication Architecture

The System Communication Architecture acts as a transmitter that can be done through in securing cloud under key exposure by software not through the hardware which make changes in the beat vicinity, modulation type etc.

4.2 Context Diagram

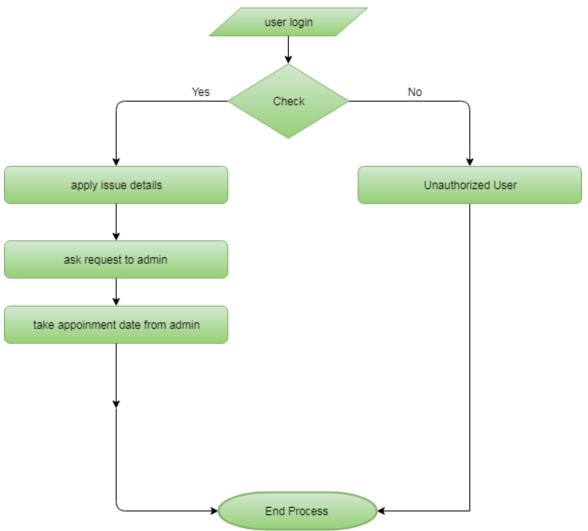
Context flow diagram below shows only the basic level of interaction taking place between the users and admin. Admin will login to the portal and maintains the information that will be stored on database so that retrieving can do easily.

4.3 Data Flow Diagram

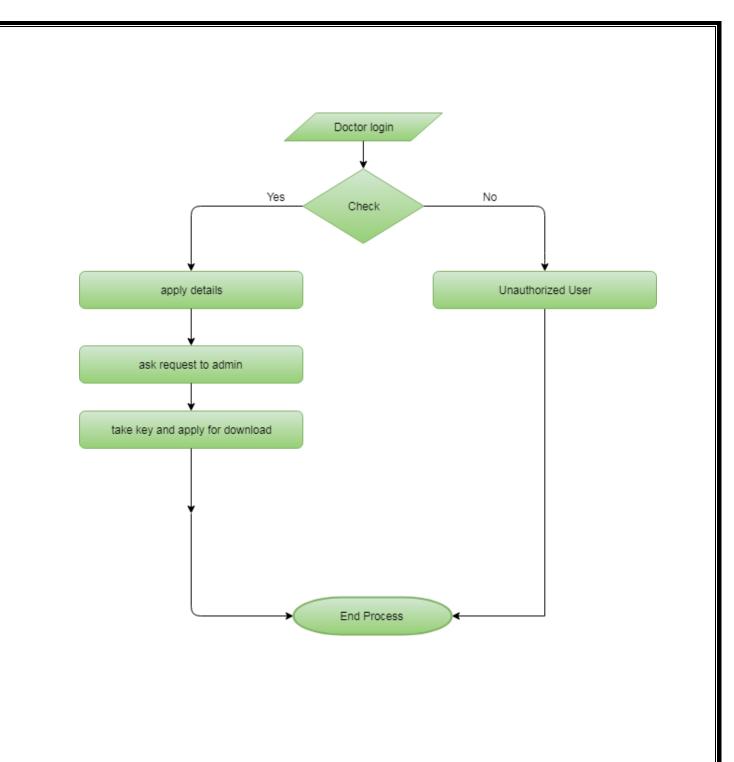




1. It shows how the information moves through the system and how it is modified by a series of transformations. It is a graphical technique that depicts data.



Patient flow chart



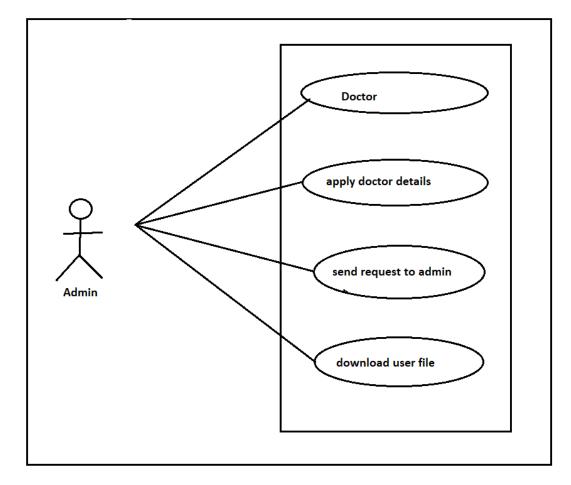
Chapter 5

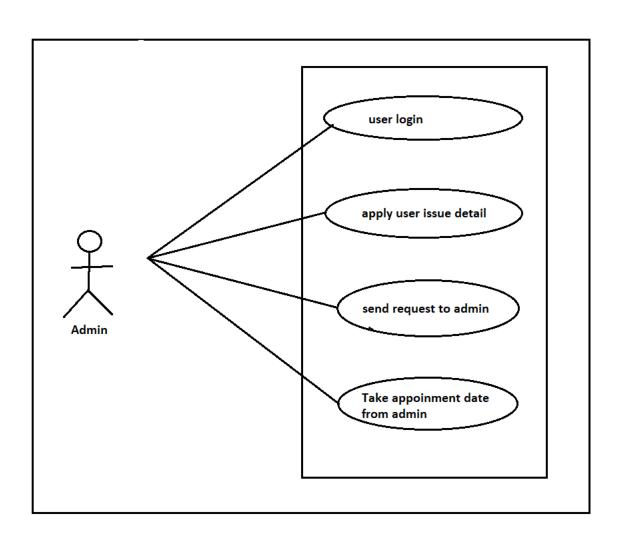
COMPLETE PLAN

5.1 Use Case Diagram

It demonstrates the assignment amongst clients and the capacities and their relationship. It has four segments.

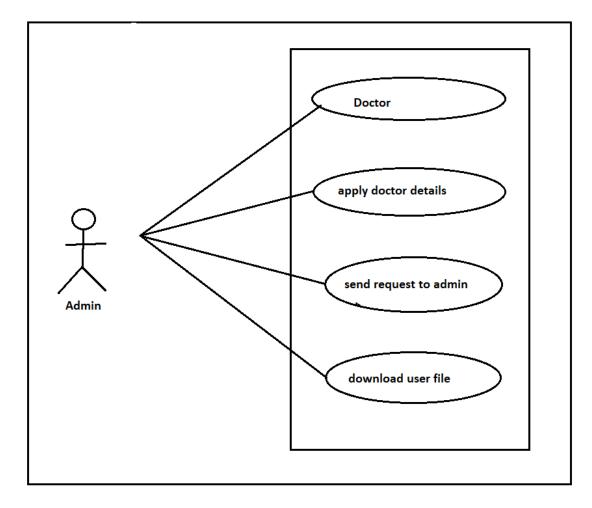
- Boundary This depicts the arrangement of fervour for relationship with its general condition.
- > Actor generally individuals required with the structure portrayed by segments.
- ➢ It has a few functionalities.
- **Relationship** Interaction amongst clients and their capacities.





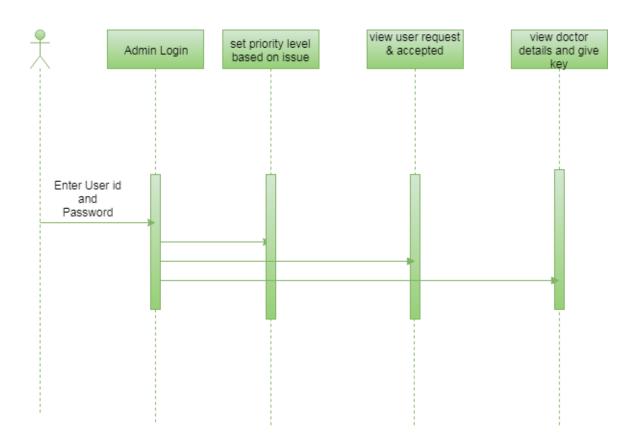
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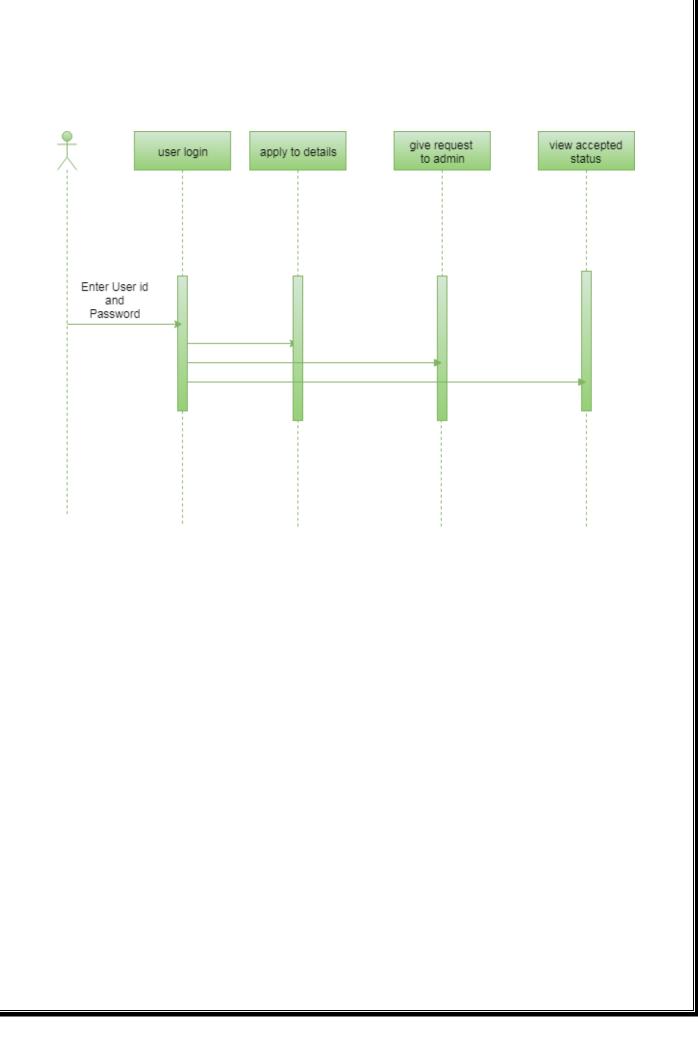
Doctor page



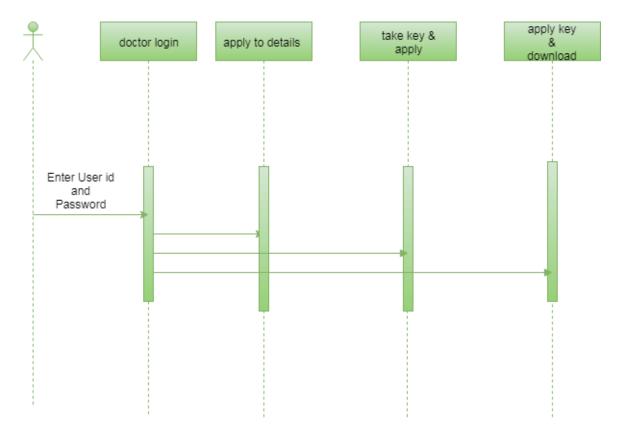
5.2 Sequence Diagrams

The flow of activity in a sequential manner. The interactions of the objects are being illustrated. The diagram represents the sequential flow of the messages which is being exchanged from one object to the other.





Doctor page



Collaboration Diagram:

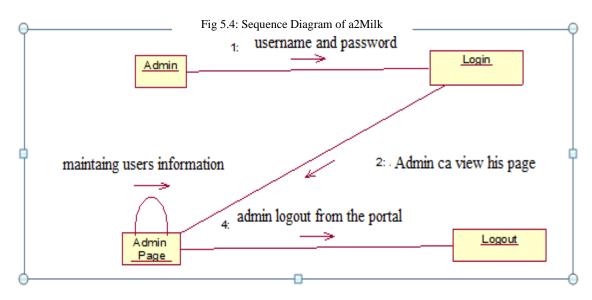
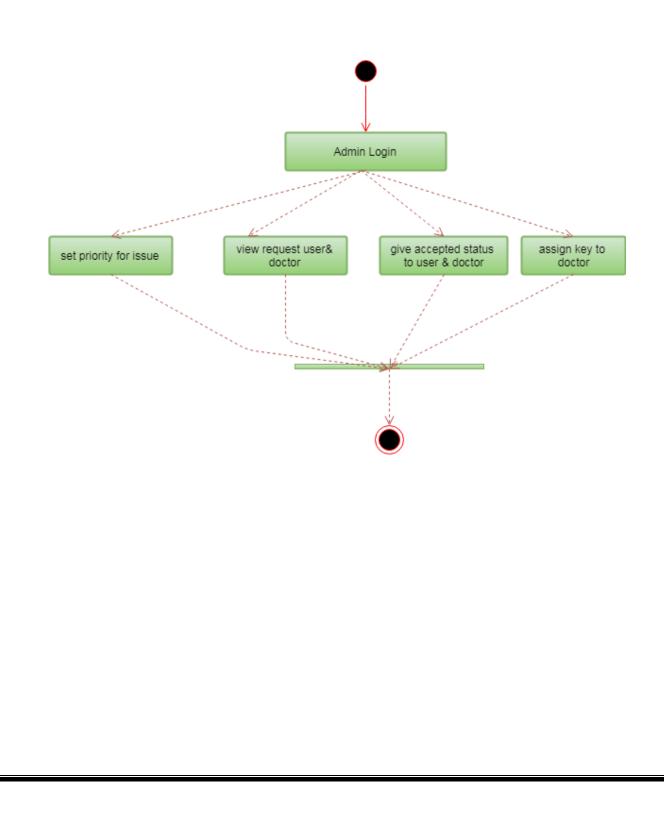
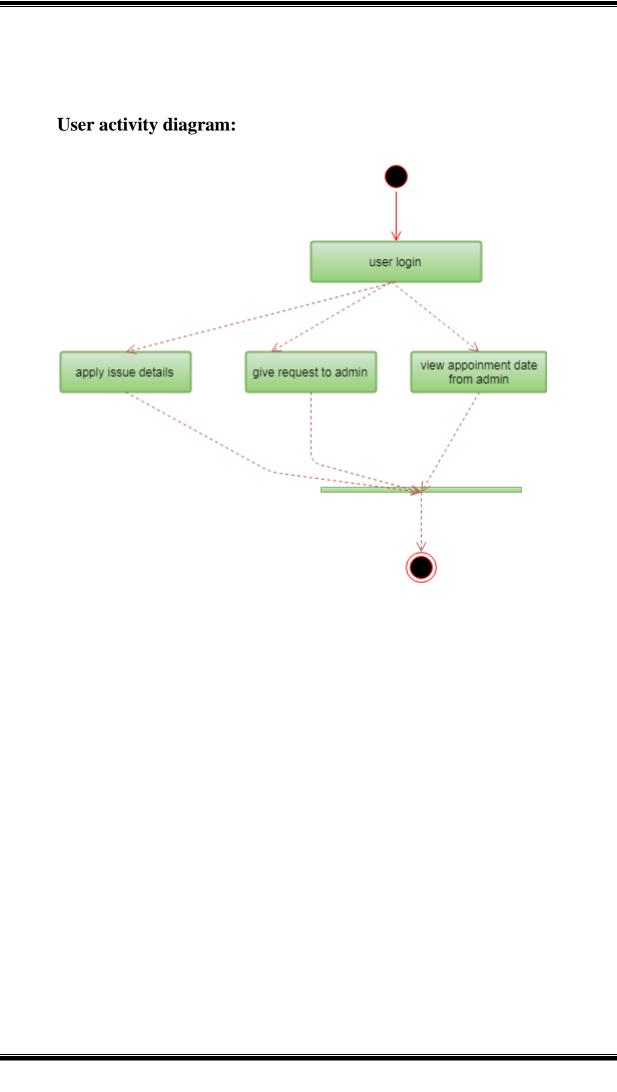


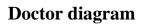
Figure 5.3: Collaboration Diagram for audience behaviour mining

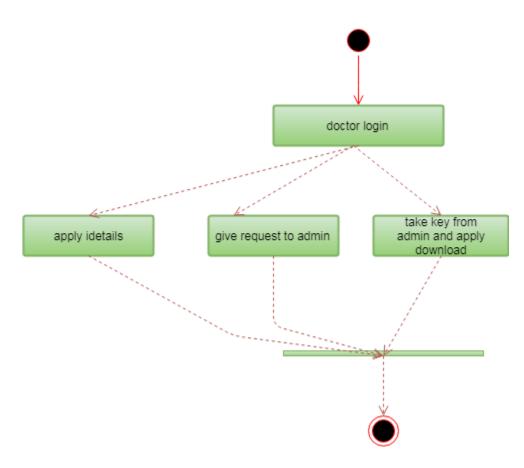
5.4 Activity Diagram

The diagram represents the flow of users activities in the application. The stepwise activity is being represented in the below diagram. Rectangles illustrate the actions, diamonds illustrates the decisions and the circle illustrates the start of the activity diagram.









Chapter6

IMPLEMENTATION

6.1Introduction

Implementation is the stage of the project when the theoretical design is turned out into a working system. Thus it can be considered to be the most critical stage in achieving a successful new system and in giving the user, system will work and be effective

6.2User Interface

Designing a user interface must be user friendly and it must work properly so it needs to take special care while designing. Visual and Non-visual Representative for Social Event Mechanisminterface has been designed with all the functions as user expect

Main Page



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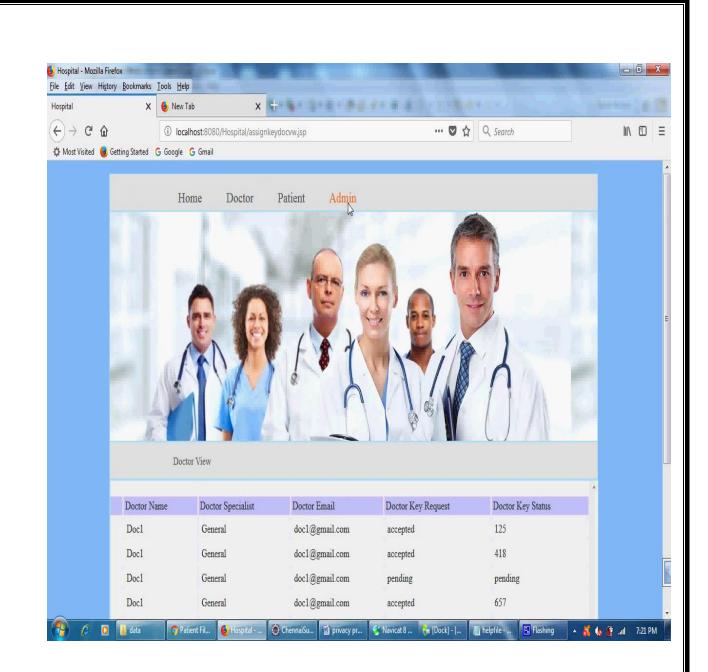
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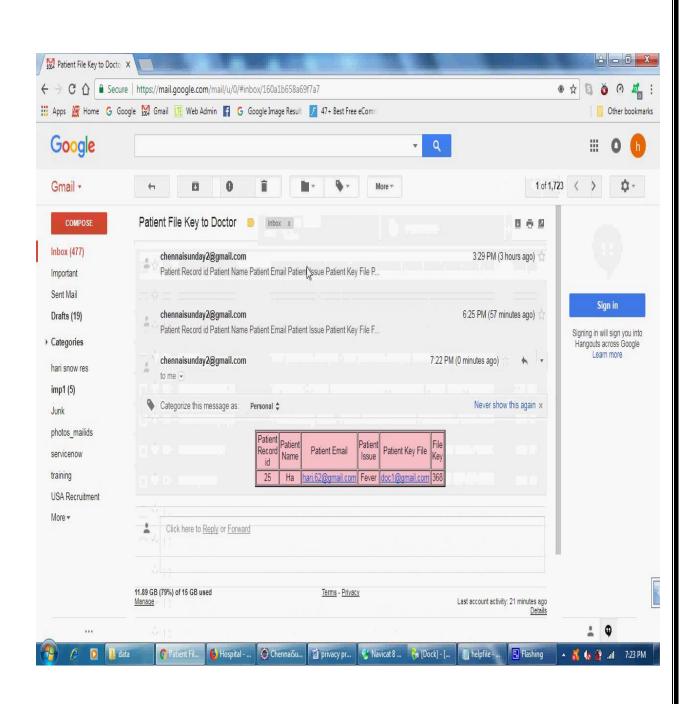
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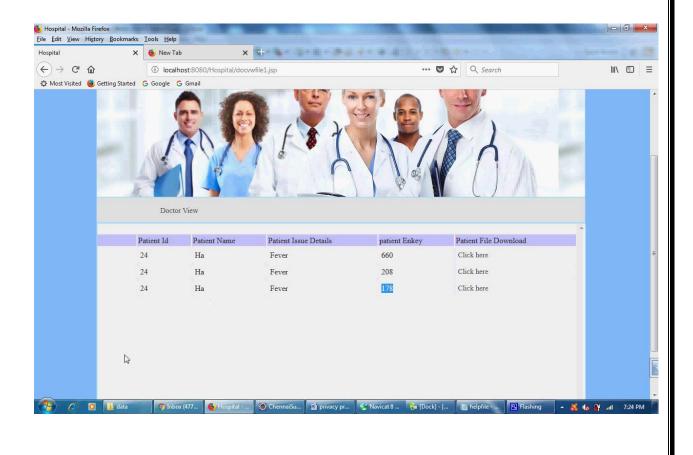


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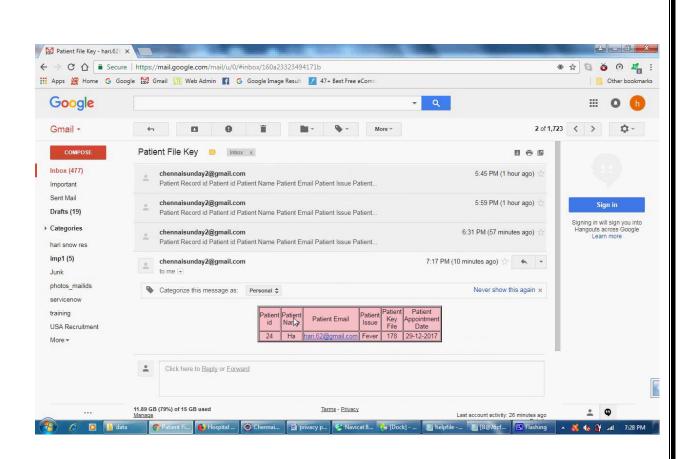


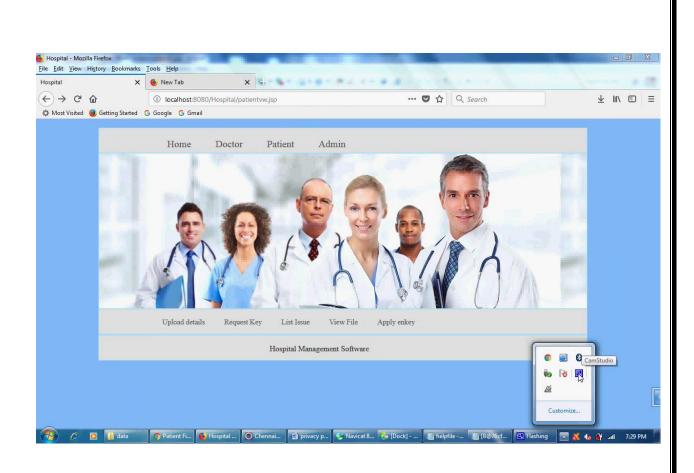
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Chapter 7

SOFTWARE TESTING

7.1 Introduction

It is a method of running a task or application with the objective of finding the item bugs. 9Testing is finished by utilizing a couple of contraptions or manual way. Testing is done from the soonest beginning stage of the thing improvement life cycle and completes till the end; finally it is gone on to the customer. Testing is a fundamental piece which ensures quality and abundance of the organized structures in get-together its objectives.

7.1.1 Unit Testing

Each modules of the project are tested to make sure that all modules work according to the functional requirements. Here username and password important to check whether using correct username and password or not.

7.1.3 System Testing

System testing done on audience behaviour mining after completion of an integrated testing. Because the application must work properly after development has been done. It should reach and match the needs expectation.

7.1.4 Validation Testing

In privacy preserving data mining data entered must be valid, if the user enters a wrong input the system provides message to enter proper input. The rules applied on the application modules must restrict user from entering invalid data into the database.

7.1.5 User Acceptance Testing

A privacy preserving data mining is successful only if it reaches user expects. The application has been provided for test to get a regular feedback from the user during the development of the application. By doing this user can get an idea of about the application and they can notice any error in a portal.

7.2 Test Cases

Table No.7.1: User Login Page

Serial No	Test Condition	Expected Results	Test Results
1	Entering Invalid	Should not be allow to login	Pass
1	username and password	to the application.	1 855
2	Entering valid username	Should allow moving	Pass
2	and password	respective page.	1 855

Table No.7.2: Admin Registrations

Serial No	Test Condition	Expected Results	Test Results
1	Entering name	Should text or else error message	Pass
2	Entering Username	Should enter correct username.	Pass
3	Entering password	Should enter correct password.	Pass
4	Entering phone no	Should be number with in 10 digits	Pass
5	Entering email	Should email format or else error message	Pass
6	Click on "Login"	Should accept and login page.	Pass

Chapter 8

CONCLUSION

Security Saving Information Mining (PPDM) systems have been proposed to allow the extraction of gaining from data while defending the assurance of individuals. In this audit, a framework of data mining procedures that are relevant to PPDM of broad measures of information is given. This fills in as starter establishment for the following point by point depiction of the most outstanding PPDM approaches. These PPDM systems are depicted by the data lifecycle arrange at which they can occur, specifically

Assembling, circulating, allotment and yield of data. The evaluation of these frameworks is then would in general by separating estimations to study the security and quality components of data similarly as the capriciousness of the proposed PPDM approaches. Starting there, the recently referenced PPDM strategies are considered from the point of view of their application to a couple of sober minded spaces and their favoured reason for those specific regions. Finally, some open issues and heading for future work are depicted.