

A project report on

**PRIVILEGED SEPARATION TECHNIQUE
WITH SITUATIONAL AUTOMATION**

Submitted in partial fulfilment of the requirement
for the award of the degree of

**MASTER OF COMPUTER
APPLICATIONS**

of

Visvesvaraya Technological University
Belgaum, Karnataka

By

**MAMATHA.B
1CR18MCA68**

Under the guidance of

Internal Guide

Dr. A. Abdul Rasheed
Associate Professor,
MCADepartment,
CMR InstituteofTechnology,
Bangalore.

ExternalGuide

Mr. Chetan MR
OXY LOGICA
Bangalore



CMR INSTITUTE OF TECHNOLOGY

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

Department of Master of Computer Applications

Bangalore - 560037



CERTIFICATE

This is to certify that the project work entitled

Privileged Separation Technique With Situational Automation

*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*

**MAMATHA.B
1CR18MCA68**

during the academic year 2019-2020.

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CERTIFICATE

This is to certify that the project titled "Privileged separation technique with situational automation" is submitted to Oxy Logica in fulfillment of the requirement for the final semester degree of MCA from CMRIT, BENGALURU. The project is a bona fide record at work carried out by Miss. MAMATHA.B (1CR18MCA68) under the supervision and guidance of Mr. Chetan MR (Technical Manager) Oxy Logica, Bangalore between the periods from 23/12/2019 -28/5/2020.

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

Best regards,

A handwritten signature in blue ink, appearing to read "Chetan MR".

OXYLOGICA
96/G, Tumkur Road
Goraguntepalya
Bangalore - 560022

Mr. Chetan MR
Technical Manager
(For Oxy Logica)

DECLARATION

I, **MAMATHA.B**, student of 6th MCA, **CMR Institution of Technology**, bearing the USN **1CR18MCA68**, hereby declare that the project entitled “**Privileged Separation Technique With Situational Automation**” has been carried out by me under the supervision of External Guide **Mr.Chetan MR**, Technical Manager, and Internal Guide **Dr.A.Abdul Rasheed,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

MAMATHA.B

Date:

(1CR18MCA68)

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. Chetan MR, Technical Manager, OXY LOGICA Bangalore, and to my Internal Project guide Dr. A. Abdul Rasheed, 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 guide Mr. Chetan MR, Technical Manager, OXY LOGICA Bangalore, who gave opportunity to do this project at an extreme organization. Most of all and more than ever, I would like to thank my family members for their warmth, support, encouragement, kindness and patience. I am really thankful to all my friends who always advised and motivated me throughout the course.

MAMATHA.B
(1CR18MCA68)

S.NO.	Contents	Page No.
1.	Introduction	
	1.1 Project Description	
	1.2 Company Profile	
2.	Literature Survey	
	2.1 Existing System and Proposed System	
	2.2 Feasibility Study	
	2.3 Tools and Technology Used	
	2.4 Hardware and Software Requirements	
3.	Software Requirement Specification	
	3.1 Users	
	3.2 Functional Requirements	
	3.3 Non- Functional Requirements	
4.	System Design	
	4.1 System Perspective	
	4.2 Context Diagram	
	4.2.1 Data Flow Diagrams	
5.	Detailed Design	
	5.1 Use Case Diagrams	
	5.2 Sequence Diagram	
	5.3 Activity Diagrams	
	5.4 ER Diagrams	
	5.5 Class Diagrams	
6.	Implementation	
	6.1 Screen Shots	

7.	Software Testing	
8.	Conclusion	
9.	Future Enhancements	
10.	Bibliography	
11.	User Manual	

1. INTRODUCTION

1.1 PROJECT DESCRIPTION

Various types of automation replication that is required by the organizations is provided with the help of the system which is been designed so that acknowledgments of working can be promoted in multiple perceptions of privileged services. The system is designed for multiple types of behavioral communication when the organizations are required to optimize different types of related considerations based on their client workability. Bigger clients are having more references of their Associates so it is needed that all types of global associate should be properly accomplished unacknowledged for different types of working and this will be done with the help of the system where multiple references of consolidated on a single console. All types of working that is required to be established will be associated with detailed structuring of the system so when a particular company has long to the system they have to provide the considerations of the working properly acknowledged by multiple types of guidelines.

The system is based on automation so obviously different types of structural behavioral setups will be provided according to which based on the conditions the system will Trigger the activities in the real time. The system is also designed in a way that multiple types of client related activities can be triggered automatically based on the conditions and even various types of perceptions of business intelligence has to be added. Multiple considerations are provided where multiple types of category management and work division provisions are also included or we can say that system at the same time can be utilized for multiple types of workability by dividing it into different types of category.

Each and every category related work can be associated in different perspectives which is very much important as per considerations will differ from one activity to another. When the consolidated working is acknowledged it is easier for the users to have collaborated working because all the teams related to a particular working will be associated on a single system even it is even as the system supports the incorporation of multiple clients also. Instance design will be provided which will be done by the administrator and accordingly the Global Associates can be added on that instance where even the defining of the working features related will be implied.

All types of implications that have required to be acknowledged with the help of the instance that has been designed will be saved by the system in accordingly different types of activity divisions can be performed. All types of user allocations will be controlled from Central residents so as the users will be added they will be defined with different types of working rights. The administrator will be also setting up the allocation requirements and accordingly in the real-time the system provides different types of references in terms of the priority sectors and the work allocation also. The work allocations when managed by the system will provide more flexibility as according to the conditional requirement the system will react and this will help us to implement the related business intelligence formation.

Multiple types of dashboard working view will be provided which again will be provided with conditional setup so that the required information from the can be viewed whenever required. All types of summary provisions that have provided by the system will be in real time and anytime any type of modification is required will be supported. The system is also included with real time incident orientations so a page will be provided where are all types of incident related activities can be acknowledged. Multiple types of relative references based on filtered reports are also included within the system so that any type of information which is required can be fetched and even these reports can be converted in transferred.

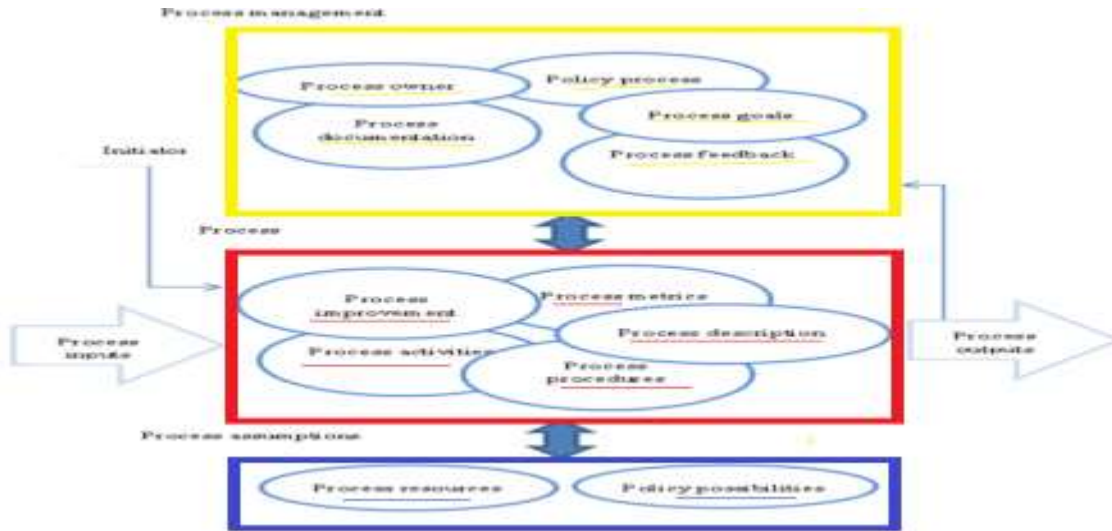


Figure 1. Defined Working Process

The above figure 1 shows the defined working process

The report section will be divided into multiple provisions according to the requirements it will be utilized so if needed the inbuilt report systems will be used and if the customization is required then customize reports will be utilized where is even the type of display that is needed will be generalized by the users themselves. Multiple types of digital content orientations with content triggers will be also setup and for this the administrator will provide the authentication to the users and accordingly multiple types of contents will be generated. The contents data generated will be used as a reference of help in the real time where according to the conditions of Trigger the related content will be shown or will be provided to the workers.

1.2 COMPANY PROFILE

The inventive thoughts and with the assistance of cutting edge digitalized arrangements the organization gives the customers all social part of working where the expected undertaking arrangements can be furnished with a legitimate auxiliary comprehension. Different kinds of discernment are attempted by the association with the goal that hundred percent consumer loyalty and specially craft arrangements can be given. Numerous stage support and the area direction on a worldwide scale is overseen by the association to help oversee diverse business necessities for instance the task direction, business foundation in commitment, the related business stage structures, personality enough scaling, inquire about contemplations, vital execution and arranging and so forth.

The coordinated innovative work group will be related day in and day out as far as finding new methods and thoughts with the goal that we can help the customers for more advanced business systems administration and foundation.

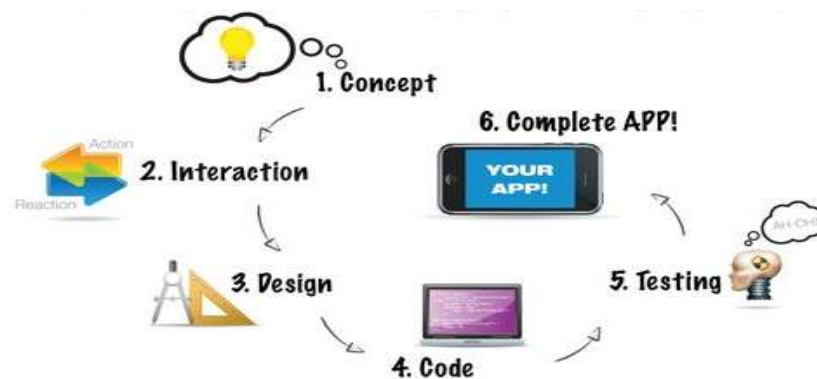


Figure 2.App Development Process

Some of the main perfection the company is into is listed as following

- Website outline and advancement
- Custom advancement of Windows and UNIX
- Multi-level, customer/server arrangements
- E-stores
- Blog outlines
- Online stores
- SMS/GPRS applications
- E-business systems
- SEO, SEM and SMM

- Database plan and advancement
- Consulting and critical thinking
- Domain and Web facilitating

2. LITERATURE SURVEY

2.1 EXISTING AND PROPOSED SYSTEM

EXISTING SYSTEM

When we have conducted a detailed survey be found that the considerations of the business identities that are required to be managed on a global scale is quite difficult because we have found that there is no business intelligence applied or there is no automation applied so all the references by the clients are managed individually. Multiple types of problems are being acknowledged by them in terms of workability and understanding so we have properly referenced all the problems.

Some of the important considerations that are being outline are listed as following-

- In the existing system the dimensions related to different types of clients is managed on the individual perception so all types of related incident and other activities managed by various types of teams
- In existence system even the references of work that has to be done is acknowledged with the help of different types of utilities which again has to be individually induced in the network making it more complicated in terms of the control and even increases the cost
- In the existing system the working automation are quite difficult to be implemented and various types of references of Automations if required has to be done by individual resources which has to be again gathered and maintained by different users
- The related work ability and conditional work Optimization where the references are required to be undertaken with respective view is also not supported or we can say that then needed customizations are not supported in the existing system if it is required to be applied
- In the existing system we have also seen that behavior based on business intelligence is also not supported so the requirements is based on self-consideration
- In the existing system we also found that the needed acknowledgements of the perception in the format of different types of matrix is also quite difficult to be generated because the working processes differs from one another
- In the existing system even the automated provisions of help and automated provisions of work assignments is also not supported which is difficult because we require that large number of Associates can be properly controlled
- References of data acknowledgement is also quite difficult to organize in terms of different types of preferences because the workability will be different and as multiple considerations are required to be acknowledged it is quite difficult to have proper secured data management

PROPOSED SYSTEM

The proposed system references are basically the referential functionalities that are included in such a way that all types of problems that are related in the existing scenario can be properly eliminated. Multiple types of references of automation and intelligent system is included in the proposed system which will help the Global clients to associate the work they require and multiple work reflex is also done in an automated provisions making it more flexible.

Some of the important references of the proposed system are listed as following-

- The proposed system is designed to acknowledge different types of dimensions that are required to associate client related activities so one system can be utilized in multiple dimensions
- In the proposed system all types of working considerations and features that are based on different types of utilities provided in a single system which makes it more acknowledged as multiple types of teams can be incorporated on a single system for the working
- All types of automation that are required can be implemented with the help of the proposed system and as the automation plays important role in cost saving it is very much helpful. Conditions can be set up accordingly so that the system can behave automatically in this time
- All types of customization support which is needed by the organizations are provided so we can say that system supports all types of custom orientations. Customization is very much important and requires to be properly implied so that the working requirements can be implemented
- Multiple types of behavioral working based on business intelligence will be supported in the proposed system
- Different types of information provisions are provided in the proposed system where the categorical report system can be generated by the users according to their choices. The system provides all outlined information for proper Insight
- The automation in terms of work assignments in work setups is also provided within the system so that large set of Associates can be properly organized because multiple types of operations are required to be undertaken
- All types of data acknowledgement security is undertaken within the system or we can say that system is associated with detailed information management where all the data can be synchronized with cloud repositories and even different types of data security methods can be implemented

2.2 FEASIBILITY STUDY

Feasibility references are associated in such a way that all types of conditional working that has to be undertaken should be properly planned first so we can say that before we are design the system we have to understand that how much money is required and how the technological variations are required for the design and implementation and even different types of operational considerations

Technical feasibility

Operational feasibility

Economic feasibility

TECHNICAL FEASIBILITY

Technical considerations are important to be achieved properly with all types of discussions so when the system is been started for the designing first we have to check that how different types of processes will be organized

All types of Technical variations to support the automation and business intelligence will be provided with the help of defined page where all types of Trigger settings needed to be provided and all these Trigger options should replicate in the real time

The users in the development team will be provided with all types of resources which is needed to be acknowledged for the working

All types of Technical considerations for the real-time working is required to be established we have to understand the related information references what the plants require and accordingly the reports will be inbuilt



Figure 3. Feasibility Study

Different steps of feasibility study is shown in the above figure 3

OPERATIONAL FEASIBILITY

Operations are important and has to be considered properly so all types of operational references will be provided to the users so that they can understand that how the system usability should be provided to the users for better usage of the system

Multiple types of training provisions will be incorporated and will be provided on the client side so that they can have a detailed understanding

Documentations will be also provided to the users so that they can acknowledge the type of references of help they require

ECONOMIC FEASIBILITY

Economic consideration are based on different types of economic conditions which has to be fulfilled as when different working stages will be incorporated in real-time different types of adverbs scenarios can arise and it has to be properly managed

Predictions will be performed by the financial department based on the investment requirements and profit

Financial department will consider all types of workability in detail references of the reports will be provided to the users

2.3 TOOLS AND TECHNOLOGIES USED



Figure 4. Java and Oracle

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.

MYSQL

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

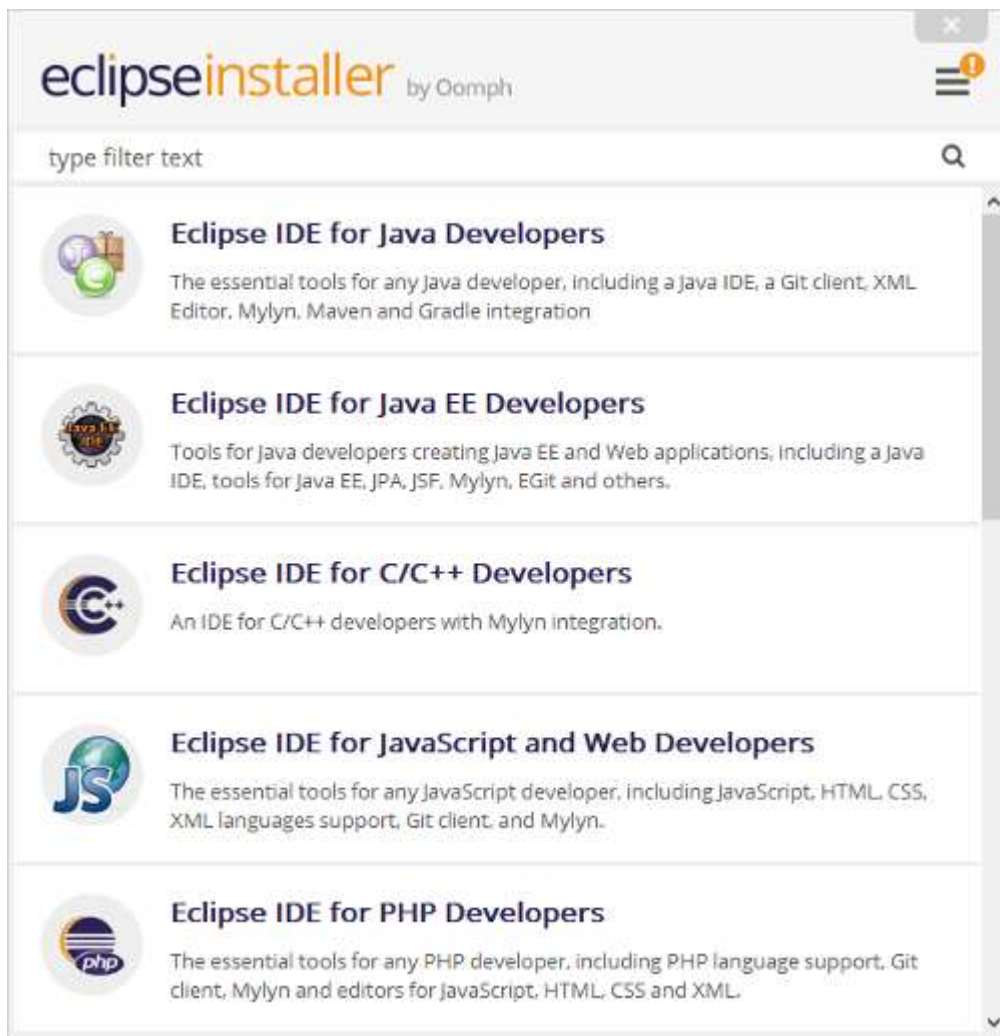
It is an open source grant based working

It will be versatile

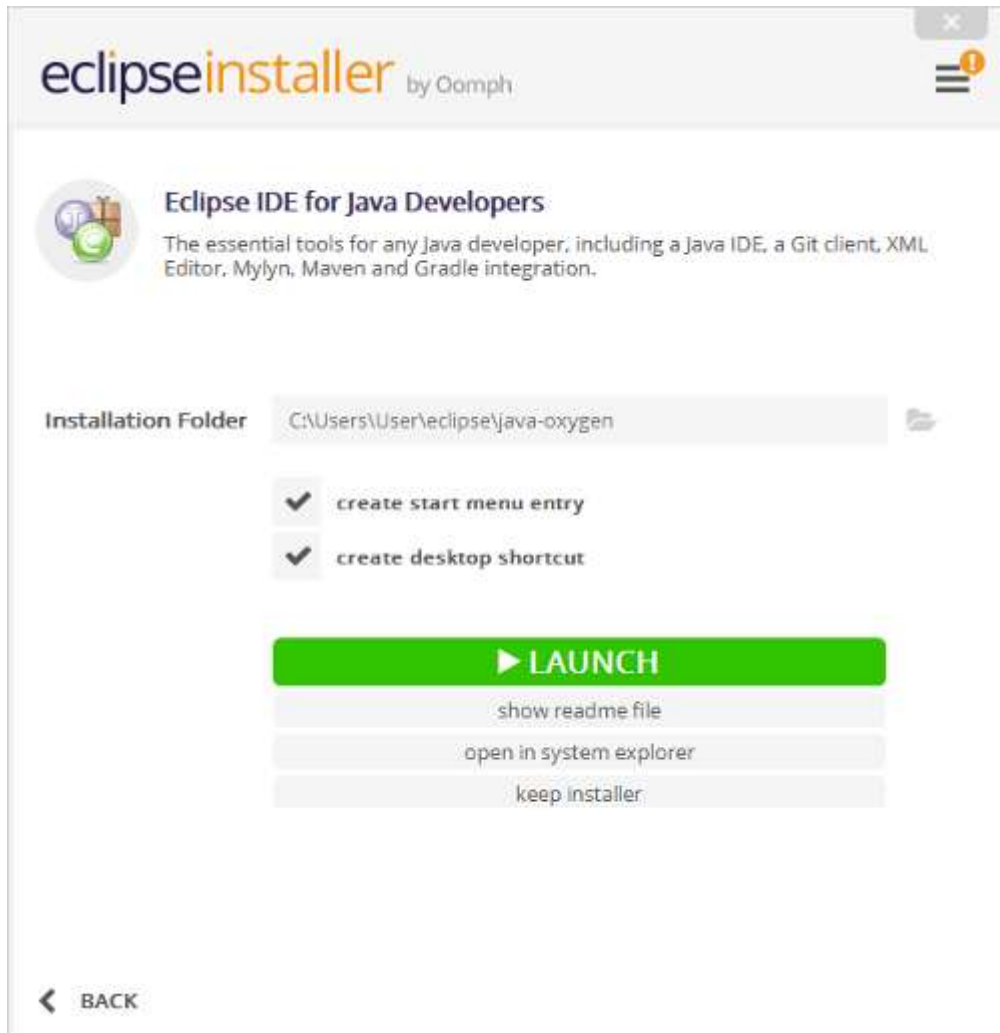
MySQL works on many working structures and it support different lingos for example Java PHP, etc.

INSTALLATION

1. Run the Eclipse installer.

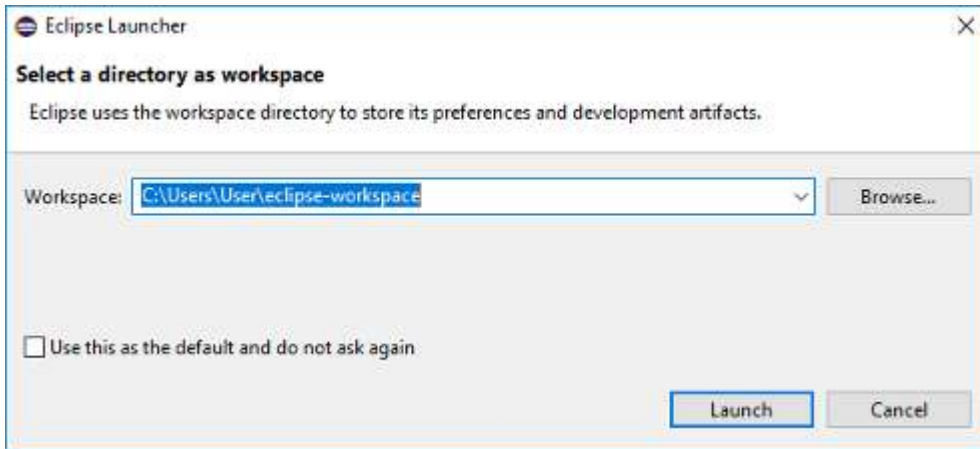


2. Click the "Launch" button.

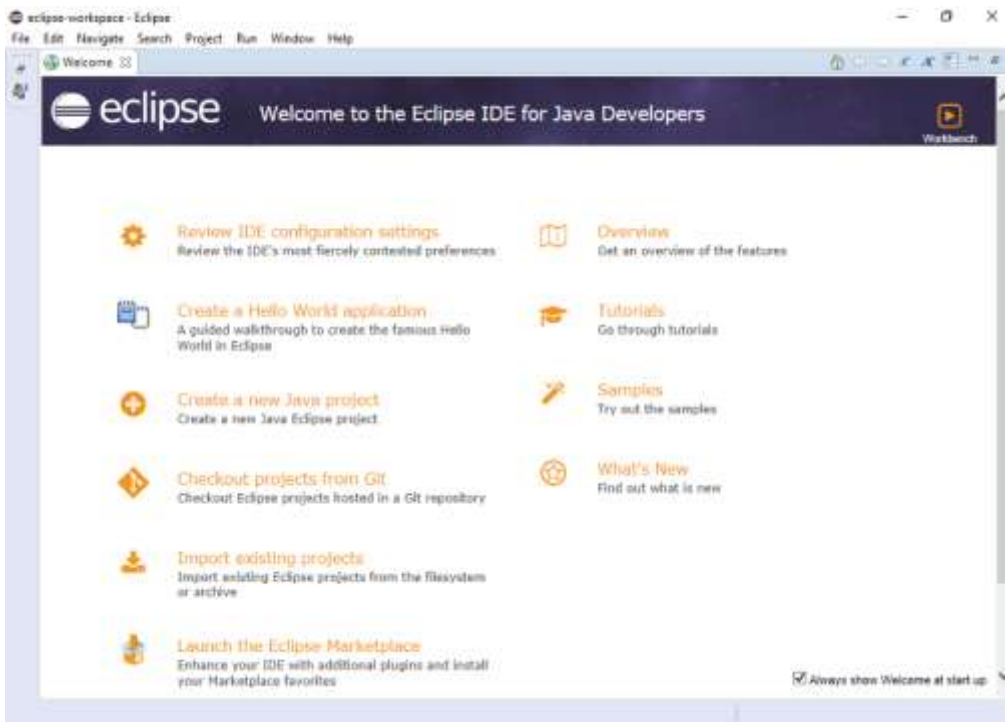


Configuration

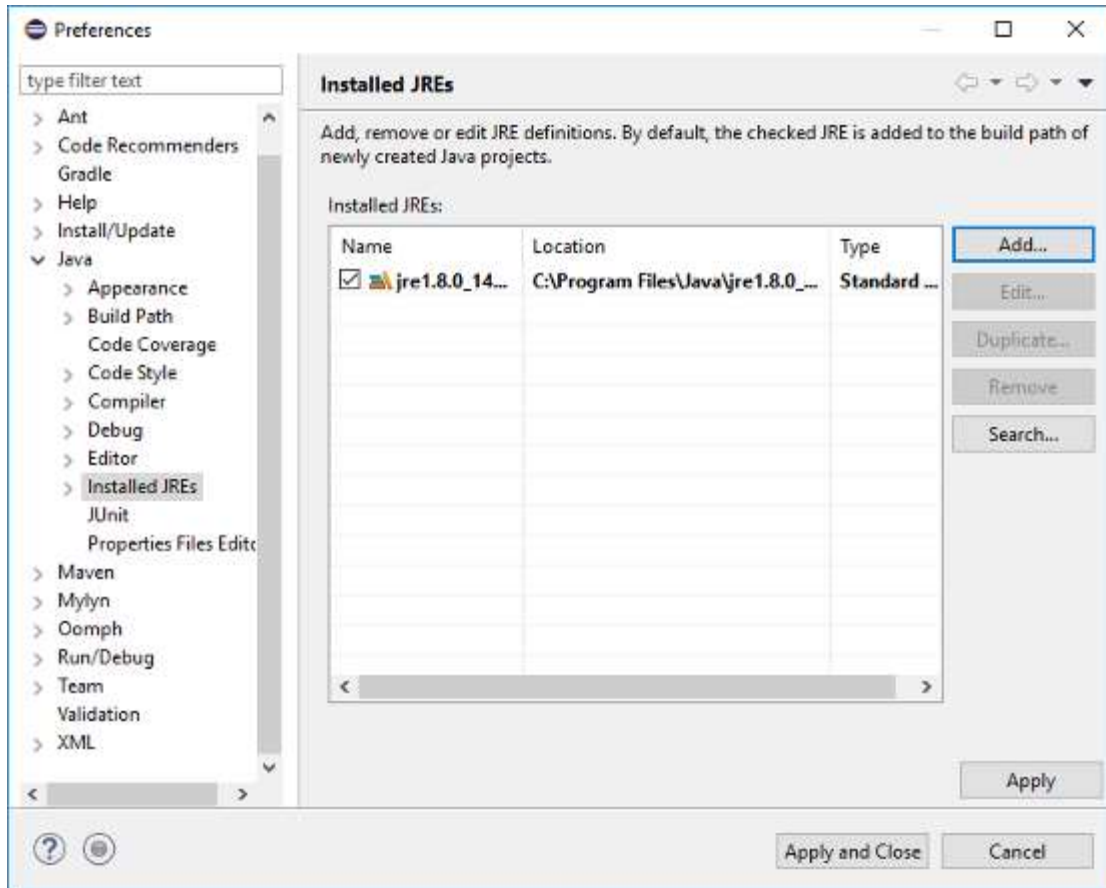
1. Run Eclipse



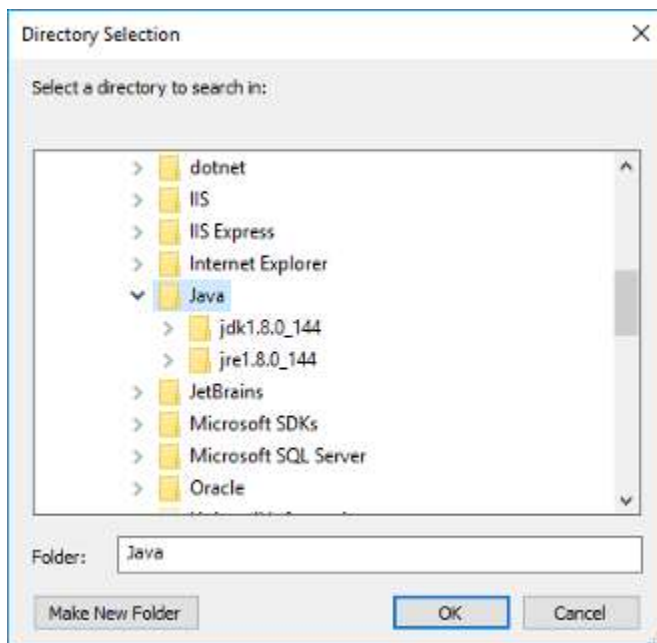
2. Open the regular editor.



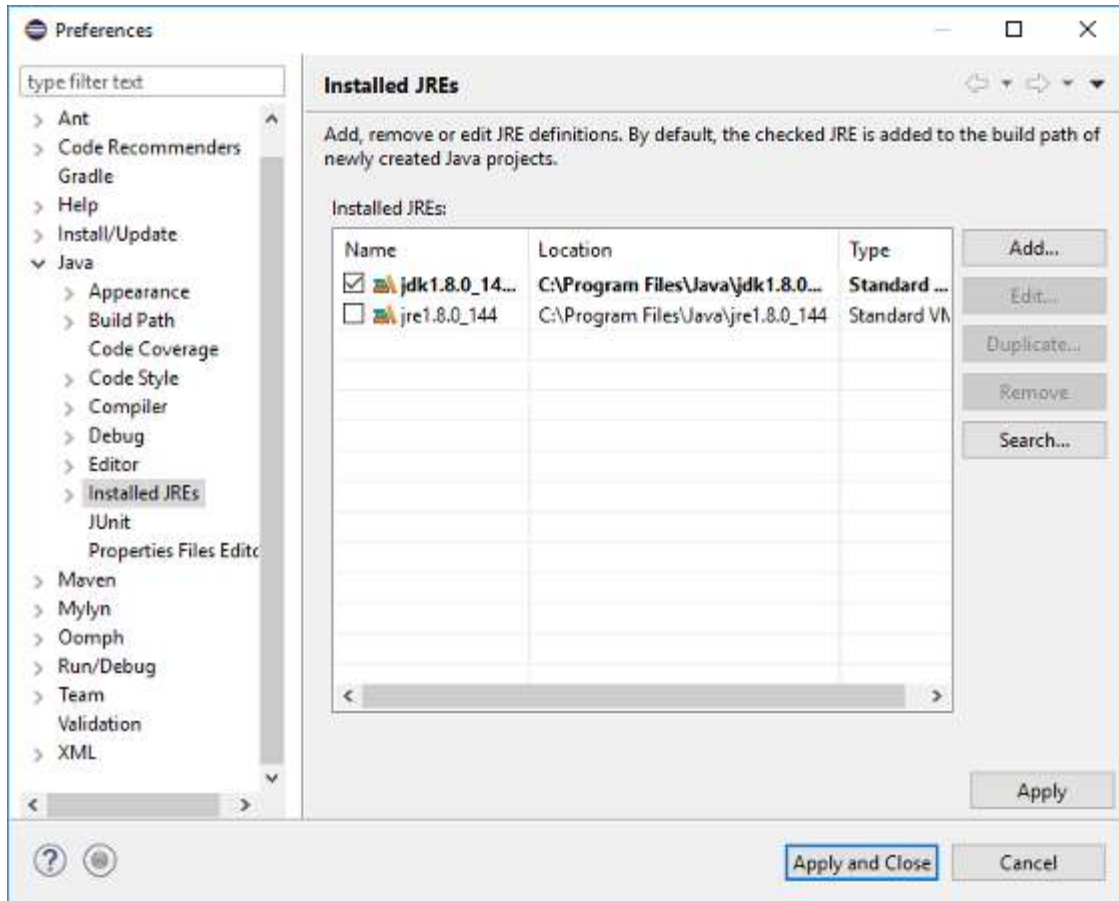
3. select "Java > Installed JREs":



4. Click the "Search" button and select the "Java" folder.
 - Windows: C:\Program Files\Java



5. Select the line for the JDK:



6. Click the "Apply and close" button.

2.4 HARDWARE AND SOFTWARE REQUIREMENTS

SOFTWARE REQUIREMENTS

Databases

MySQL8.0.13

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 REQUIREMENTS SPECIFICATION

3.1 USERS

Administrator

Administrator will be having the structuring right where the interface design will be considered so that Global identities can be referenced and can be provided with a collaborated integration whereas even the employees will be added so that the activity provisions can be acknowledged.

Associate

Associates will be clients and the employees who will be referenced with different types of working rights and they will be performing different references of workability. Multiple considerations will be acknowledged and this acknowledgement will be associated with direct tracking also so that only the related rights provided can be referenced by the association real-time

Assumptions and dependencies

Assumptions are related with the working consolidation where we require that all types of working requirements in Association should be properly acknowledged by the administrator so that proper authorized users with proper knowledge can utilize the system

The main dependency of the system is that even the clients and all the employees will be associated of Central platform for different types of considerable activities that have to be considered

Scope and objective

The related scope of the system is that system can be utilized for different types of acknowledgement of automation as we have seen that multiple references of automated considerations were included. System is associated with multiple workability consideration switch makes a cost effective review for the associated clients to acknowledge multiple considerations at the same time

The main objective of the system is to associate the directive of work in a associated manner so that multiple types of clients can utilize it for more referential flexibility and even all types of consideration based on information gathering is also provided

Problem statement

The problem reference of the system is that multiple types of professional automation references based on different types of scenario should work in the real time according to the perceptions so detailed business intelligence is required to be accomplished

The related references of multi operational consideration has to be active where different types of business perspectives will be managed for different types of activity

The considerable real-time information presentation is also needed

3.2 FUNCTIONAL REQUIREMENTS

The related functional requirements are required to be associated with the functionality that the system provides for different references of working so we have to acknowledge the detailed processing system where the system will process the information and even different types of references of consideration based on the inputs and outputs will be properly documented

Interface design

Use Case Name	Interface design
Trigger	Selective
Precondition	Admin login required
Process	<p>Interface design for the incorporated working will be provided by the system where are related dashboard will be designed which will be collectively used for performing different types of activity.</p> <p>Administrator will be adding all activities that have to perform and in real time the related workability will be associated. The related collected information will be acknowledged by the system as setup will be provided.</p>
Post-condition	Design undertaken

Automation and business intelligence

Use Case Name	Automation and business intelligence
Trigger	Selective
Precondition	Authentication required
Process	<p>Automation and business intelligence provision for added where the system will provide multiple interfaces where different types of conditions are required to be entered and as these conditions are and even multiple reference of the conditions can be supported</p>

	and accordingly the system will save the references and in real time the related automated activities will be referenced
Post-condition	Details added

Information provision

Use Case Name	Information provision
Trigger	Auto and design based
Precondition	Reference added
Process	<p>Information provision that is required as help will be also provided with the system provides multiple design formation and as these designs are Incorporated references of information can be acknowledged.</p> <p>Detailed information provisions will be supported by the system where all types of consideration of content type will be supported and can be generated. Information provision added in the real time system according to the tag will provide information</p>
Post-condition	Design reference provided

Report cracking

Use Case Name	report cracking
Trigger	Selective
Precondition	Working acknowledged

Process	<p>Different types of report cracking is also provided within the system where the user are required to provide inputs and accordingly the information provisions with the process by the system will be provided.</p> <p>All types of information that is provided will be elaborated with different types of statistics and all types of information provisions will be generated with the help of different types of considerable graph also.</p>
Post-condition	Reports generated

Automated incidence

Use Case Name	Automated incidence
Trigger	Selective
Precondition	Reference clients added
Process	<p>Automated incidence acknowledgement is also provided within the system where multiple clients related incidents can be organized this will be done with the help of automated priority set up by the system and even the work allocations will be provided automatically.</p> <p>Detailed references of the information about the real time incident will be also provided.</p>
Post-condition	Real time reference shown

3.3 NON-FUNCTIONAL REQUIREMENTS

Nonfunctional requirements are based on quality which has to be properly established as when the quality perceptions are properly defined the users can utilize the system in more defined way. Multiple considerations of the security requirements and other maintainability requirements has to be properly referenced

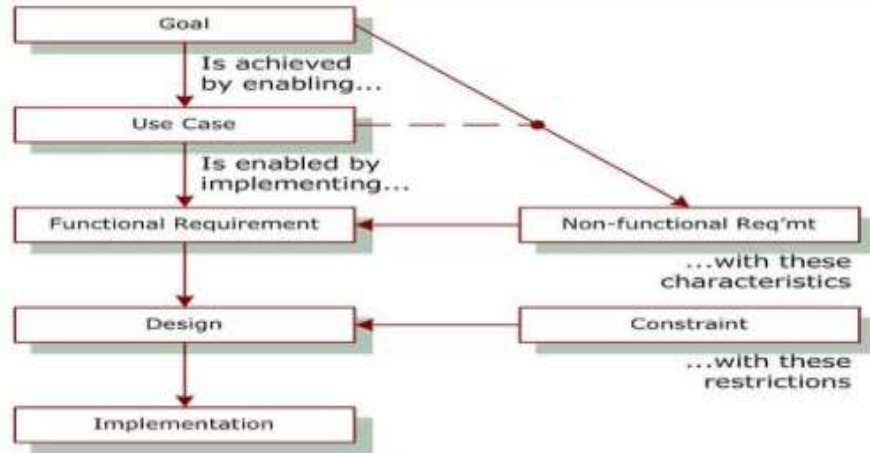


Figure 5. Reference of function and non-function

Figure-5

Reference of function and non-function is shown

Scalable

The system should be scalable because when the interface design will be acknowledged it will have integration of multiple users and when multiple users will be used in different types of considerable activities will be performed. The system should be scalable so that all types of workload can be organized and as the workload is organized it can be modified anytime so the requirements will be different so the system should support the requirement based working

Security

Security is important because we have to see that all types of security references can be properly accomplished as we require that multiple accounts can be associated in the workability can be properly defined. Multiple types of encryption algorithms for example the secure socket layer will be utilized for the information transfer and based on communications when through the interface the related working will be performed

Legal

Legal associations are required to be achieved as we require that all types of references based on legality should be properly provided to the users. Multiple types of references data required to be acknowledged for the workability has to be properly defined.

Maintainability

The related resources that are required to be managed has to be properly established by the service provider and all types of service provision that will be acknowledged can be modified in different considerations also. Centralized working will be supported because we require that centralized reference of the control is important because multiple clients will be using it onto the service bases

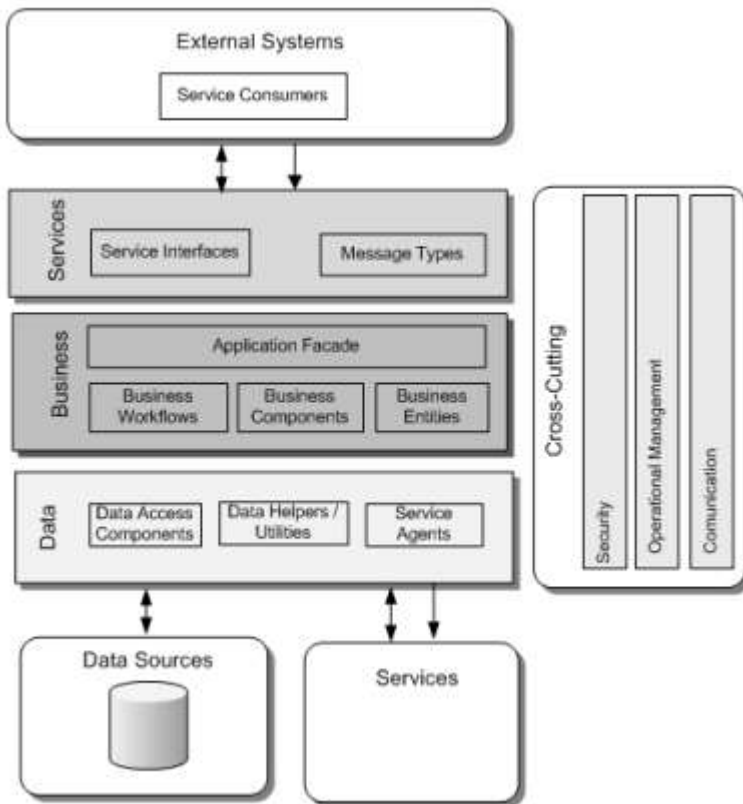
Multi operation

Multiple operations can be performed with the help of the system this will help to make the workability more flexible has multiple types of relational activities can be performed and this will be very much helpful also for the organizations when they have to reference multiple types of client related working at the same time.

4. SYSTEM DESIGN

4.1 SYSTEM PERSPECTIVE

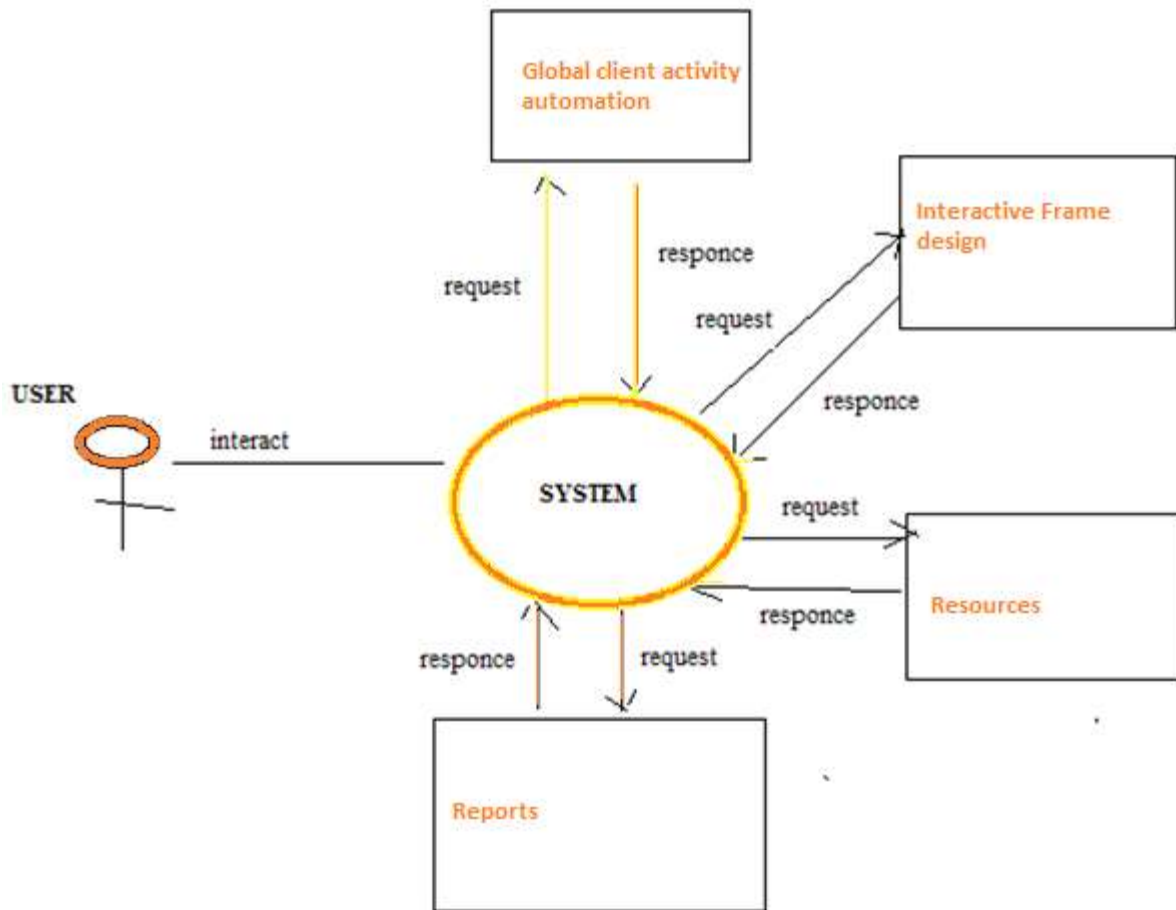
Architectural diagram shows the detailed plans of the system components in different level of implementation



Service architecture diagram

4.2 CONTEXT DIAGRAM




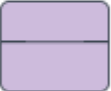




Context diagram shows the information at a glance which includes all the scope and boundaries of the system. Context diagram easy to draw and no technical knowledge is assumed while designing it

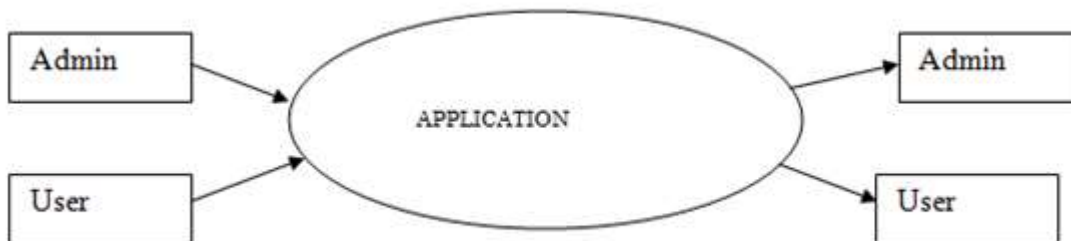


Context diagram

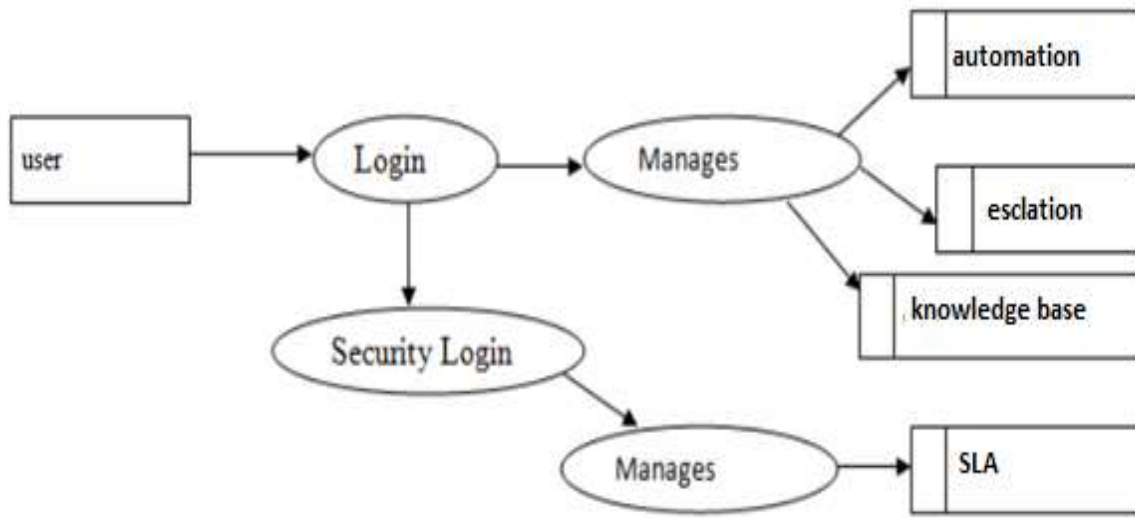
4.2.1 DATA FLOW DIAGRAMS

The information flow for different types of identities where the outputs and inputs are required to be established is done with the help of data flow diagram

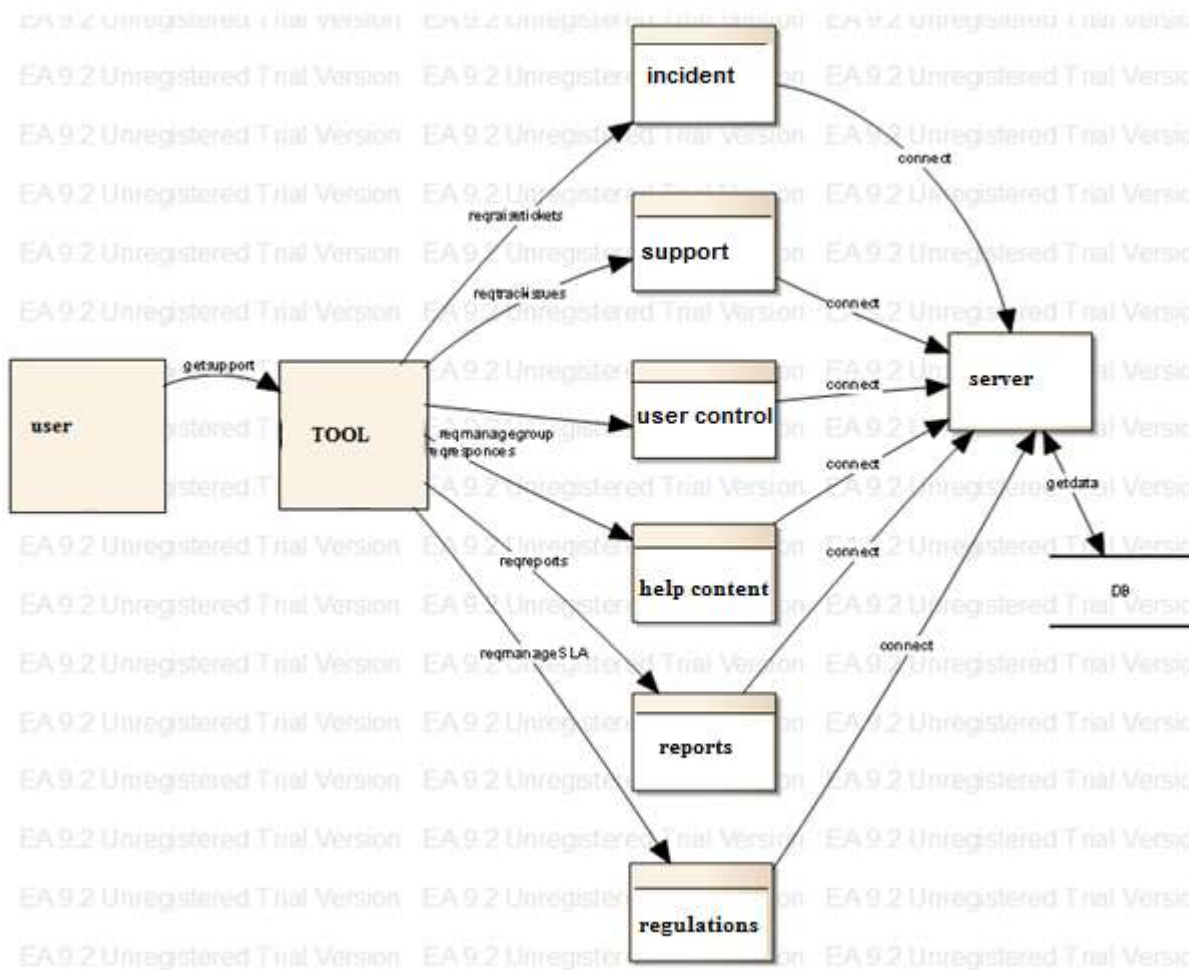
	Yourdon and Coad	Gane and Sarson
External Entity		
Process		
Data Store		
Data Flow		



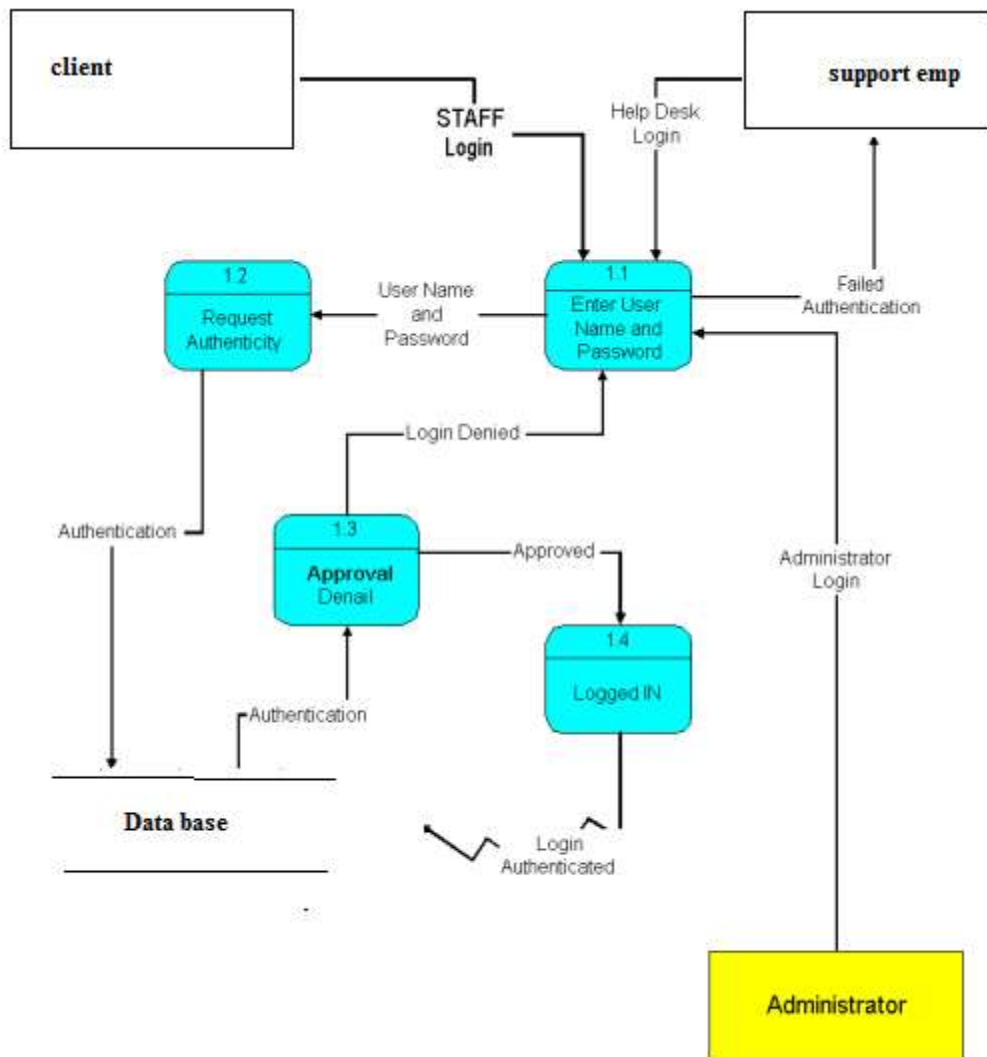
Level 0-dfd diagram



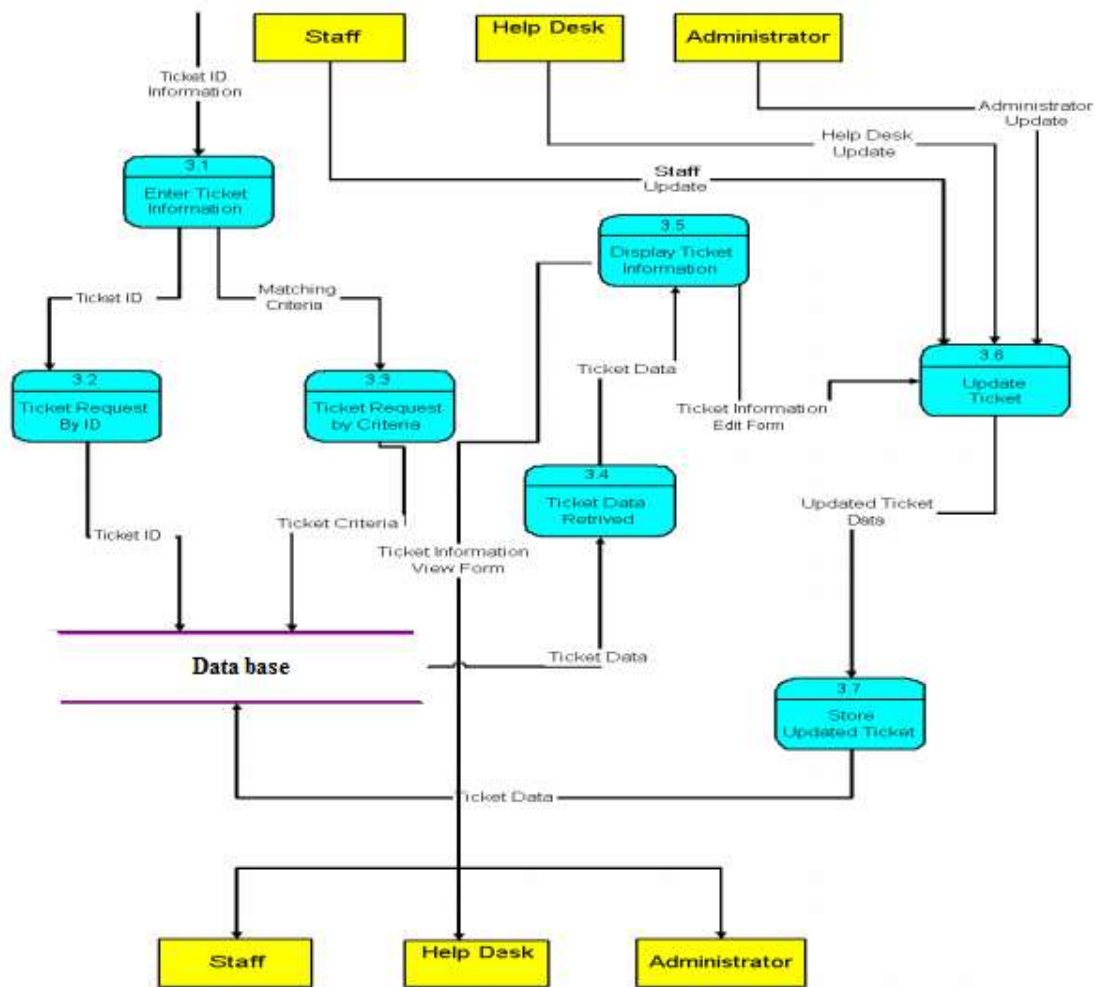
DFD diagram



Overall DFD



Login DFD diagram

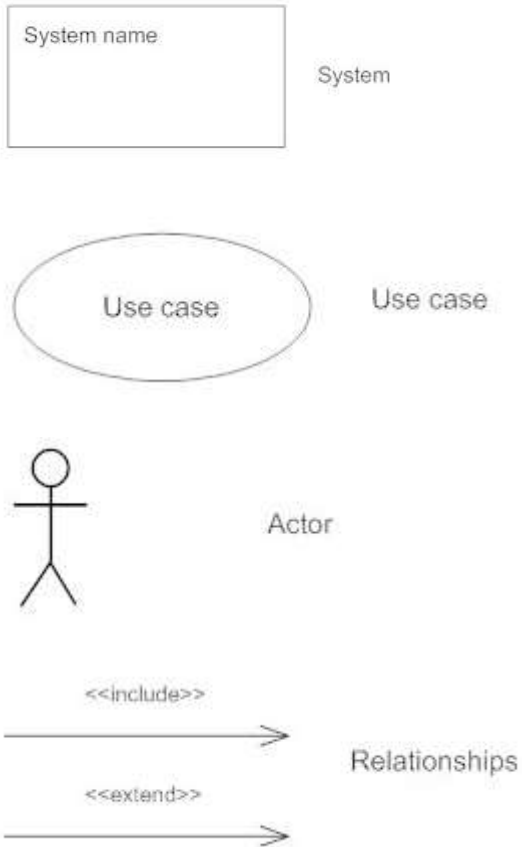


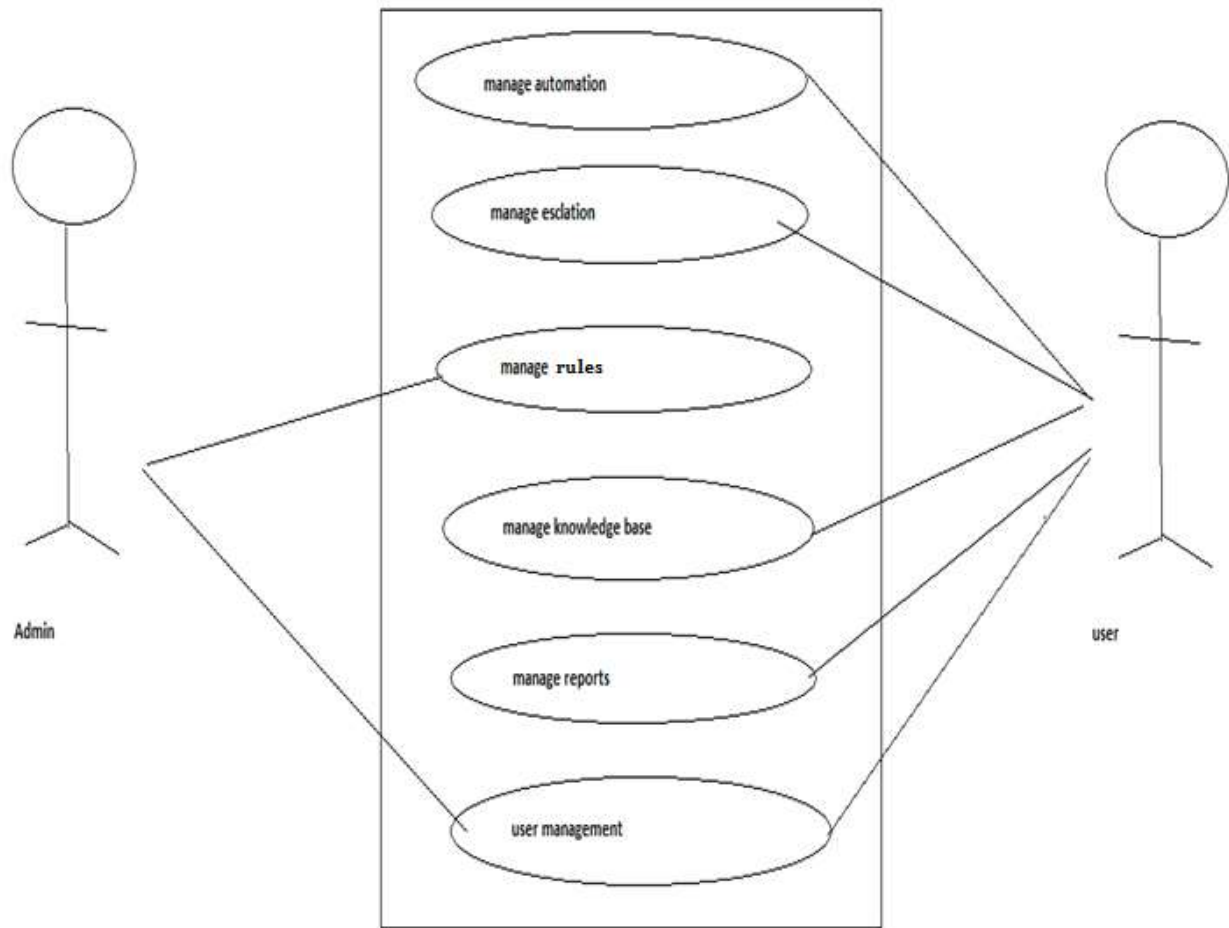
Dfd diagram

5. DETAILED DESIGN

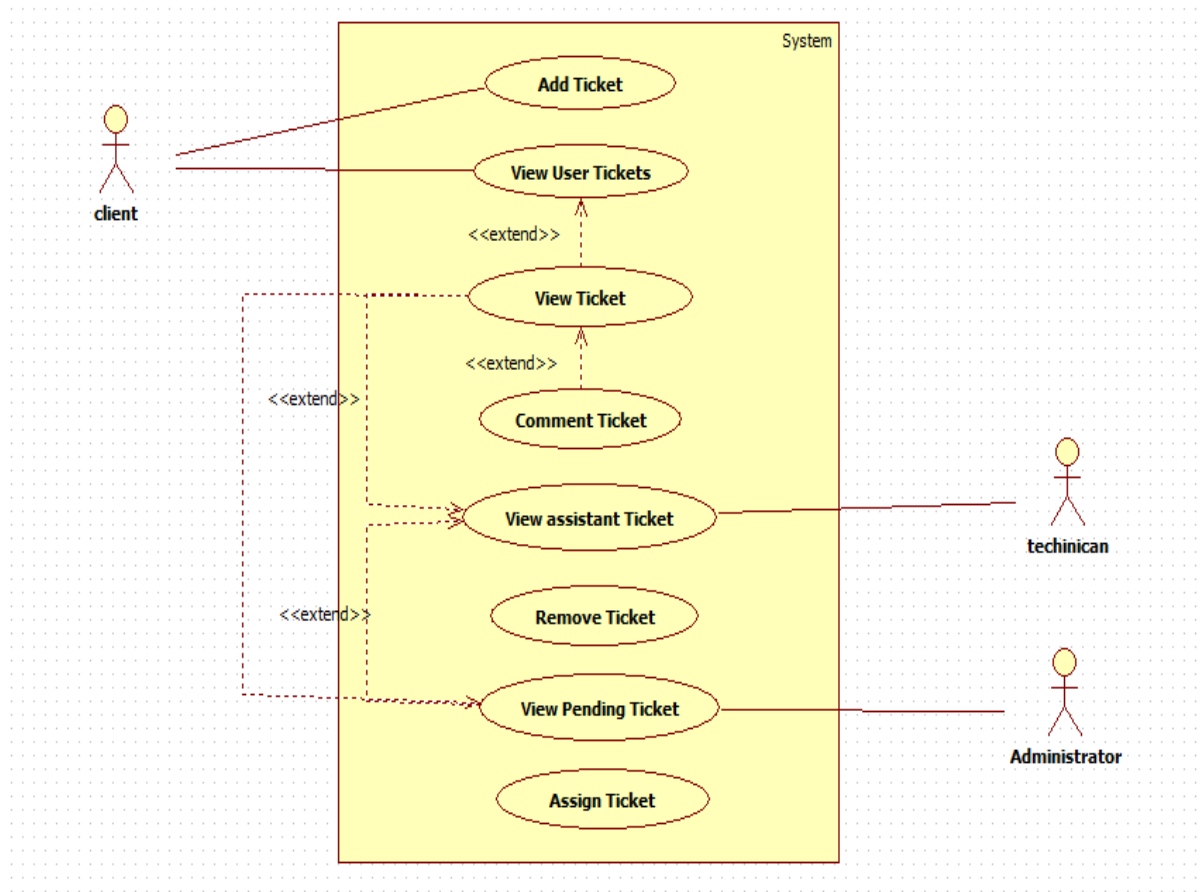
5.1 USE CASE DIAGRAMS

All the related actors and the related processes that will be undertaken for achieving a goal is being acknowledged in the use case diagram

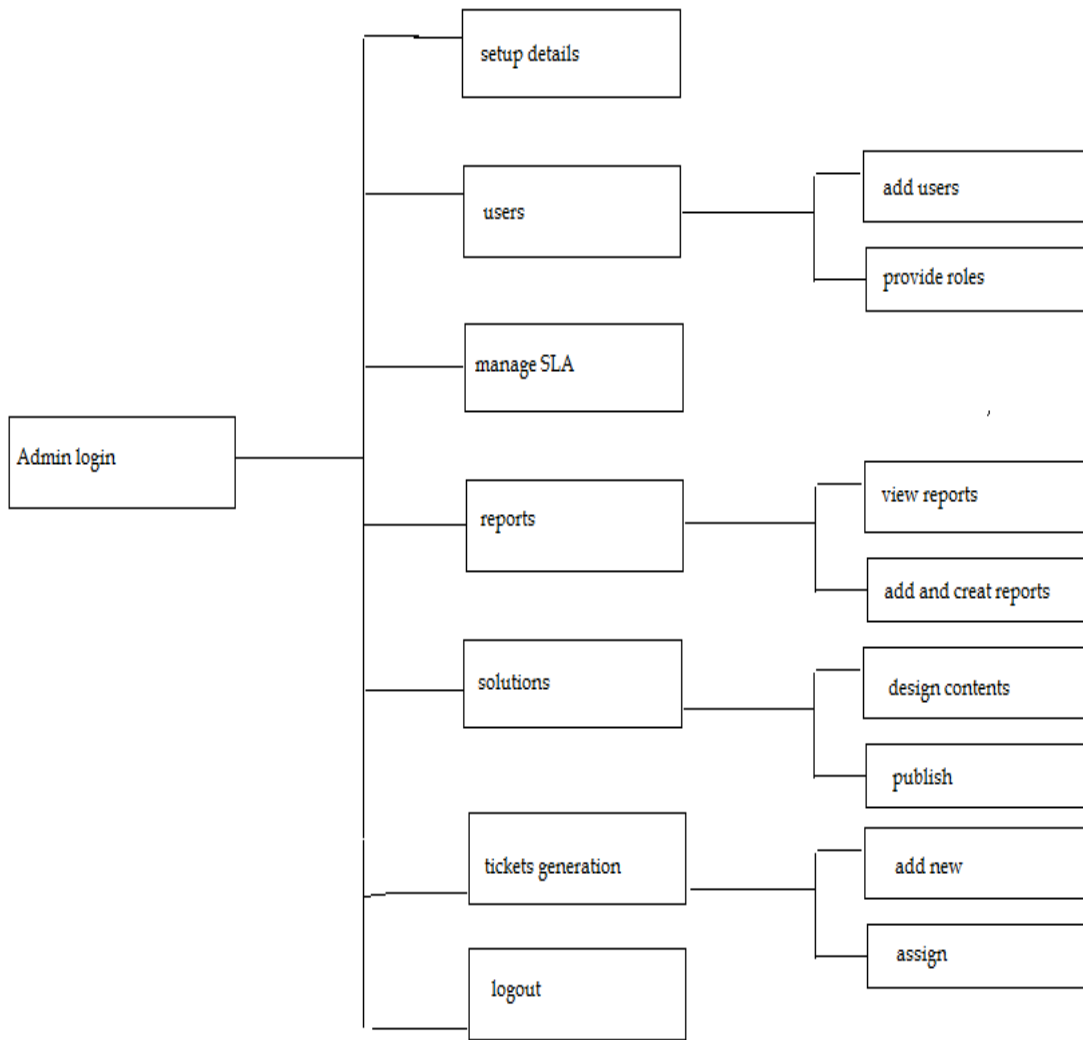




Use case diagram



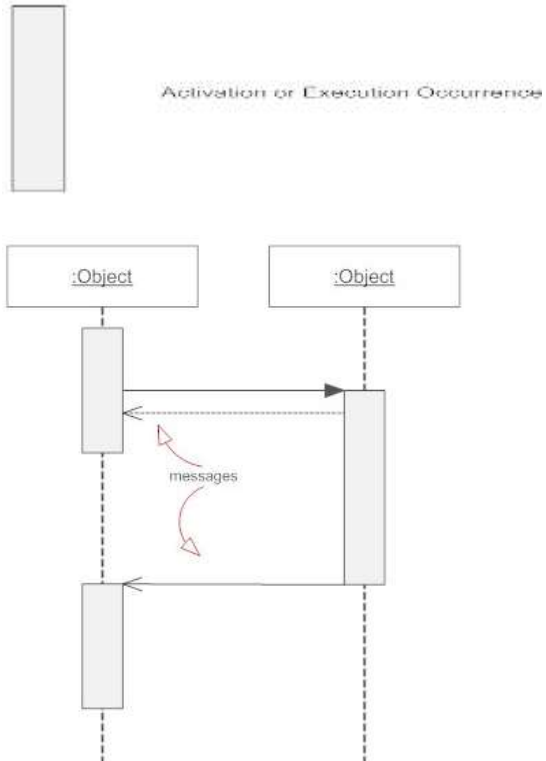
Use case diagram only escalation

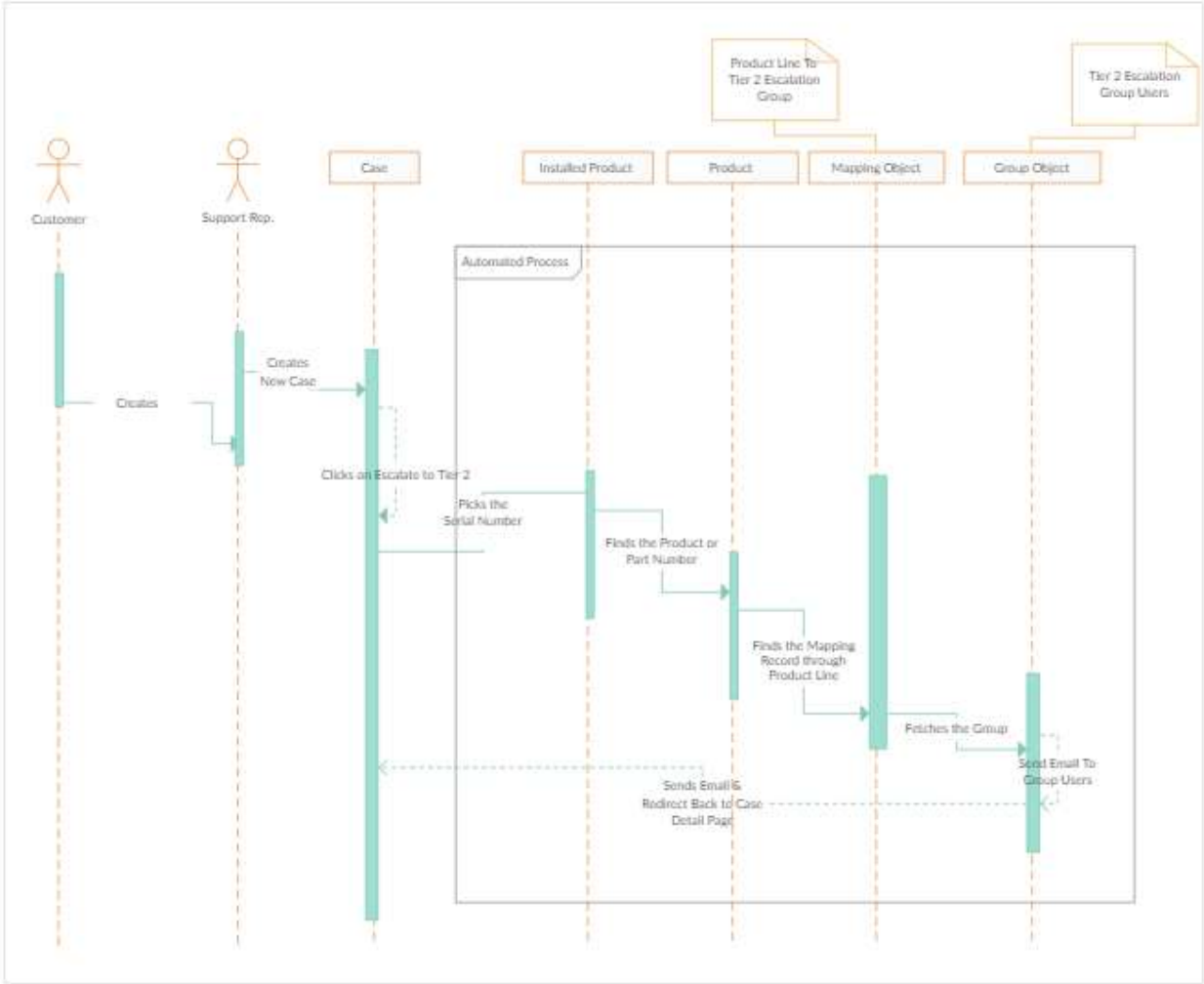


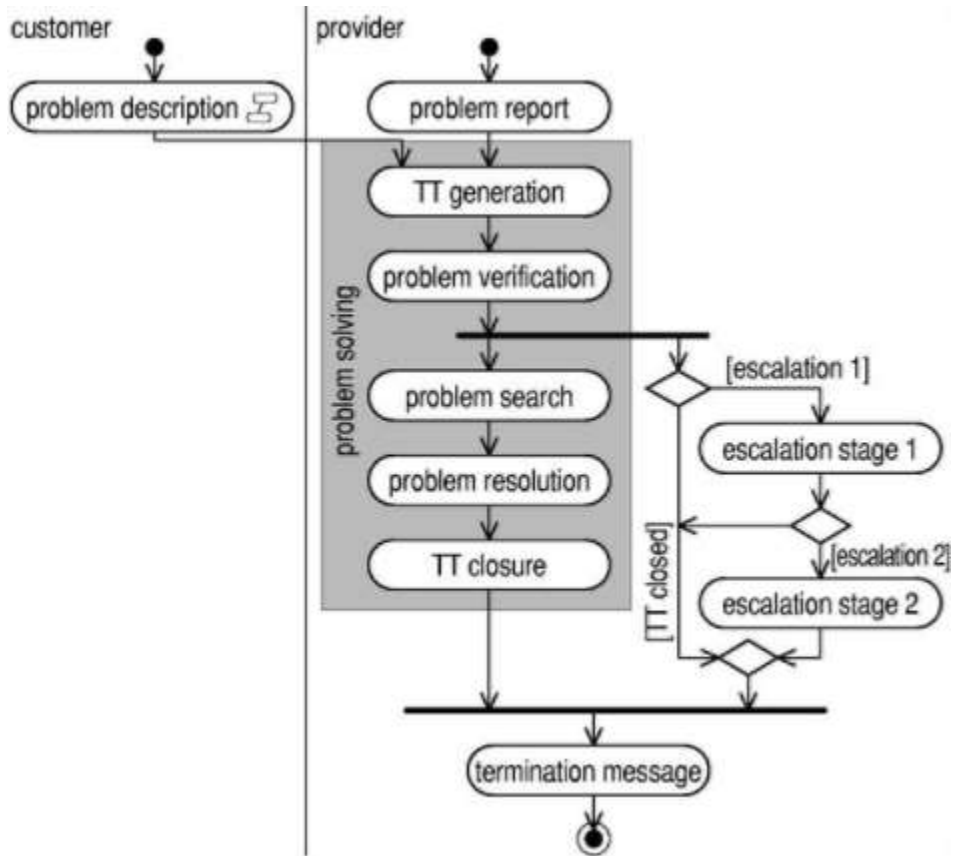
Menu diagram

5.2 SEQUENCE DIAGRAMS

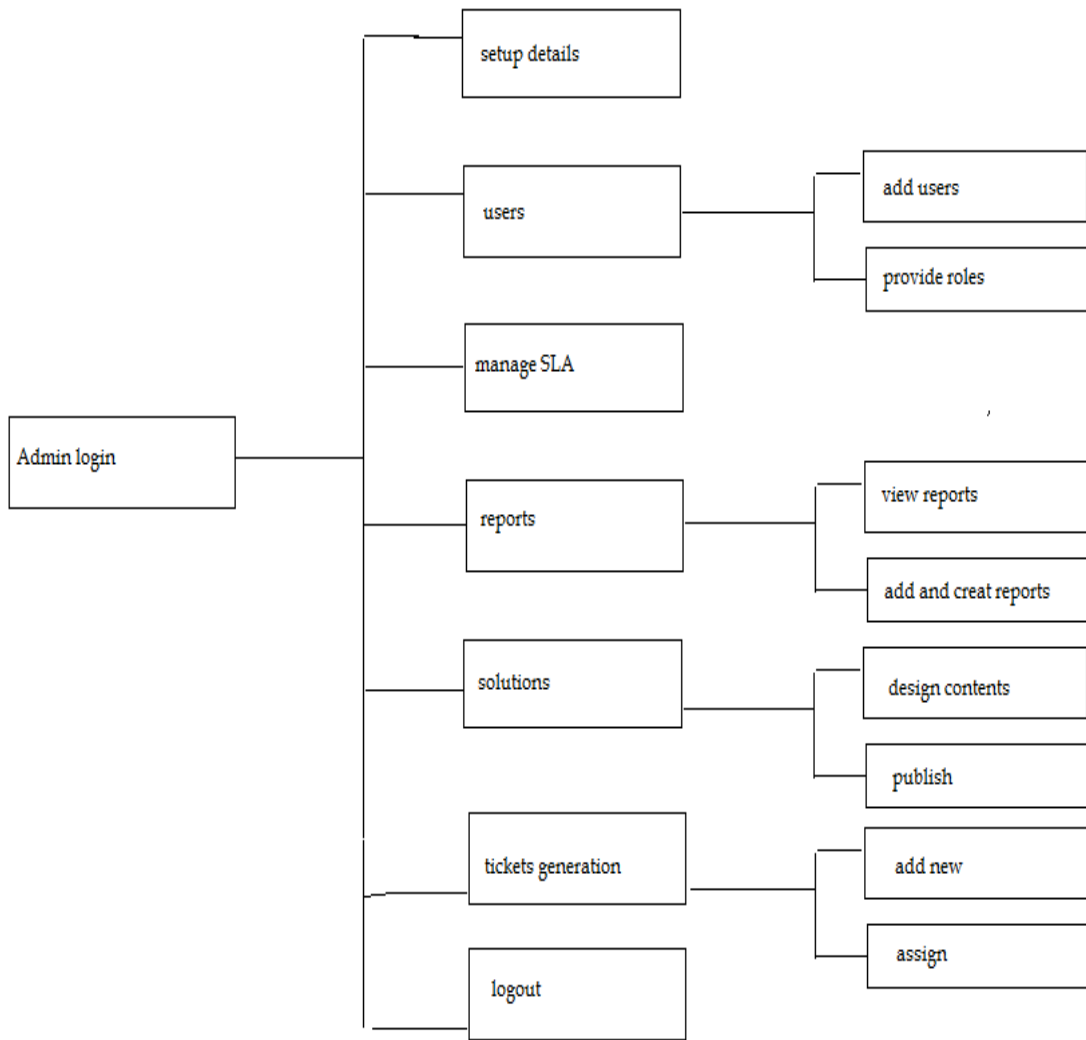
Sequence diagram represents individual use cases where external actors and the related messages that are invoked will be shown







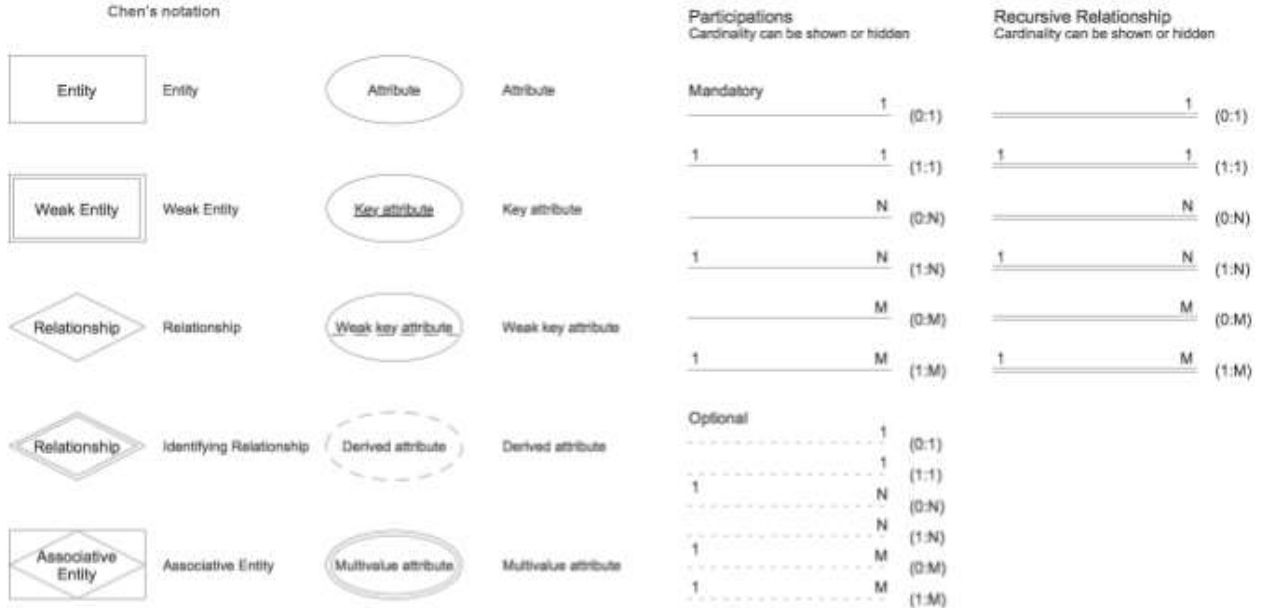
Activity diagram

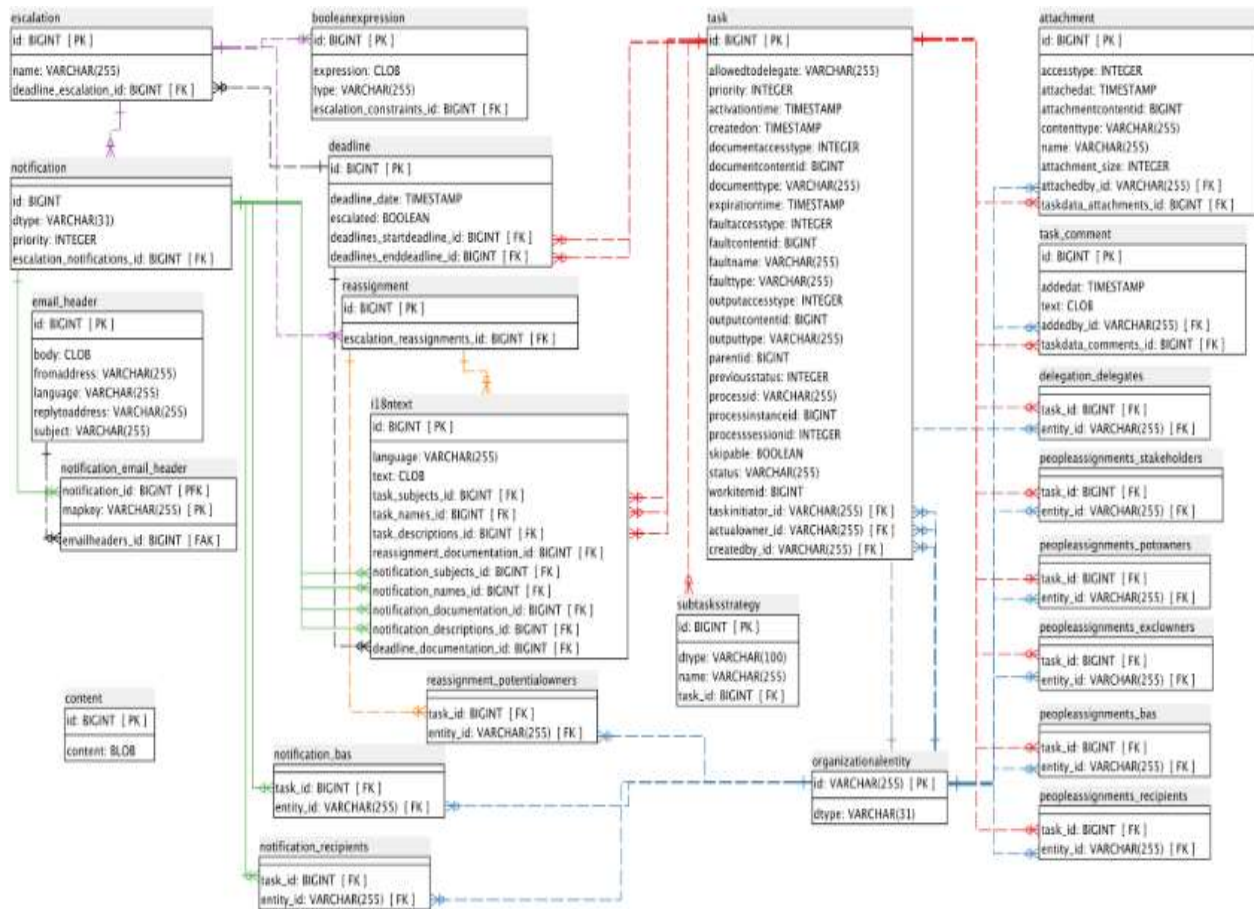


Menu diagram

5.4 ENTITY RELATIONSHIP DIAGRAMS

Entity model helps us to understand the related entities and all types of related modeling based on the relationships and attributes will be performed

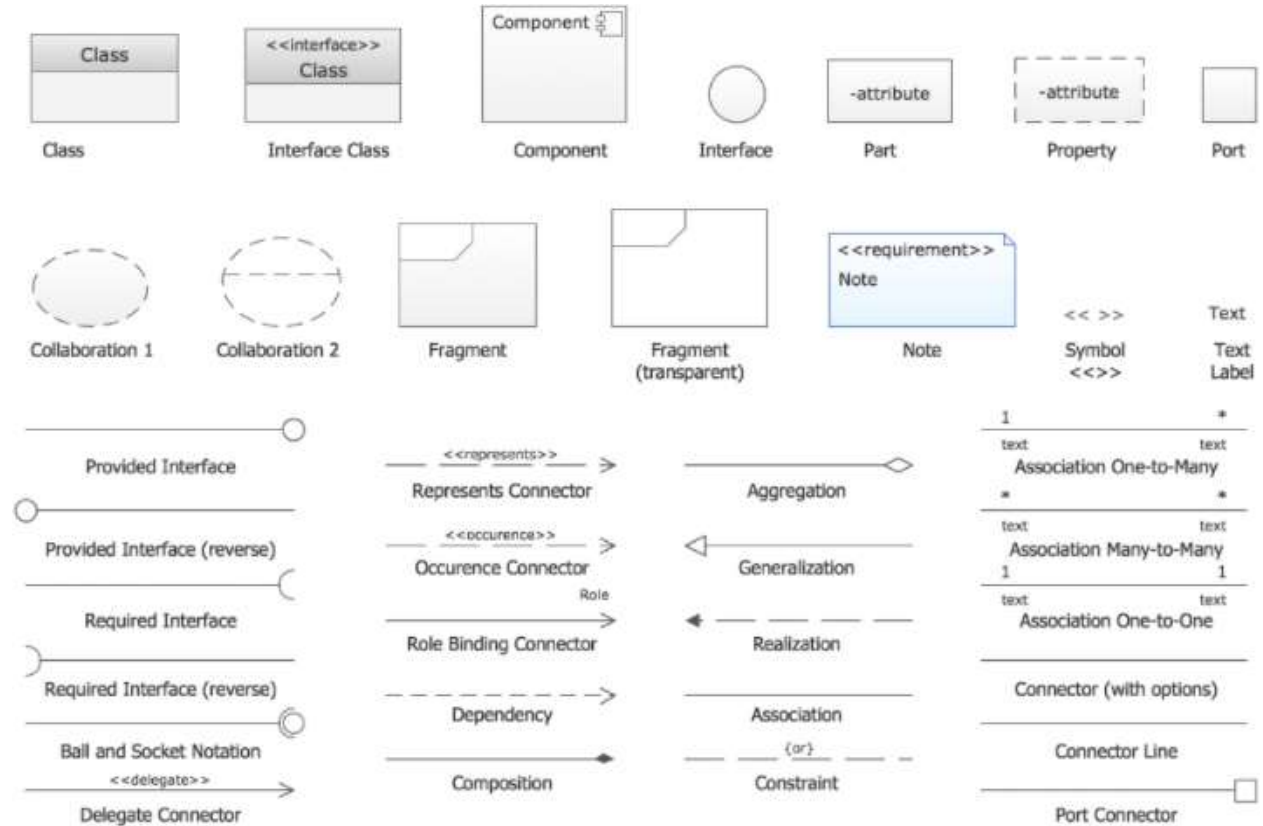


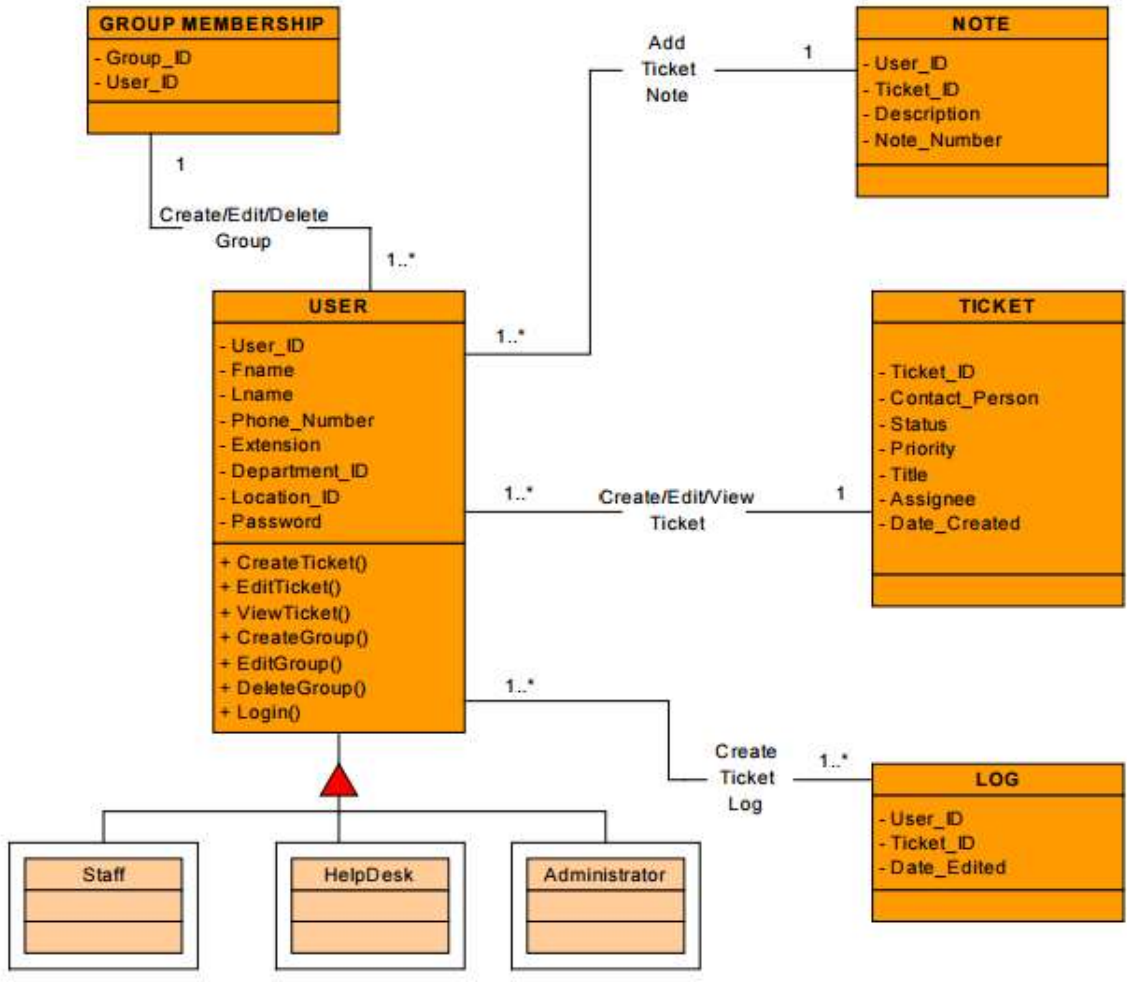


ER diagram

5.5 CLASS DIAGRAM

Class diagram is a reference where the structure is described in the format of classes attributes operations in the relationships

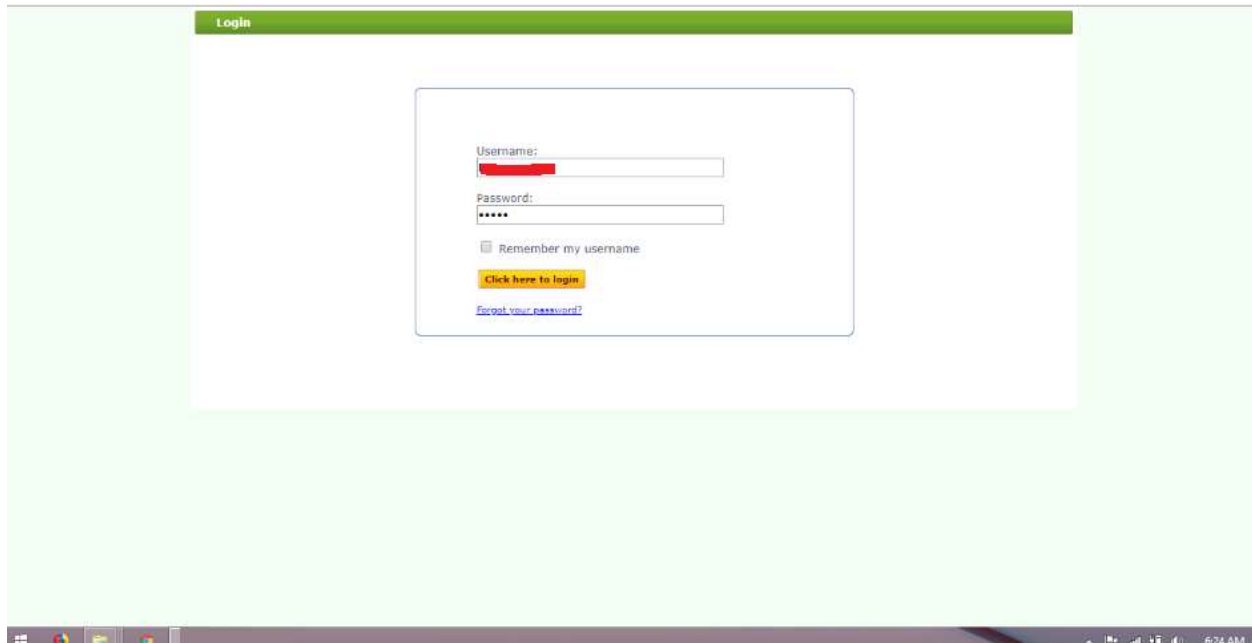




Class diagram

6. IMPLEMENTATION

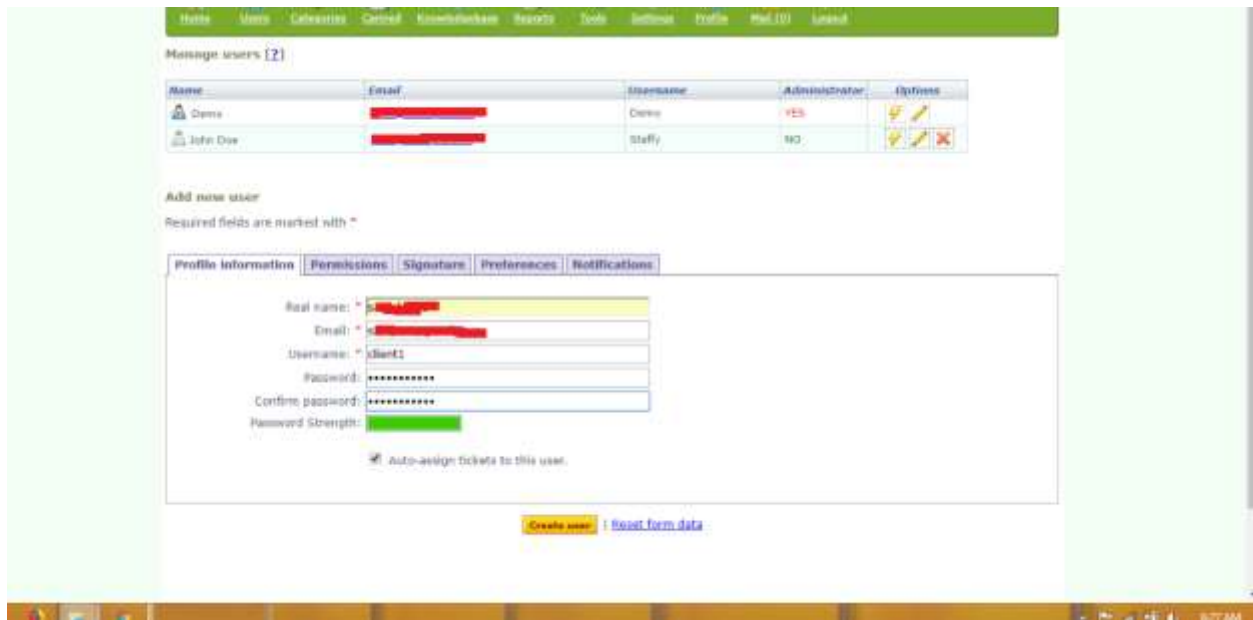
6.1 SCREEN SHOTS



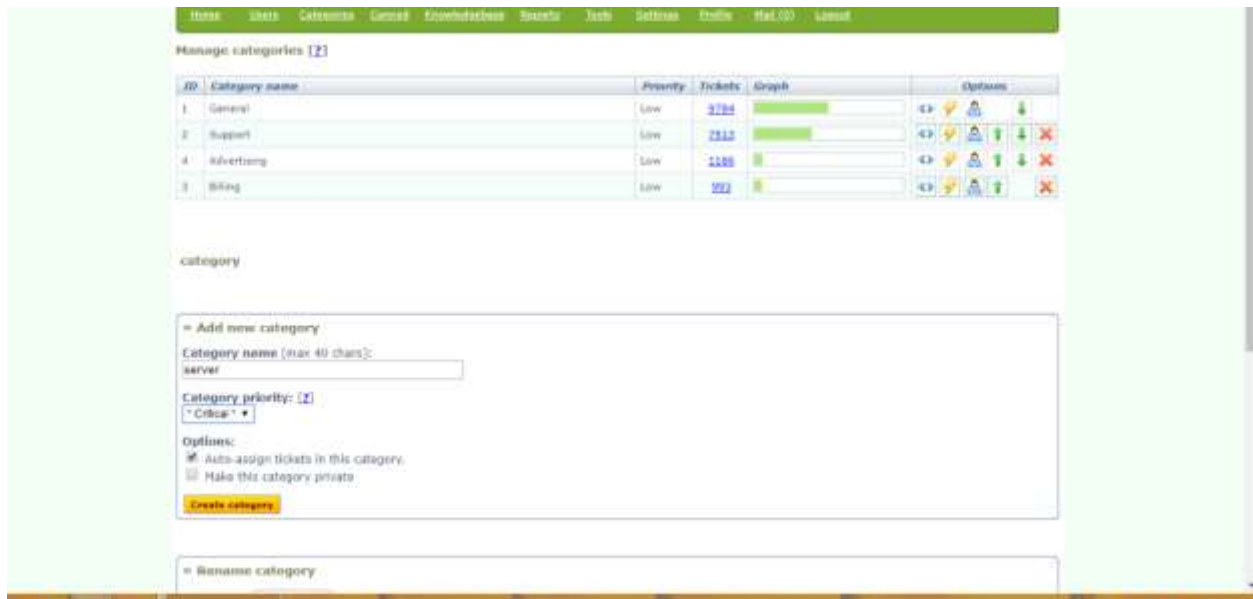
Login (admin)



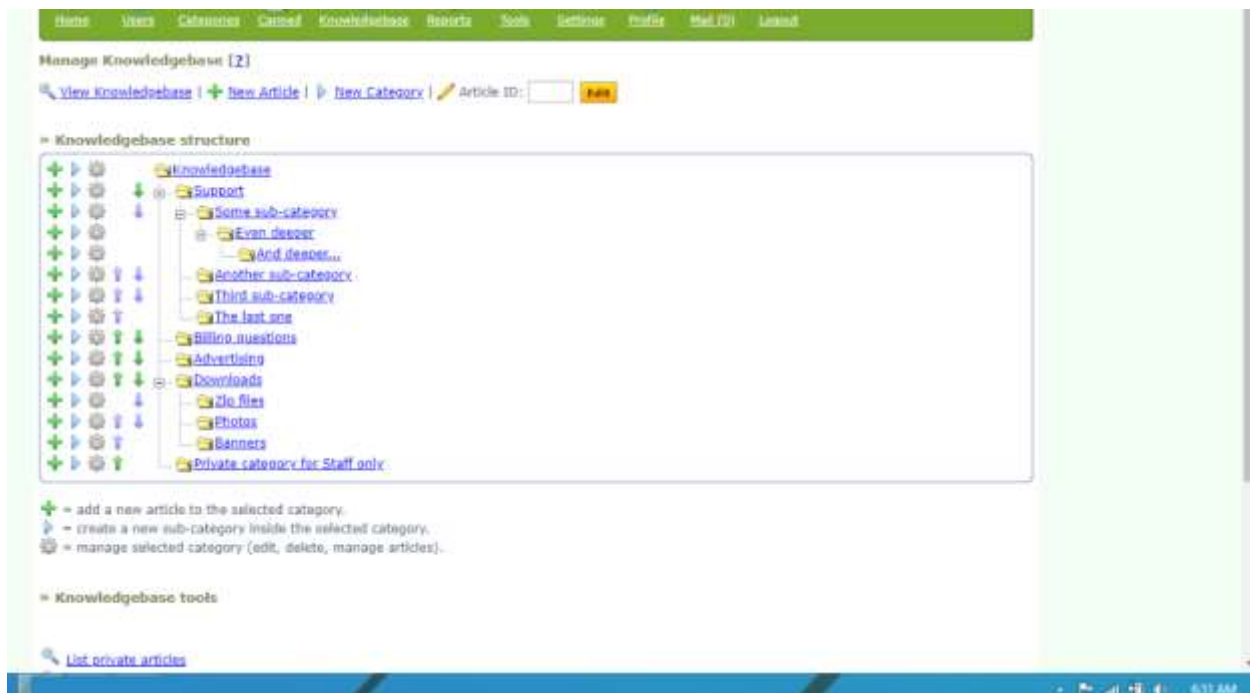
Auto issue drafting page



Adding users with rights



Defining-categories



Knowledge design



Article-design with various provisions

Run reports [7] | [Export tickets](#)

Date range: This month (April) From 03/09/2020 to 04/15/2020

Report type: Tickets per day

[Disable Report](#)

April 1, 2020 - April 15, 2020

Date	New tickets	Open	Resolved	Time worked
Totals	44	15	29	370:15:05
April 1, 2020	1	0	1	00:00:17
April 2, 2020	2	0	2	00:00:14
April 3, 2020	3	1	2	05:00:11
April 4, 2020	4	0	4	00:02:08
April 5, 2020	4	1	3	00:00:46
April 6, 2020	4	2	2	00:00:47
April 7, 2020	2	1	1	305:00:39
April 8, 2020	0	0	0	
April 9, 2020	3	1	2	00:00:32
April 10, 2020	4	1	3	00:01:30
April 11, 2020	4	1	3	00:01:18

Report display

Run reports | [Export tickets \[7\]](#)

Date range: This month (April) From 03/15/2020 to 04/15/2020

Status: New Resolved Custom status Waiting reply In Progress Needs review Replied On Hold Shipped

Priority: * Critical * High Medium Low

Show: Assigned to me Unassigned tickets Assigned to others Only tagged tickets

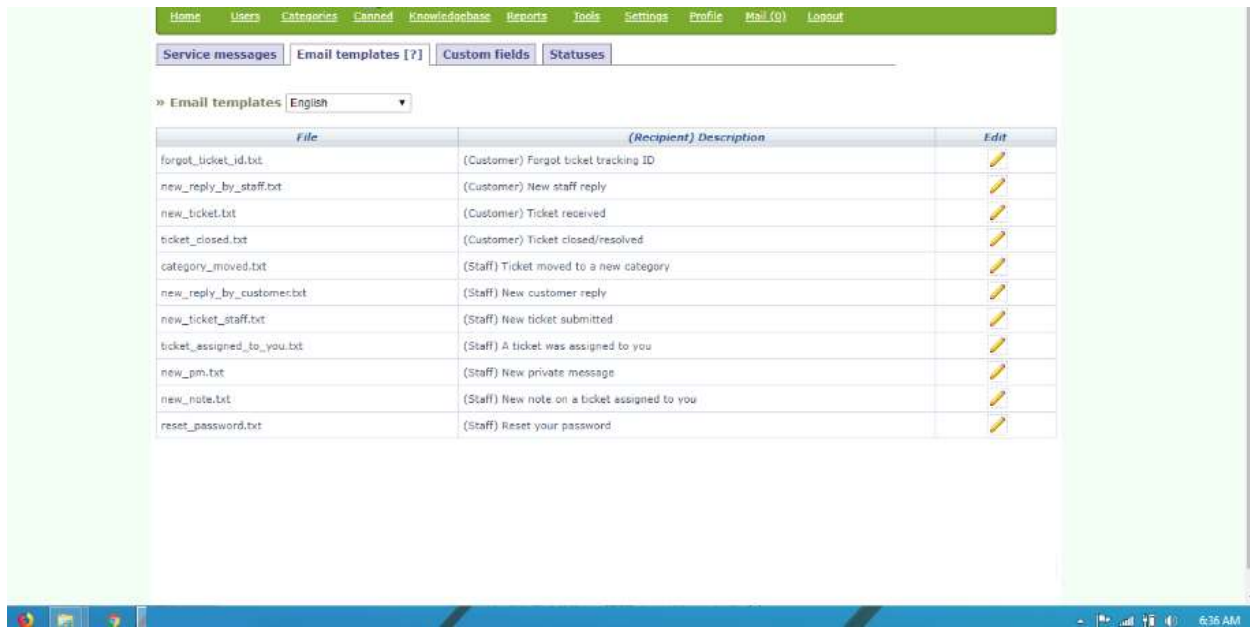
Sort by: Priority Subject Updated Status Name Sequentially

Category: Any category

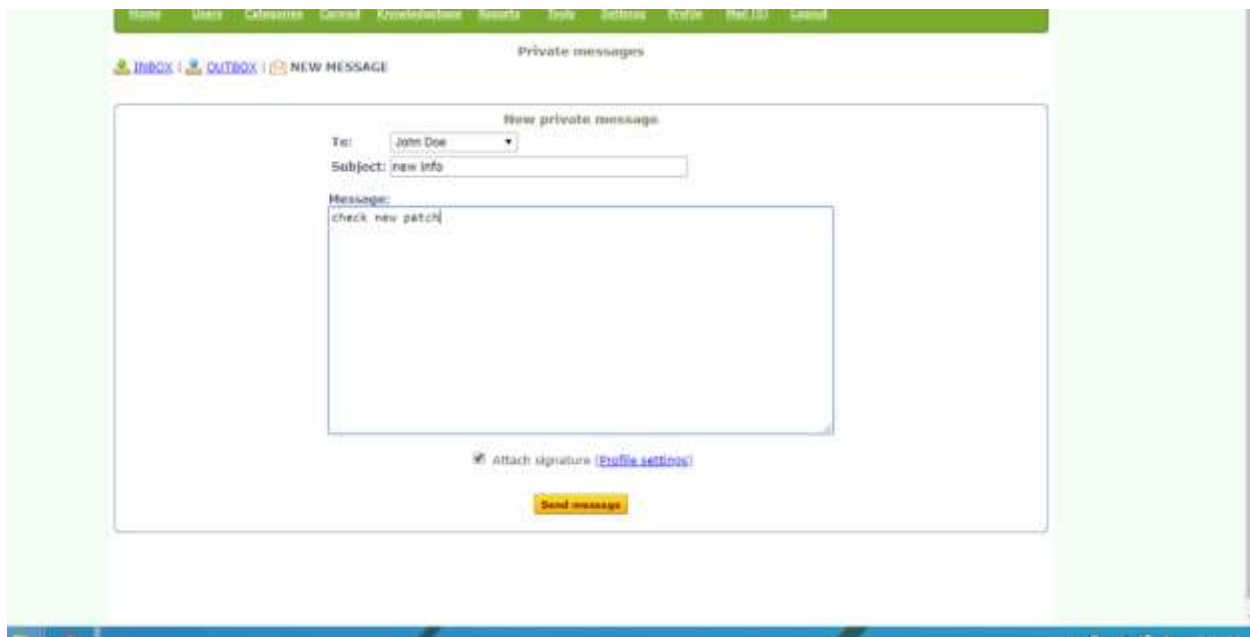
Order: ascending | descending

[Export tickets](#)

Transfer detailed reports in export format



Templates for reusability(different types provided)



Communication mails

Insert a new ticket

Required fields are marked with *

Name: *

Email: *

Priority: *

Custom field:

Custom select:

Ticket templates ([help](#) | [cancel](#) | [refresh](#))

Add to the bottom

Replace message

Select a ticket template:

Subject: *

Message: *

Attachments: No file chosen
[File upload limits](#)

Admin consideration for the issue (added details)

7. SOFTWARE TESTING

Software testing is established to have all types of definition related to the associated features that are provided within the system. We have to reference properly that all types of consideration that are provided works properly in the real time. We have to establish improper relationships so that the accepted can be acknowledged as different types of clients will be having different types of references in real time the system should work exactly the same way. System is design for automation activities multiple considerations of the workability have to be associated and system should provide all related professional aspects in the real time.

Software testing is important as we have to check the related client requirements in real time scenario when the requirements we discussed it have to be now checked that according to the requirements the features behave in real time. Multiple types of testing references are included because we have to check that each reference of The Separation techniques works properly because it is required that a proper quality has to be maintained. Multiple types of references can be checked and multiple types of techniques can be implemented for different types of Differential workability check. Conditional working will be properly associated as the condition of scenario differs in the real time. Detailed acknowledgment will be established with the help of the test cases.

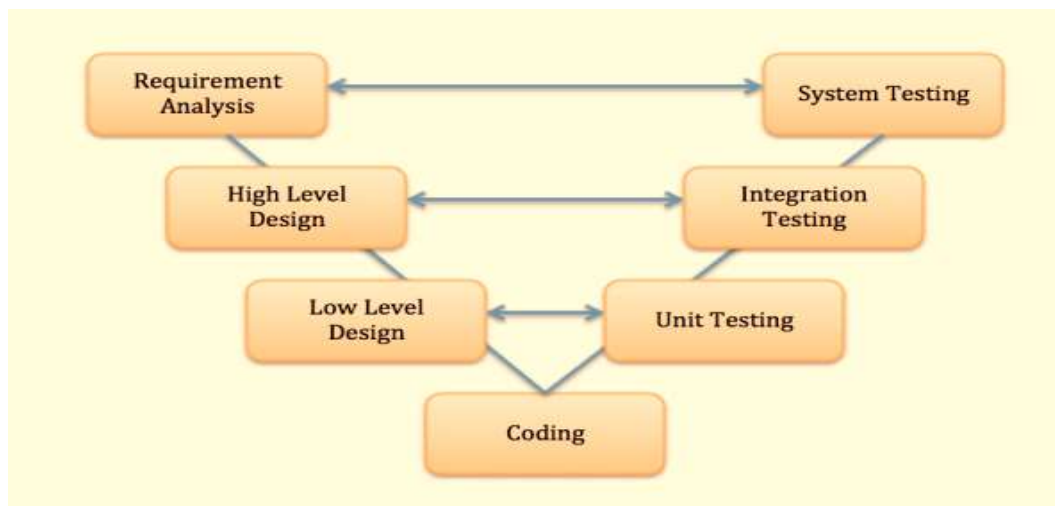


Figure 6. Software Testing Life Cycle

Figure 6

Shows the considerations of testing

Unit testing

We are performing the unit testing as we want that all types of unit should work individually in a proper way and The Residency should be properly designed

The related code coverage and data flow analysis will be performed to check that each and every unit works properly and the relationships are properly defined

All types of references based on automation has to be check with different conditional setup

Various types of references of the Information retrieval that is incorporated and even different types of conversions of the information based on charge should be checked properly

The accomplishment of different types of activities that are related with the system in the format of inter operations will be also checked

Considerations of security will be also checked as different types of data repositories and synchronization formation are required to be undertaken

We will be considering multiple user working and the interface design that will be used by the clients

Automation testing

Automation Testing is best because we have to acknowledge the related references properly and when the references are required to be checked in multi scenario we can do it with the help of Selenium software by running multiple cases

Automation references are very much important to be considered because it will save the time and even less manpower is required to acknowledge the related automation references

Test cases

Serial	Test-case	Test-Input	Results	Actual	Checked	Severity
1	Admin	Data provided	Various settings provided	Settings provided	Pass	Critical
2	Client interface	Rule controlled	Interface working defined	Different considerations added	Pass	Critical
3	Teams added	Selective additions	Different inputs provided	Teams added and working is associated	Pass	Critical
4	Help	Design oriented	Design help provided	Different help contents added	Pass	Critical
5	Triggers	Input provided	Options for the setups provided	Triggers added	Pass	Critical
6	Scalable	Automated	Load acknowledgment	Different reference of data provided for the cloud management	Pass	Critical
7	Operations	Setup based	Various operations support provided	Different parallel operations	Pass	Critical

				provided		
8	Reporting	Selective and auto	Details of selections provided	Different report reference is associated and different matrix allocation seen	Pass	Critical

8. CONCLUSION

Multiple types of working based on technology and different references of automation can be properly generalized from the system by incorporating different types of regulations. The type of references that are required to be generated by different types of organizations in terms of work accomplishment is associated and each consideration is provided in such a way that all types of working provisions can be properly established by different account holders. We have use the system for integrating multiple types of clients worldwide and found that each client can be properly established with different types of variations of collaborative activities. Multiple activities when performed are also provided with a detailed health where the system provides multiple types of design contain so that associated understanding can be more improved.

We have also acknowledge the system provides multiple types of references based on Automation Testing so when we have provided multiple types of condition the system work accordingly. Multiple types of plant related activities can be promoted at the same time with the help of the system so we have utilize the system in multiple consideration and found that each provision is successfully implemented. The extraction of the activities of consolidated in when we have utilized the different types of technique references it was quite easy to undertake the operations so we can say that it is refundable for different types of organizations for automated processing of different activities from a single system. The Useful information that is required for the control provisions is also provided so when we have entered the inputs in the report format multiple types of report formations where provided. All types of information that is provided are included with real time information and even if required the reference is can be changed.

9. FUTURE ENHANCEMENTS

Enhancement is needed and we have to reference all types of enhancement properly so multiple types of auditing will be conducted and in reference to the auditing all types of related references will be designed and will be included for the future Optimization. Some of the important references that are being discussed and will be included in the future are listed as following-

The report generation which is included can be optimized with more variations of graphical representation and even it can be added with more sharing options

Help should be provided with detailed content variation for example video examples can be added

Some important resources can be added so that it can be utilized by the users in real-time for undertaking different types of consideration

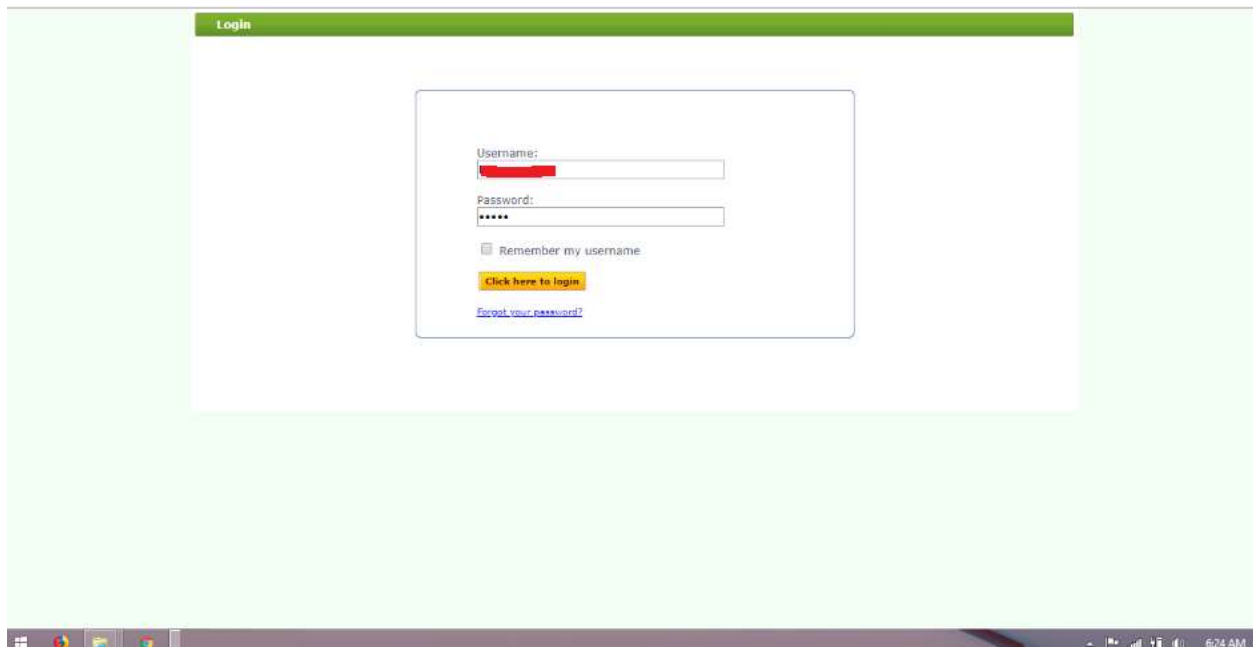
BIBLIOGRAPHY

- "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.

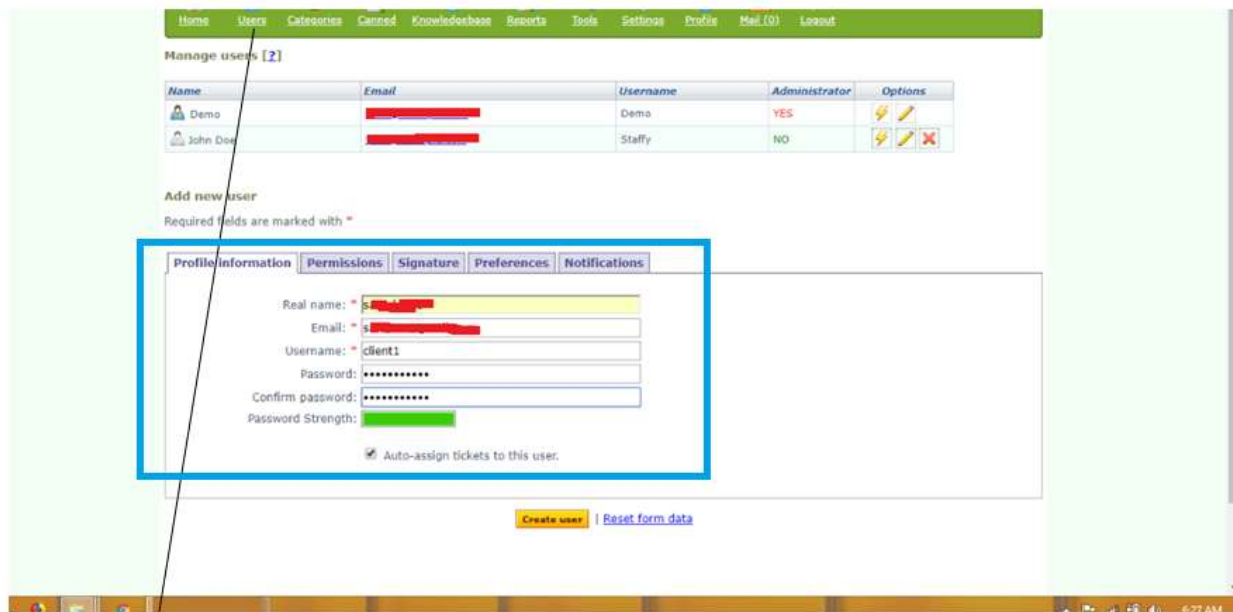
Web referrals-

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

USER MANUAL



Login(admin)



Adding users with rights

Home Users Categories Canned Knowledgebase Reports Tools Settings Profile Mail (0) Logout

Manage categories [2]

ID	Category name	Priority	Tickets	Graph	Options
1	General	Low	9784		
2	Support	Low	7512		
4	Advertising	Low	1186		
3	Billing	Low	993		

category

» Add new category

Category name (max 40 chars):
server

Category priority: [2]
Critical

Options:
 Auto-assign tickets in this category.
 Make this category private

Create category

» Rename category

Defining-categories

Home Users Categories Canned Knowledgebase Reports Tools Settings Profile Mail (0) Logout

Manage Knowledgebase [2]

[View Knowledgebase](#) | [New Article](#) | [New Category](#) | Article ID: [Edit](#)

» Knowledgebase structure

- Knowledgebase
 - Support
 - Some sub-category
 - Even deeper
 - And deeper...
 - Another sub-category
 - Third sub-category
 - The last one
 - Billing questions
 - Advertising
 - Downloads
 - Zio files
 - Photos
 - Banners
 - Private category for Staff only

+ = add a new article to the selected category.
 ▾ = create a new sub-category inside the selected category.
 ⚙ = manage selected category (edit, delete, manage articles).

» Knowledgebase tools

[List private articles](#)

6:31 AM

Knowledge design

New knowledgebase article

Category: Advertising (2, 0, 0)

Type: **Published**
The article is viewable to everyone in the knowledgebase.

Private
Private articles can only be read by staff.

Draft
The article is saved but not yet published.

Subject:

Contents:

Paragraph Font Family Font Size

sample knowledge

Path:

Keywords: (optional - separate by space, comma or new line)

Attachments ([File upload limits](#))

No file chosen

Article-design with various provisions

Home Users Categories Canned Knowledgebase Reports Tools Settings Profile Mail (0) Logout

Run reports [?] **Export tickets**

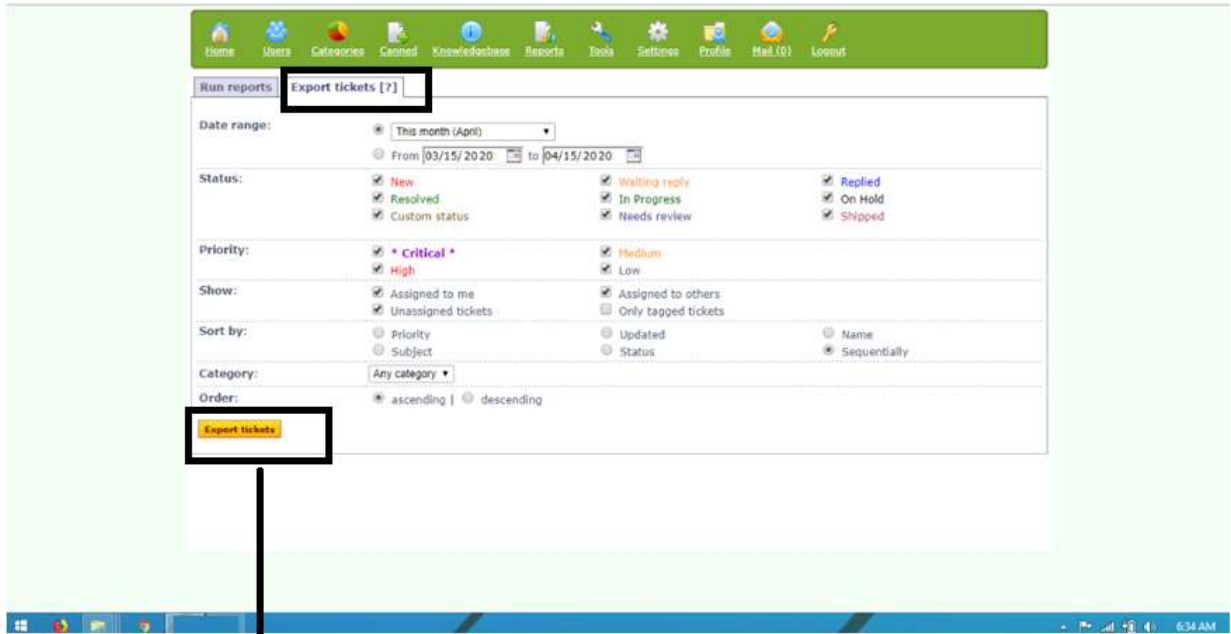
Date range: This month (April) From to

Report type:

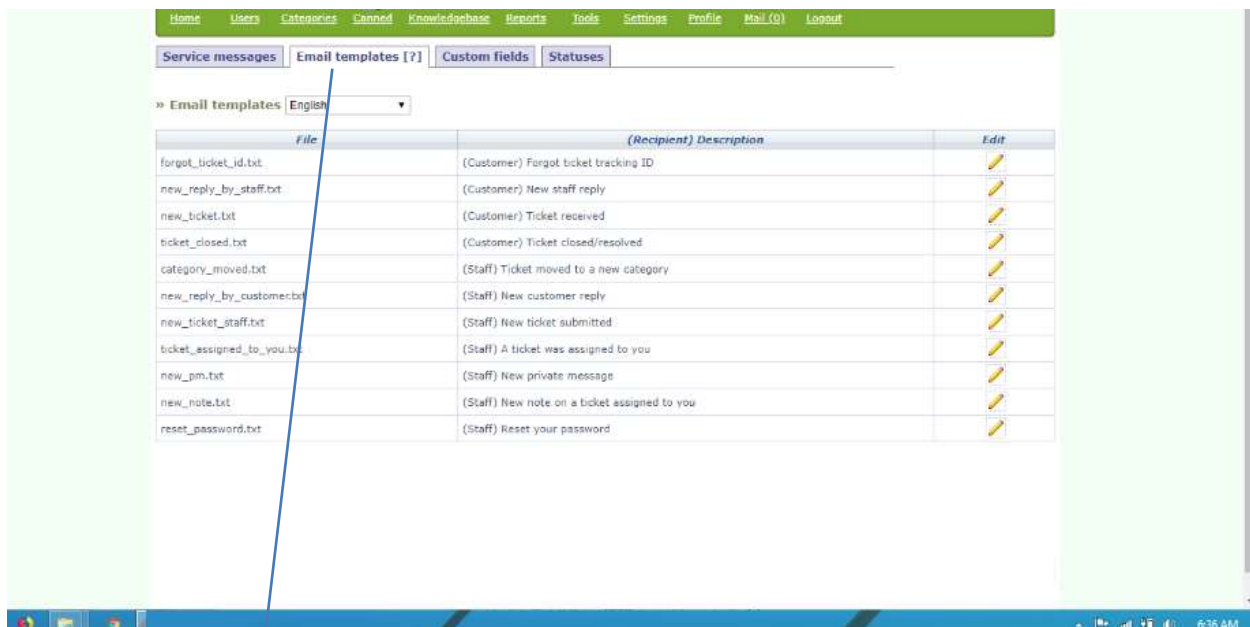
April 1, 2020 - April 15, 2020

Date	New tickets	Open	Resolved	Time worked
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April 7, 2020	2	1	1	365:00:39
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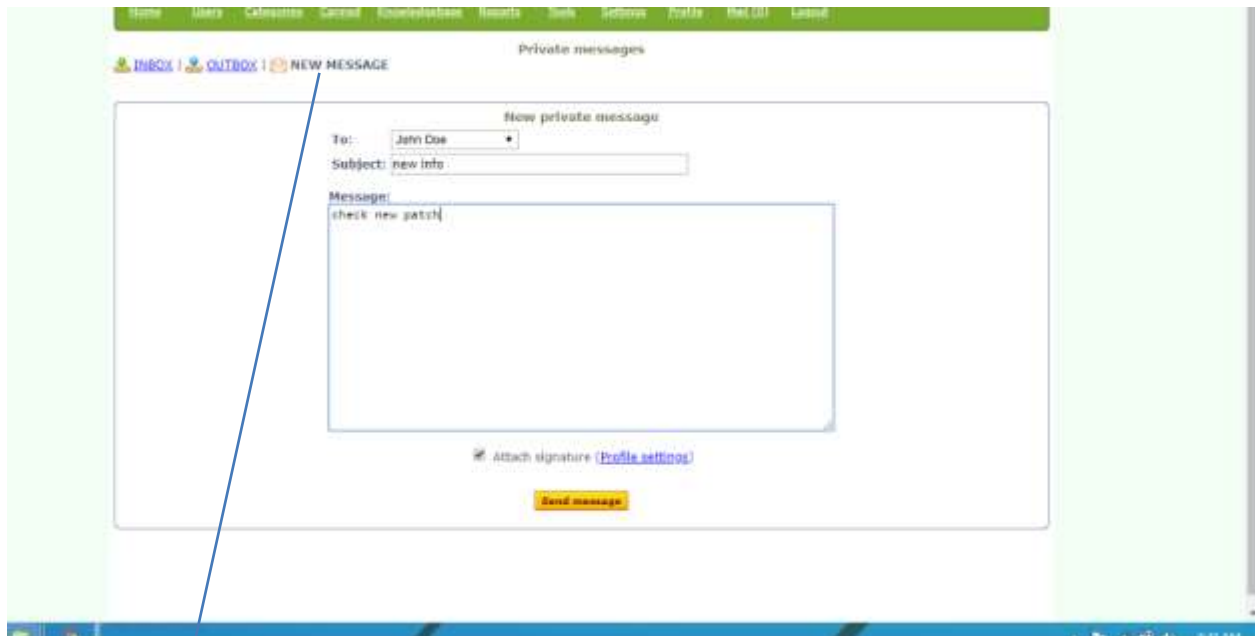
Report display



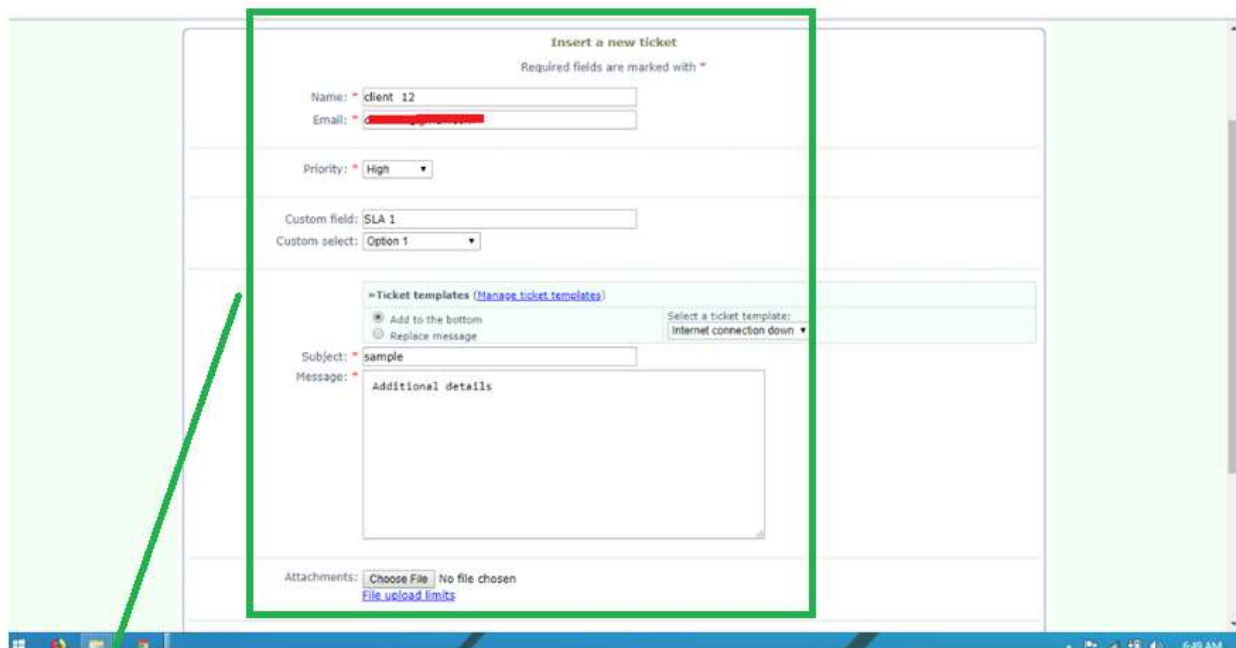
Transfer detailed reports in export format



Templates for reusability (different types provided)



Communication mails



Admin consideration for the issue (added details)