MINI PROJECT

TITLE: BUG REPORTING SYSTEM

Under guidance of

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COMPUTER SCIENCE

Submitted By:

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Acknowledgment

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- ARPIT SHARMA
- DEEPAK

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Introduction

For many years **Bug Tracking Mechanism** is employed only in the some of the large software development house. Most of the other never bothered with bug tracking at all and instead simply relied on shared lists and email to monitor the status of defects.

Bug tracking System is web-based application that is designed to help quality assurances and programmers keep track of reports software bugs in their work. Bugs will be assigned to person with a big id, flag, description, project name.

Some Definition:

Bug: A software **bug** is an error, flaw or fault in a computer program or system that causes it to produce an incorrect or unexpected result, or to behave in unintended ways.

"A **bug** is a coding error in a computer program."

Software Testing is a process, to evaluate the functionality of a software application with an intent to find whether the developed software met the specified requirements or not and to identify the defects to ensure that the product is defect free in order to produce the quality product.

Types of Tests:

- GUI testing,
- Functional testing
- Regression testing
- Smoke testing
- load testing
- stress testing
- security testing etc.,

.Purpose of the Project

Bug Tracking System is to test the application for the bugs and report it to the project manager and developer.

The main intention behind the bug tracking system is that to track bug and report them.

Store the bug information with a unique id in the database.

Functional Requirements:

Main module:

Admin: This module has the entire access to all other modules , admin create the project and assigning the project to the created manager , adding members to the manager , assigning bugs based on the priority.

Manager: Manager has the full access to the particular project assigned by the admin and controls the team member s access to the bugs assigned.

Developer: Can access the task or bug assigned by the manager view assigned projects and resolve the assigned bug. Developer can view the bugs list assigned by the manager.

Tester: Tester can access to the projects or bug assigned by the manager, can view the assigned project and can add a new bug to the list and send the Bug back to the manager. Tester can login to the system and access the assigned projects list.

Reports: Both Admin and Manager can access this module and generate the report based on the requirements.

Software Requirement Specification

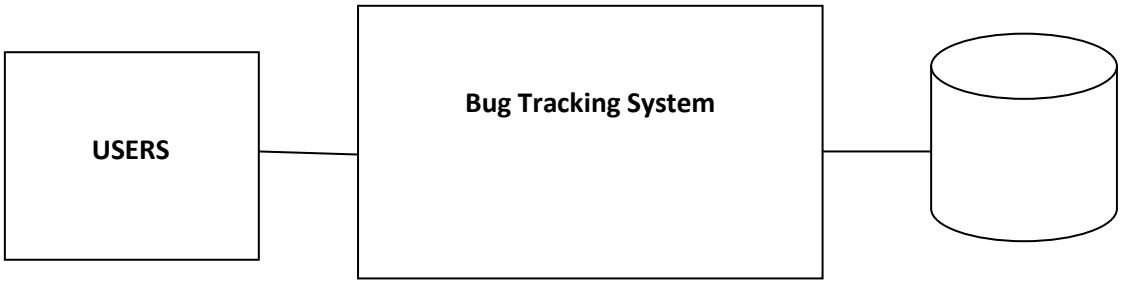
Processor	Core-i3 intel processor
Hard Disk	10GB
Memory	1 GB , 2GB
Display	Standard output Display
keyboard	Standard Qwerty keyboard For Interface
Mouse	Standard MOUSE

Operating System	Windows 10
Uesr Interface	HTML , CSS
Client-side Scripting	PHP
Back End	MYSQL
Web Server	Apache Tomcat
IDE	Visual Studio Code
XAMPP	

SYSTEM DESIGN

ARCHITECTURAL DESIGN

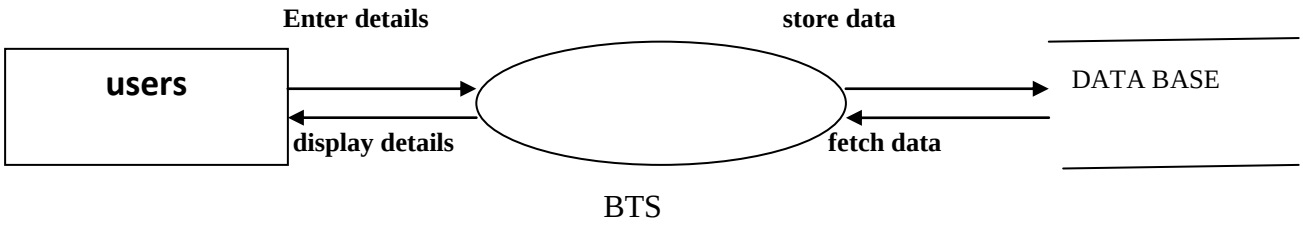
Architectural Design is process of decomposing a large complex system into small subsystem .These Subsystems are meant for providing some related services.



View layer Business Layer Access layer

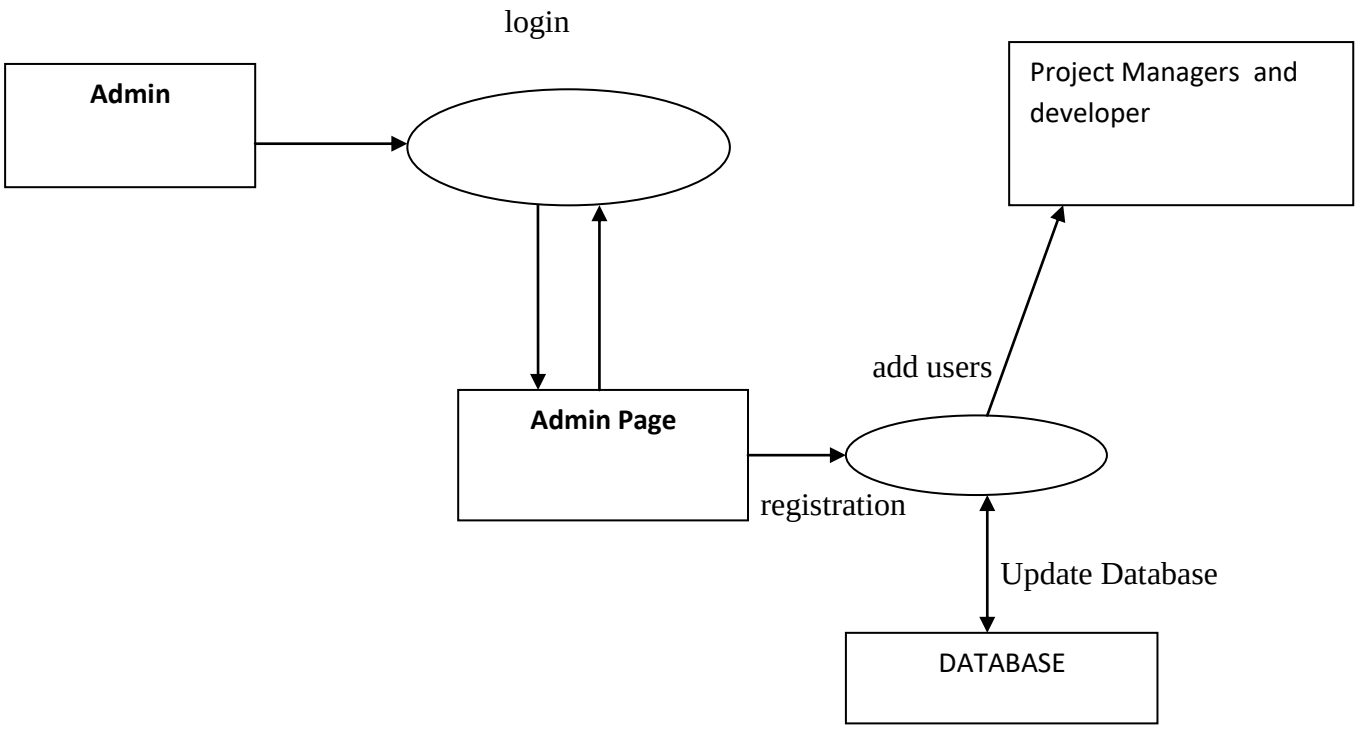
Architectural design for Bug Tracking system

Level 0 DFD Control flow Diagram



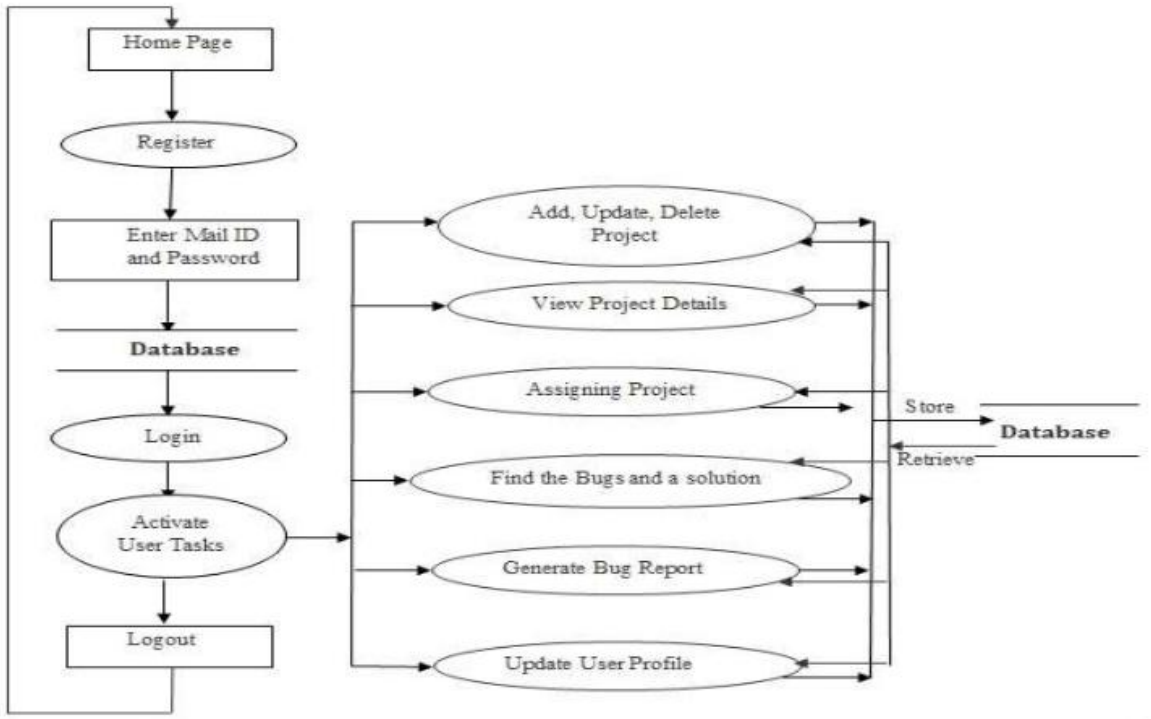
Level 0 DFD Control flow Diagram for BTS

Level 1 DFD Control flow Diagram



Level 1 DFD Control flow Diagram

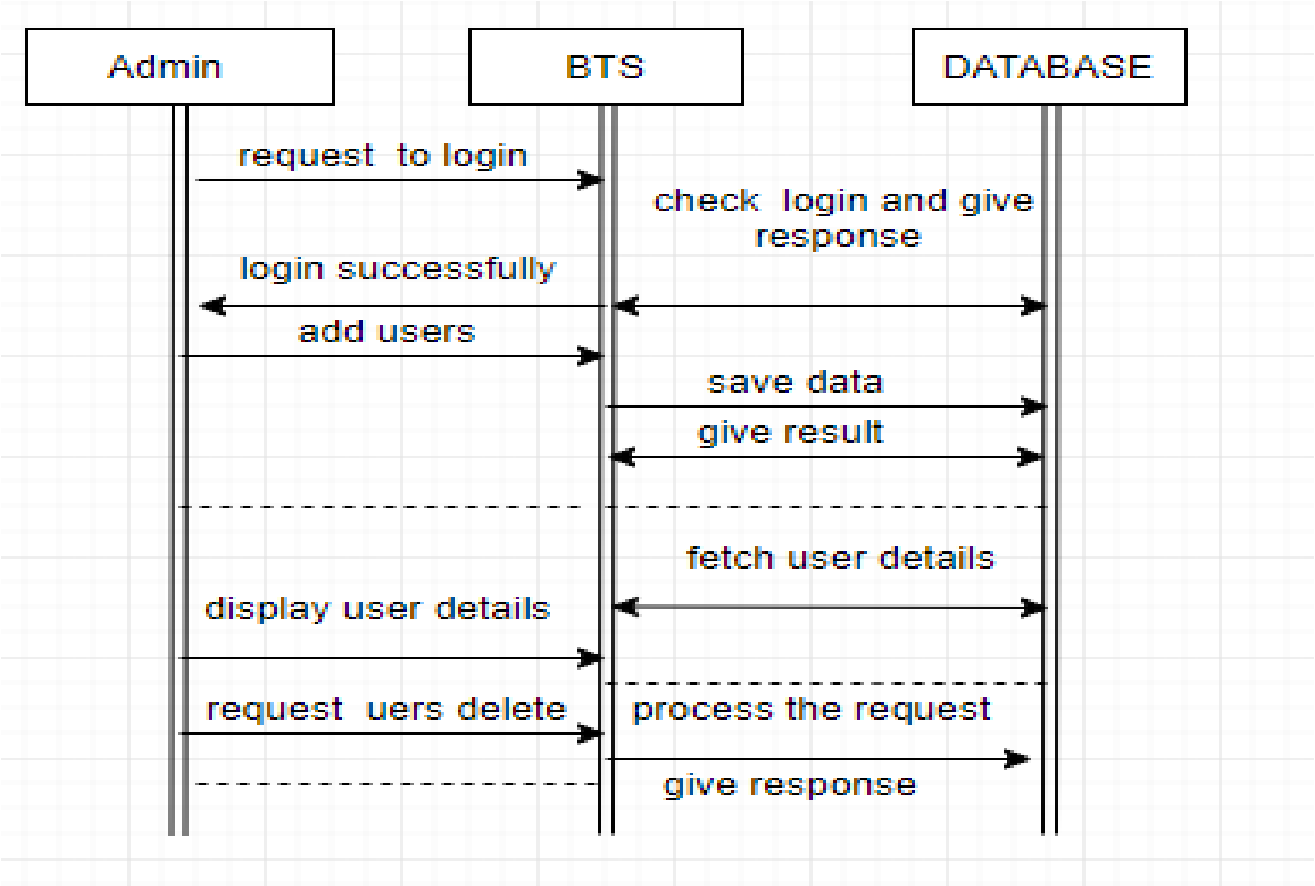
Level 2 DFD Control flow Diagram



Level 2 DFD Control flow Diagram

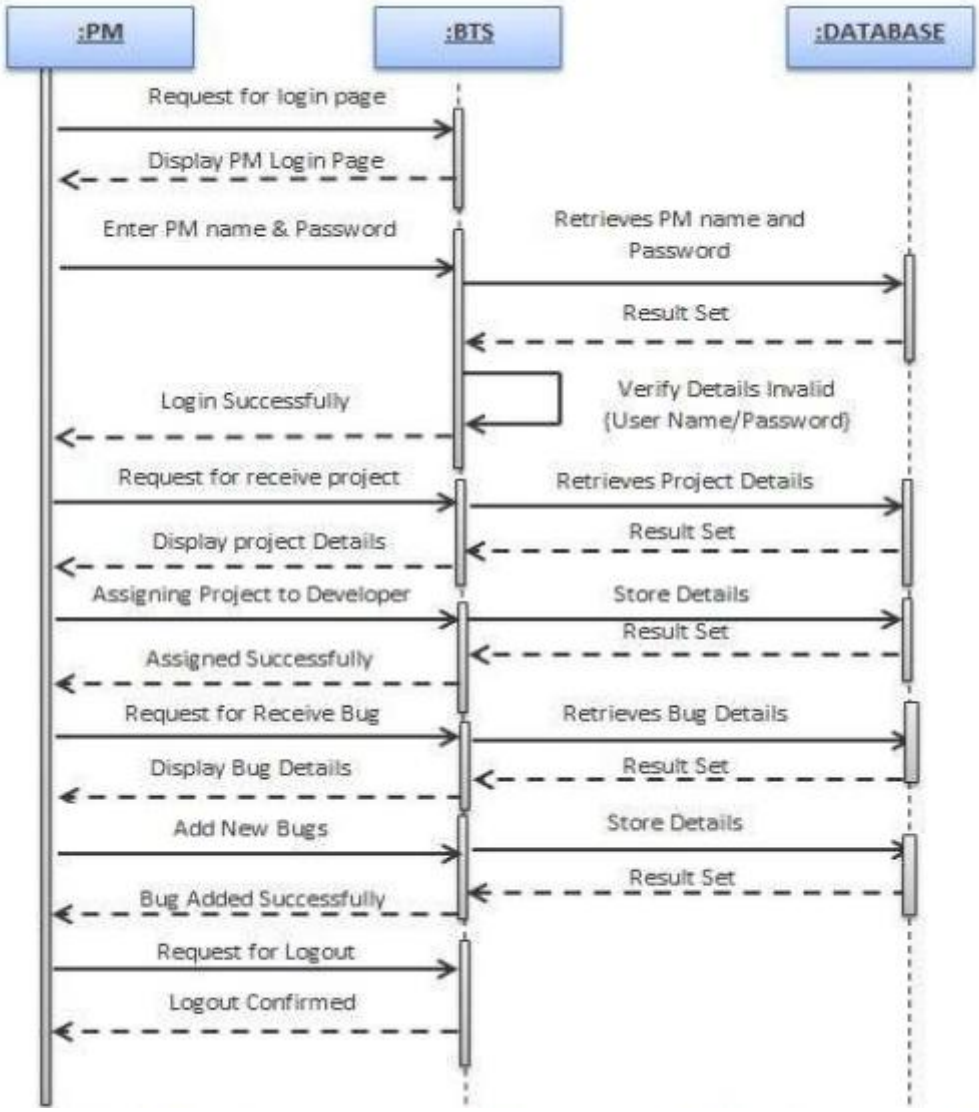
Sequence Diagram

Admin



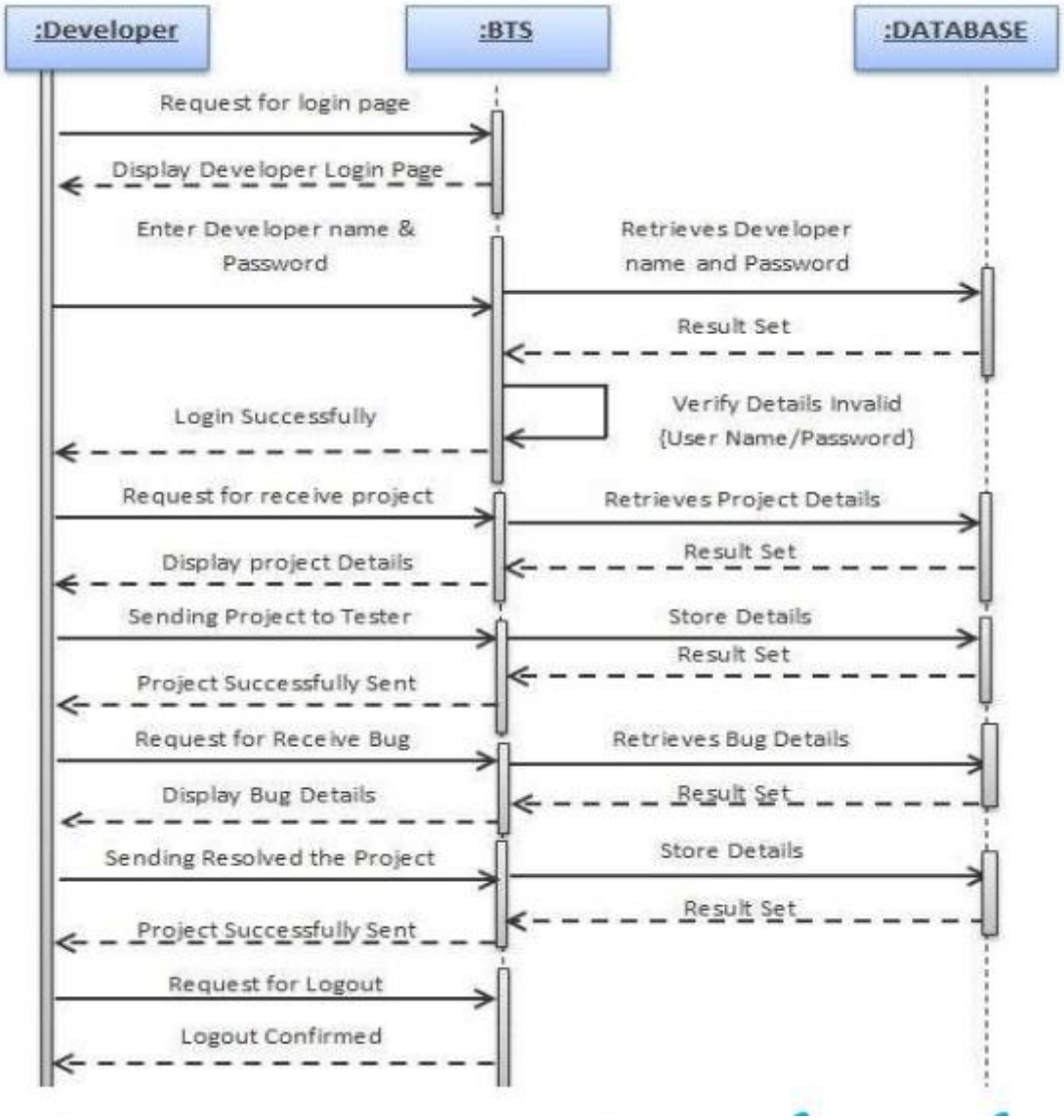
Sequence Diagram for admin

Project manager



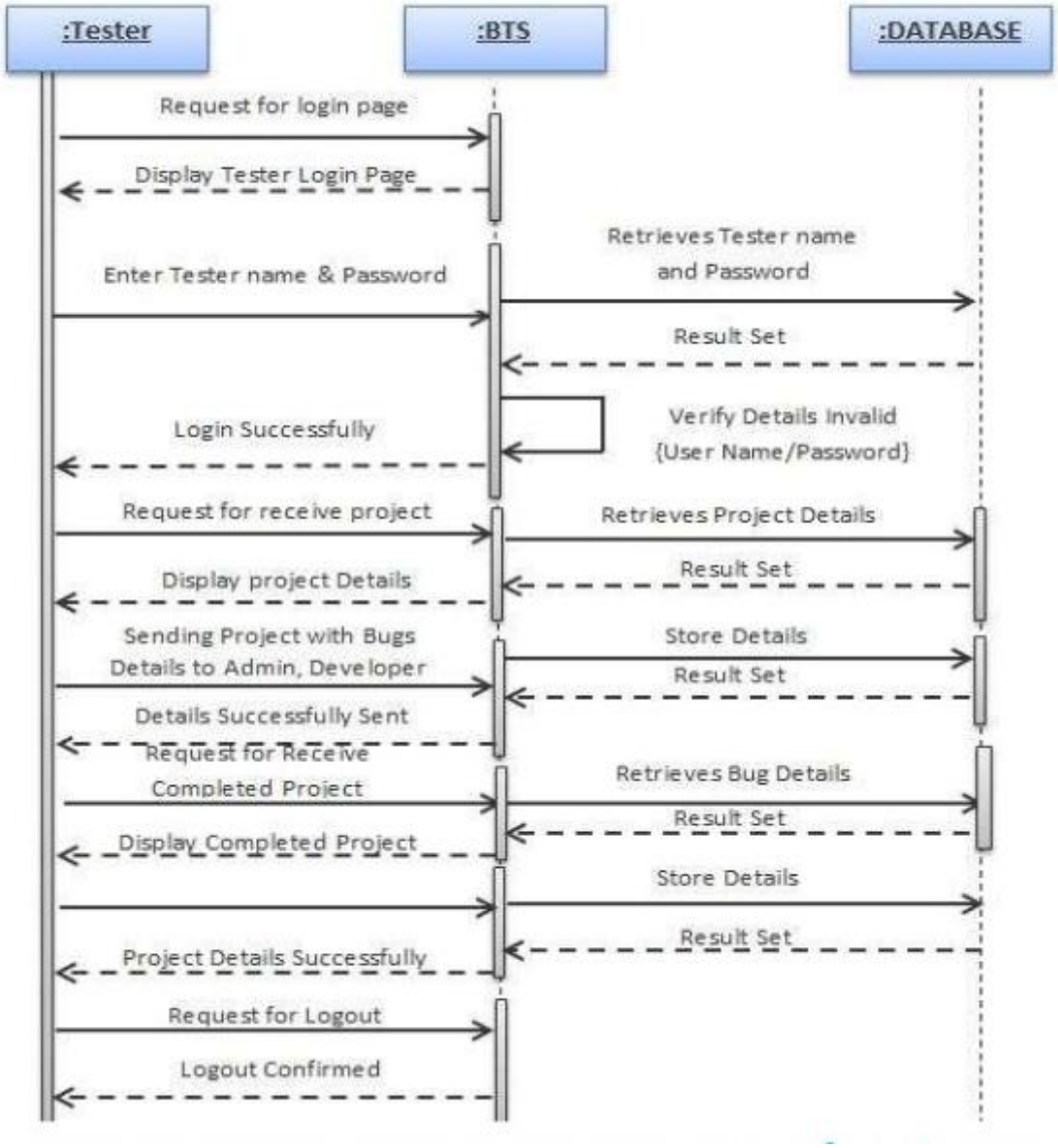
Sequence Diagram for project manager

Developer



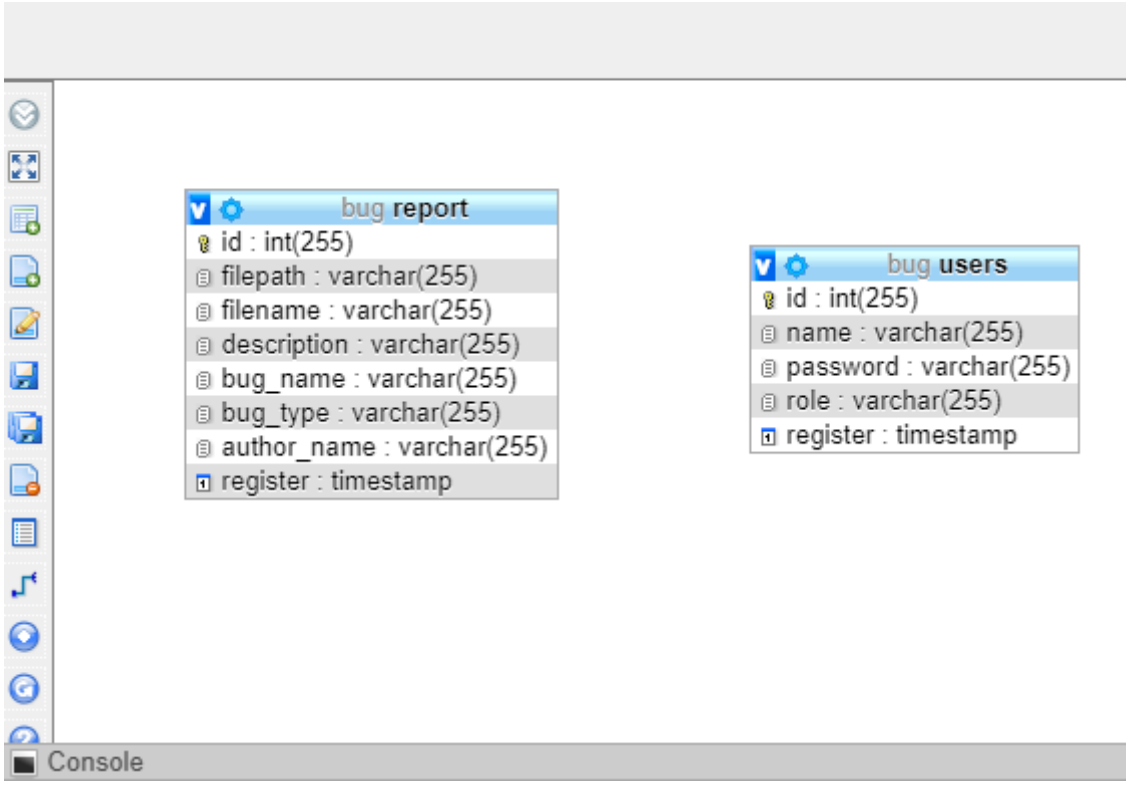
Sequence Diagram for Developer

Tester



Sequence Diagram for Tester

Database Design



Database design

IMPLEMENTATION

PSEUDO CODES FOR LOGIN IMPLEMENTATION

PSEUDO CODE FOR ADMIN, PROJECT MANAGER, DEVELOPER AND TESTRER LOGIN

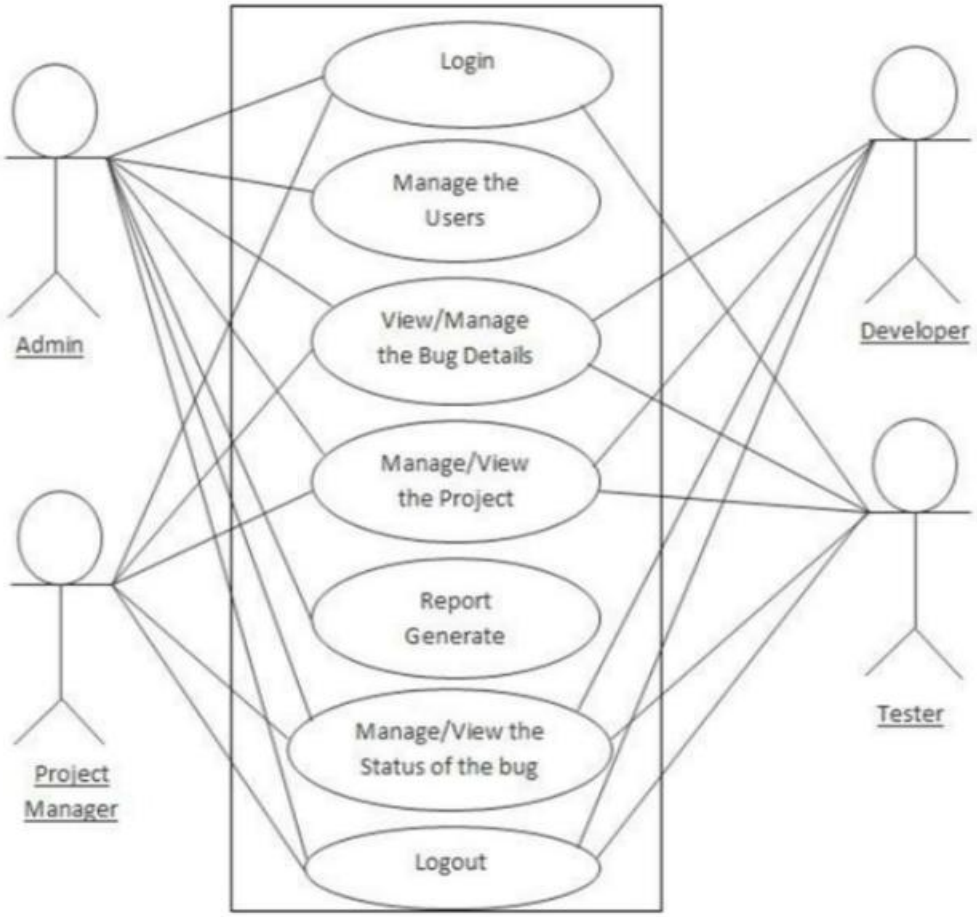
```
Begin
Input: Username, Password, User type      /*Enter valid username and password*/
Connect to Server          /*Validations*/
Check for the authorization of user
      Enter name and password
            Search in the database (login)
            If match found
          Connect user profile Module
 Else
                        Display "User authentication failed"
 EndIf
End
```

Testing

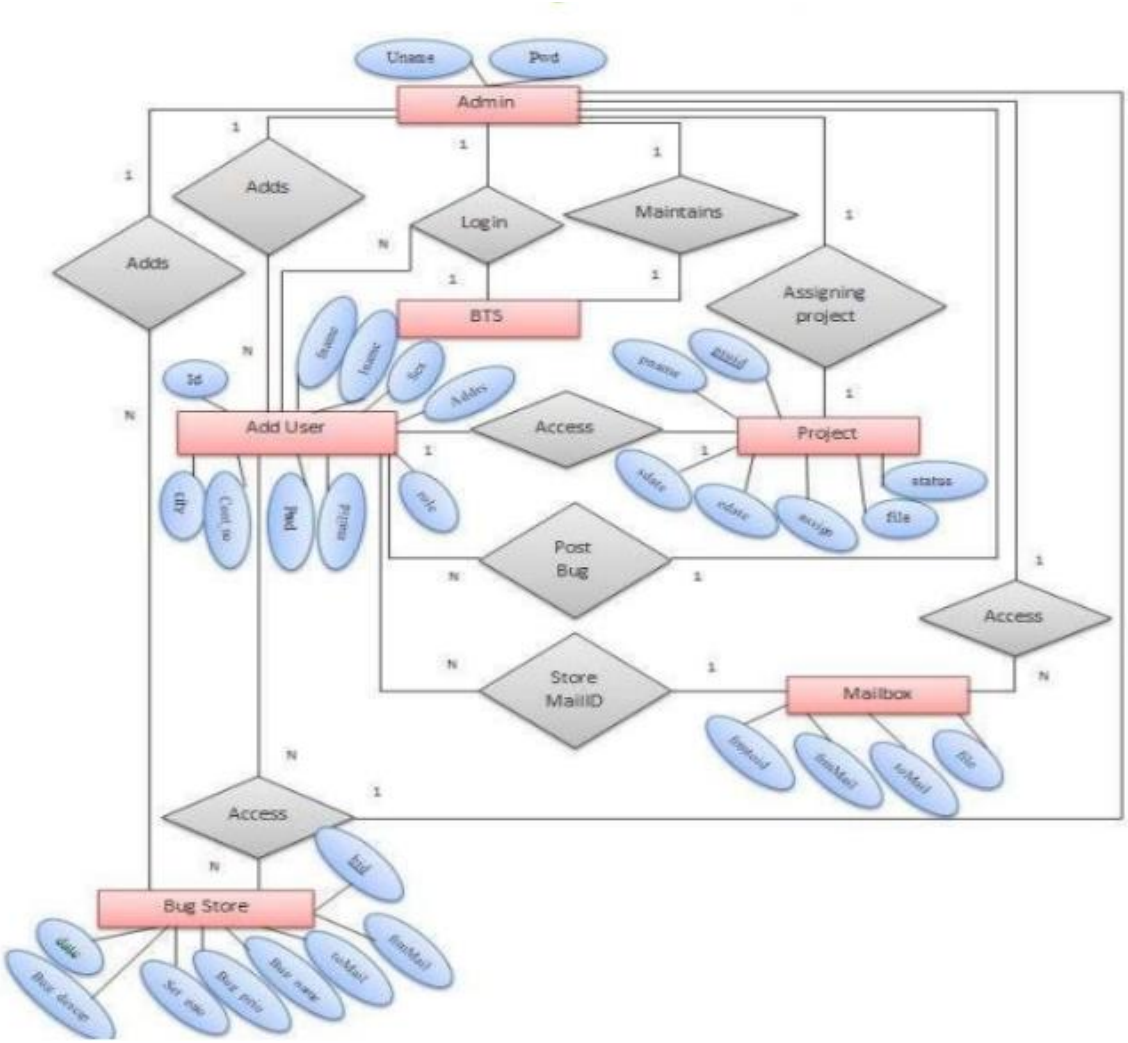
All Type of users should exist in system.				
Sr.no	**Test case**	**Expected Result**	**Observed result**	**status**
1	Click login Button with admin login	Admin main page open	Admin menu open	pass
2	Click login Button with all users login	Users profile open	Users profile open	pass
3	Click add Member Button	Add Member page open	Add Member page open	pass
4	Click View member	All members details open	All members details open	pass
5	Click View bug / bug report	Open bug details module should be open	Open bug details module should be open	pass
6	Click add project	Open add project module should be open	Open add project module should be open	pass

Integration test case

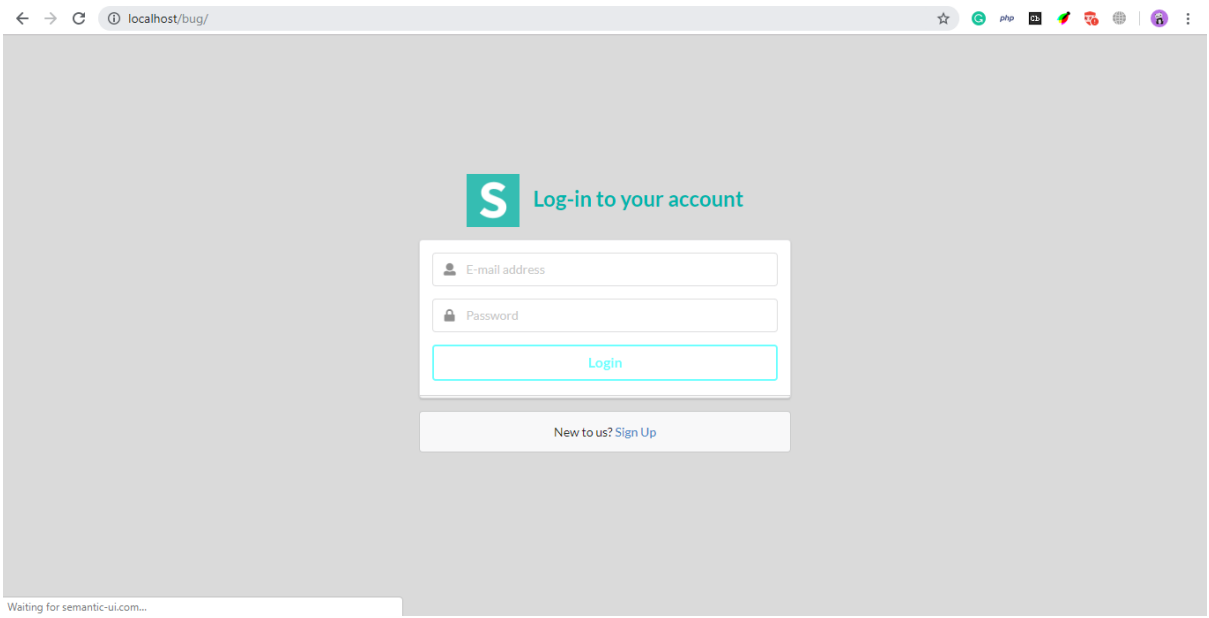
Use case


Login
Manage the Users
View/Manage the Bug Details
Manage/View the Project
Report Generate
Manage/View the Status of the bug
Logout
Admin
Project Manager
Developer
Tester

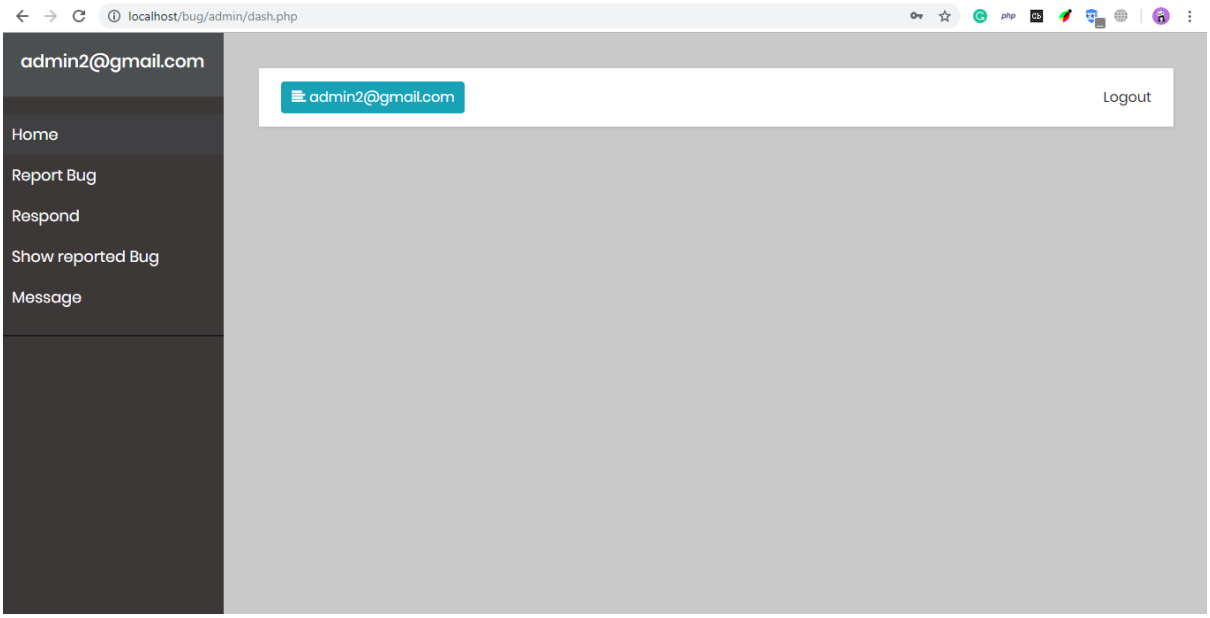
ER Diagram


Admin
Adds
Adds
Login
Maintains
Assigning project
BTS
Add User
Access
Project
Post Bug
Access
Store MailID
Mailbox
Access
Bug Store

Screen Shots



Login panel



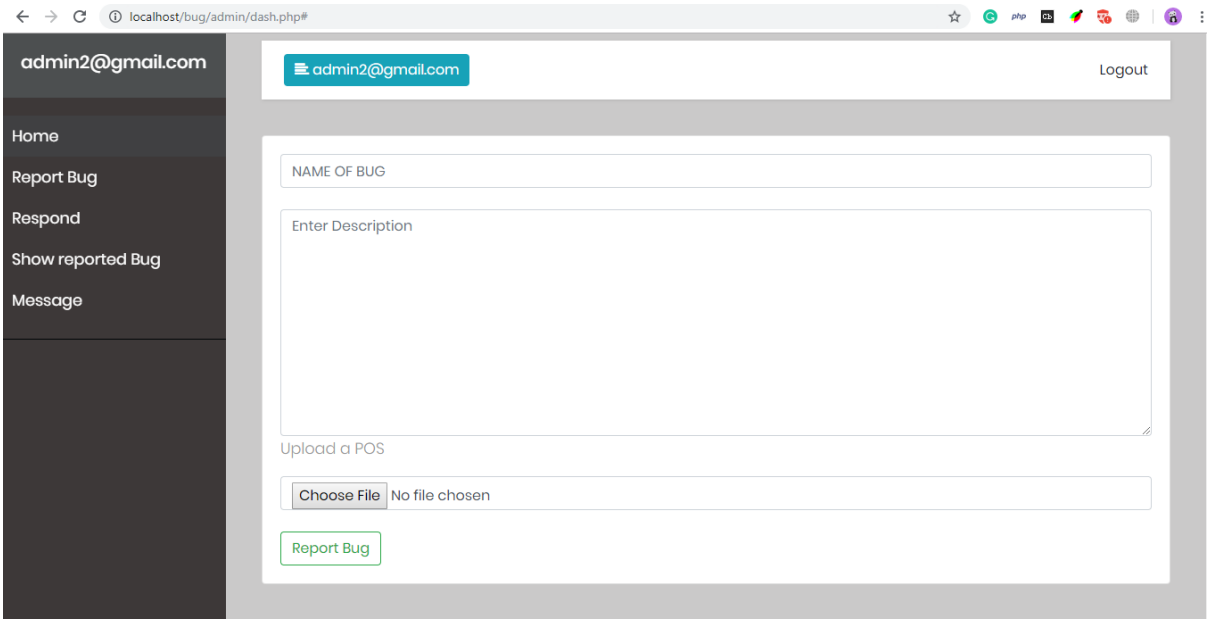
Admin panel

WELCOME : admin2@gmail.com.

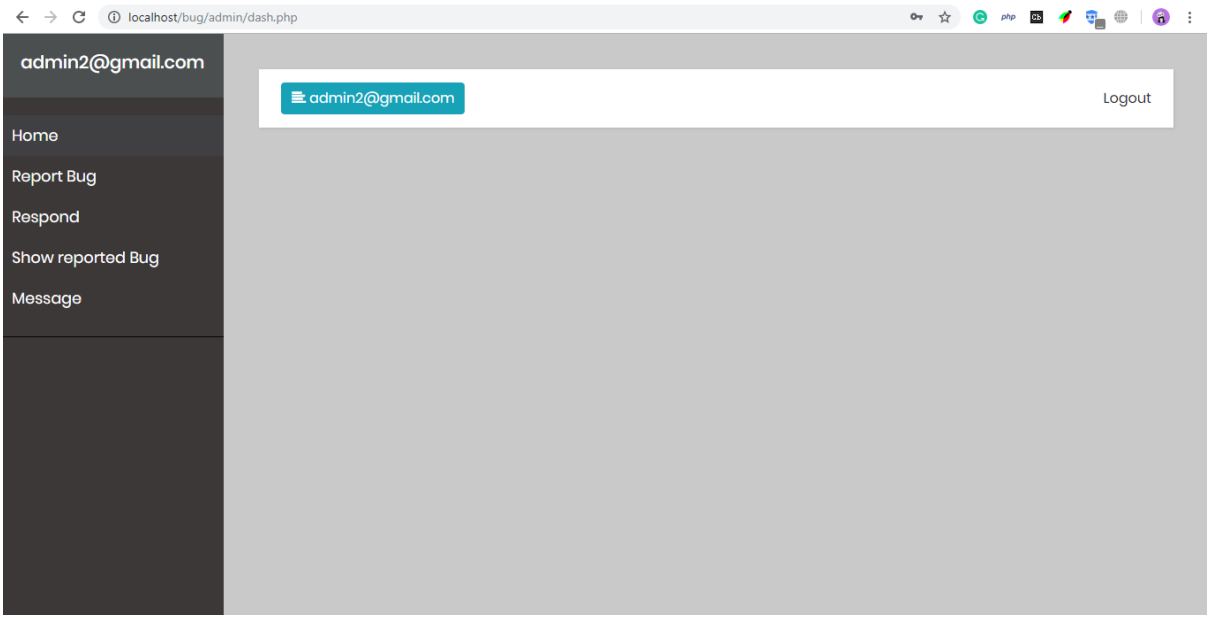
Dashbord

ID	Name of Bug	author_name	Description	filename	filepath	Reporting Time
1	gjhgjh		ghfhfgh	asp.pdf	Show Report	2019-11-03 12:38:47
2	fgdgd		gjhghfgfh	asp.pdf	Show Report	2019-11-03 12:39:37
3	hathdh	admin22@gmail.com	lofuyfhdnchyd	asp.pdf	Show Report	2019-11-03 12:47:02
4	nmn	siddharth@gmil.com	nbmnbmn	compiler_design_tutorial.pdf	Show Report	2019-11-03 16:21:47

Reported bugs



Bug reporting panel



Developer panel

CONCLUSION

Bug Tracking System helps to detect and manage the bug in software products effectively.

This project BTS can be used to track the bugs in the projects modules and assist in troubleshooting errors for testing and for development processes .

This project highly avoids all sources of delay in bug reporting level within the project modules in the software industry .As application is developed in the a company server ,it is much more secure.

Future Scope

This Bug tracking sys can be modified and enhanced for performing more complex task related to bug tracking systems.

There are many more enhancement that are pending to make this project more interactive and professional , apart form this online facility ,chat room , SMS alerts to user and separate account will be created for the testing team to compare severity of the incoming bugs.

Reference

https://en.wikibooks.org/wiki/Introduction_to_Software_Engineering/Tools/Bug_tracking_system.

https://www.slideshare.net/kishankishanacharya/bug-tracking-system-38586471

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