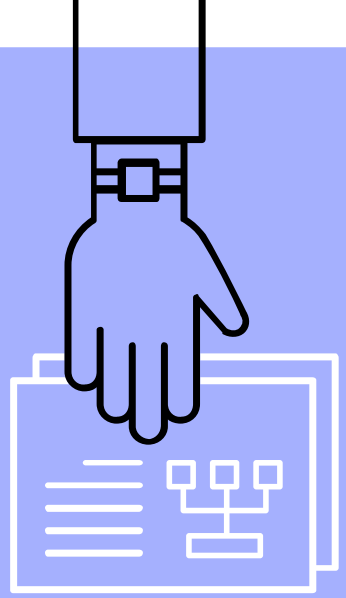
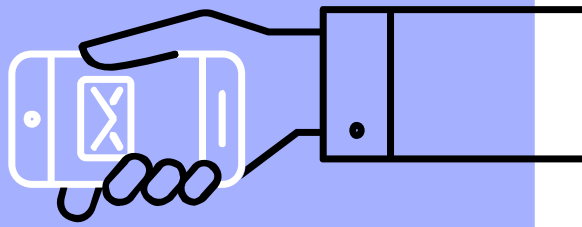
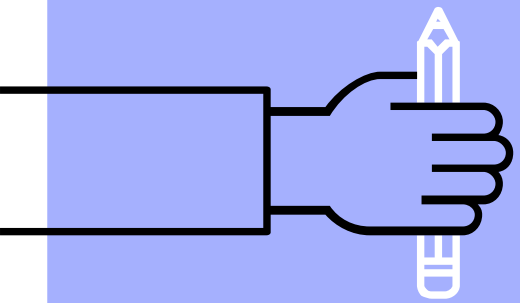
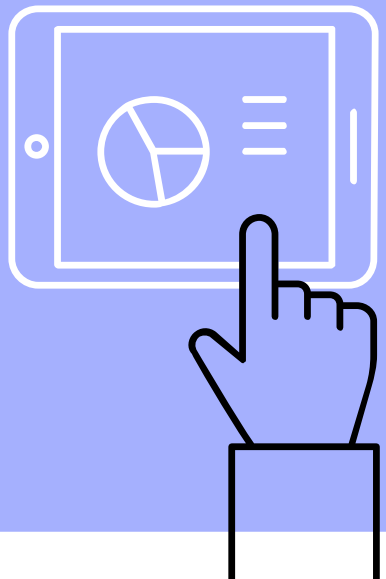




BUG TRACKER

Team Broski



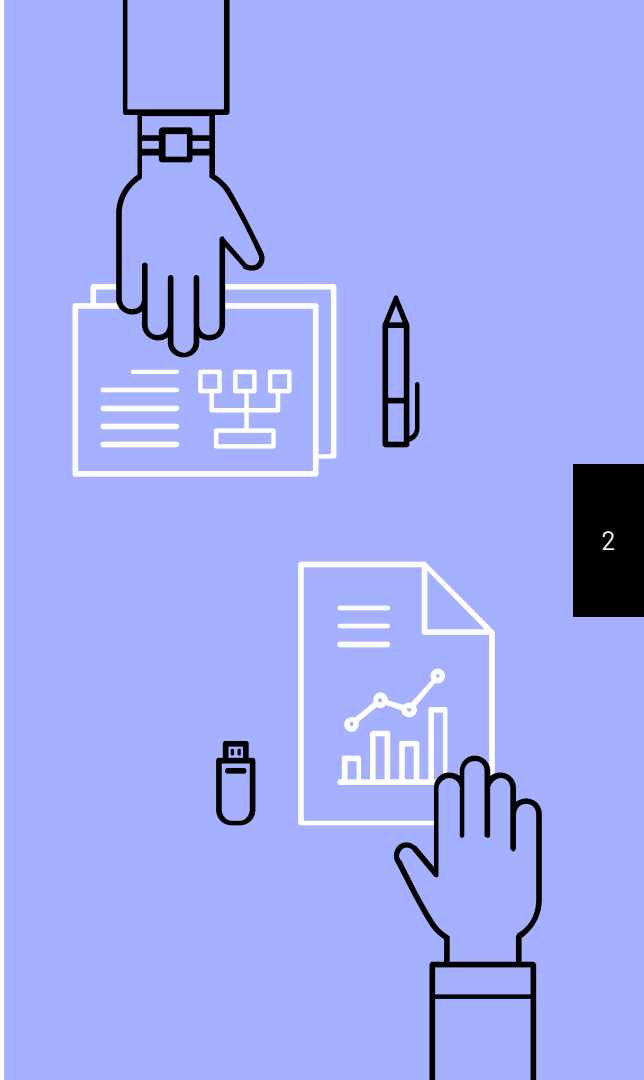


TEAM

- Shivam Shekhar (RA1911030010026)
- Ratanshi Puri (RA1911030010025)
- Paras Rawat (RA1911030010023)

Project Link

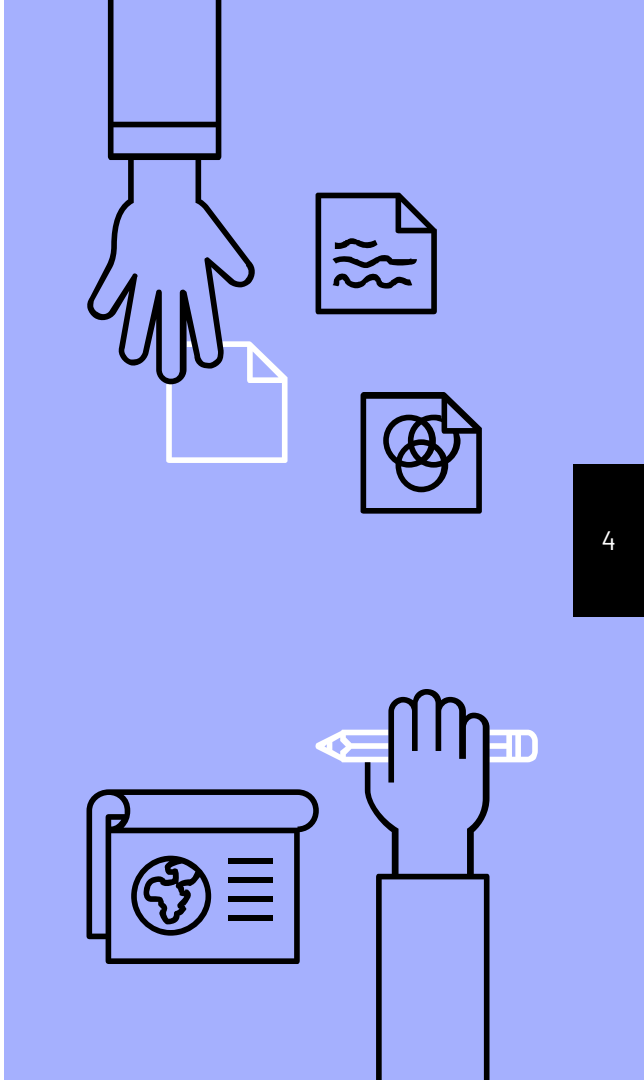
https://bugtracker-sepm.herokuapp.com/



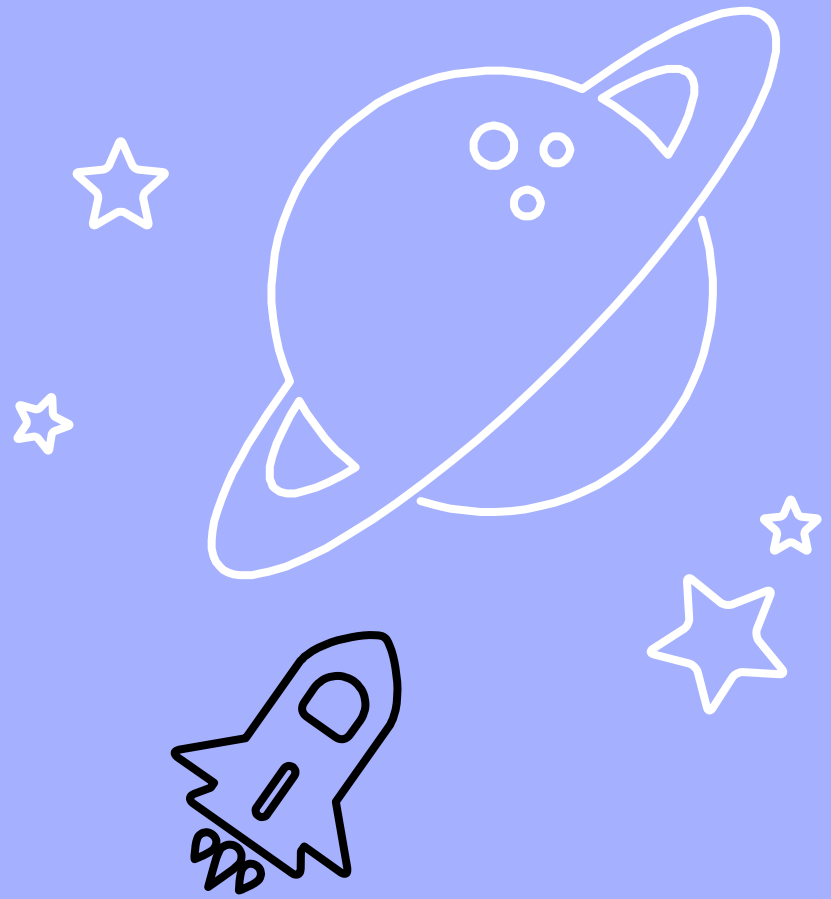
The trouble with programmers is that you can never tell what a programmer is doing until it's too late.

INDEX

- Introduction
- Tech Stack
- Stakeholder Analysis
- Project Methodology
- Scopes and Requirements
- UML Diagrams
- Product Images



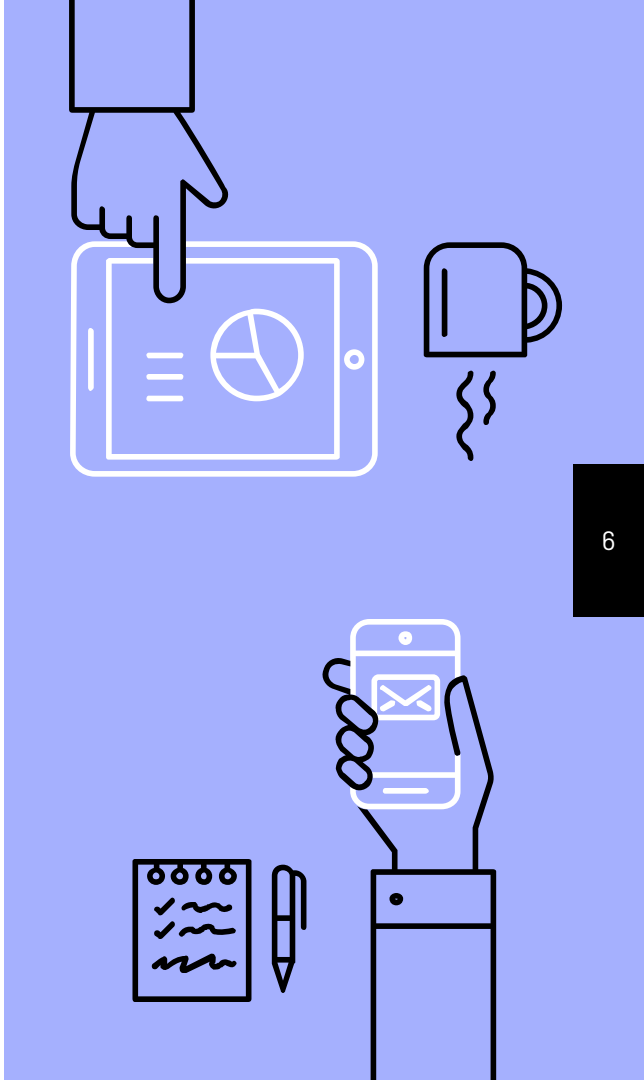
IDEA



Introduction

A bug tracker is an open-source web platform which enables team members working on a project to collaborate and report and keep track of the bugs which they come across during their work. Bug Tracker helps us keep track of the progress of the project and provides a centralized view of the development progress. In a corporate environment, a bug-tracking system may be used to generate reports on the productivity of programmers at fixing bugs.

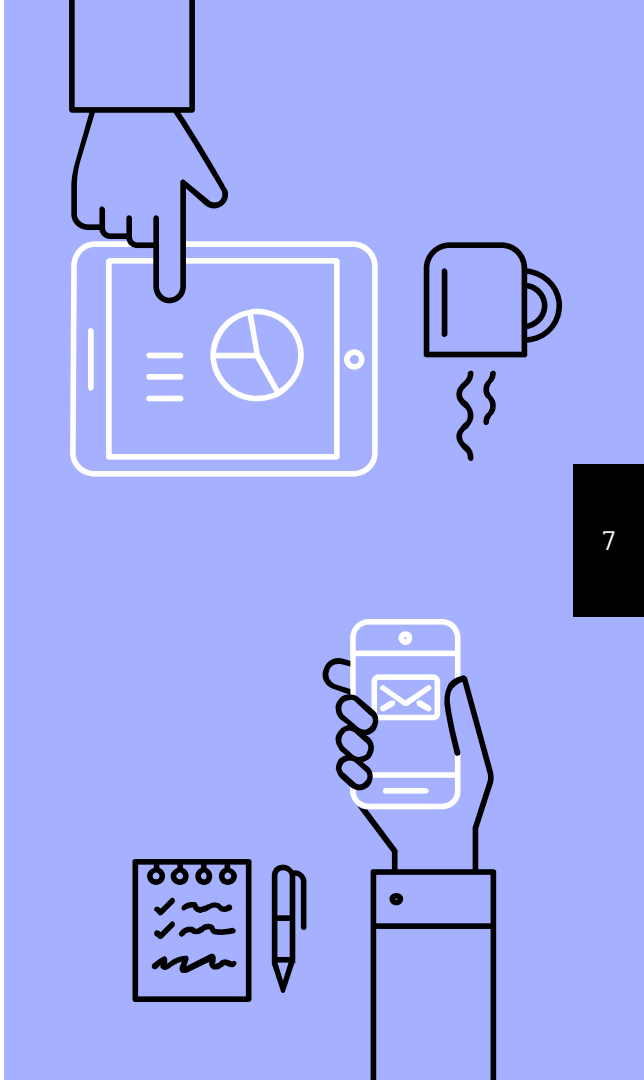
A bug tracking system or defect tracking system is a software application that keeps track of reported software bugs in software development projects.A major component of a bug tracking system is a database that records facts about known bugs. Facts may include the time a bug was reported, its severity, the erroneous program behavior, and details on how to reproduce the bug; as well as the identity of the person who reported it and any programmers who may be working on fixing it.



Steps Involved

- Bug detection: Bugs are detected by the development team during the product testing phase. They can also be detected and reported by end-users.
- Bug reporting: The developer identifies the bug and logs the time it was detected in the bug report.
- Bug fixing: Developers try different approaches to fix the bug.
- Software retesting: The software is tested repeatedly to ensure it works properly.
- Data capturing: All the data related to the bug is recorded in the bug report to avoid the same occurrence in the future.

Our project is based on the Data capturing step of the bug tracker , with its main aim to maintain a database for all bugs history in the open source software.



TECH STACK

Front-end

- EJS
- CSS
- BootStrap
- JS

Back-end

- Node.js
- Express.js
- Firebase

Database

- MongoDB

Deployment

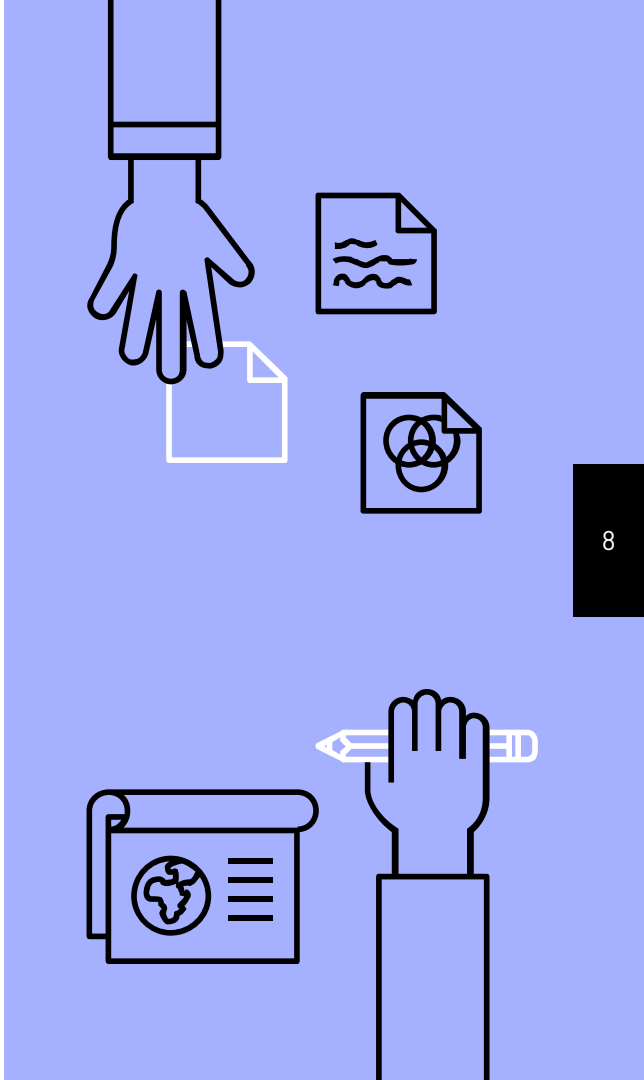
- Heroku

Hosting

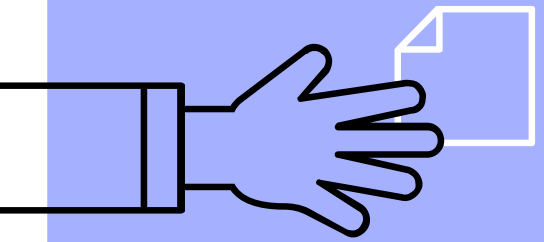
- GitHub

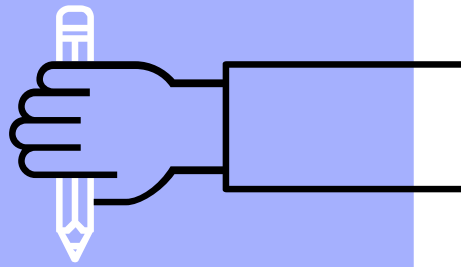
Version Control

- Git



STAKEHOLDER ANALYSIS





WHY WE REQUIRE STAKEHOLDERS?

We identified a range of stakeholders prior to the problem-focused stages of project development. Early identification of stakeholders around a natural resource is critical for the management of that resources. A stakeholder is any actor that can affect, or can be affected by, a decision or action.

STAKEHOLDERS

Ratanshi Puri

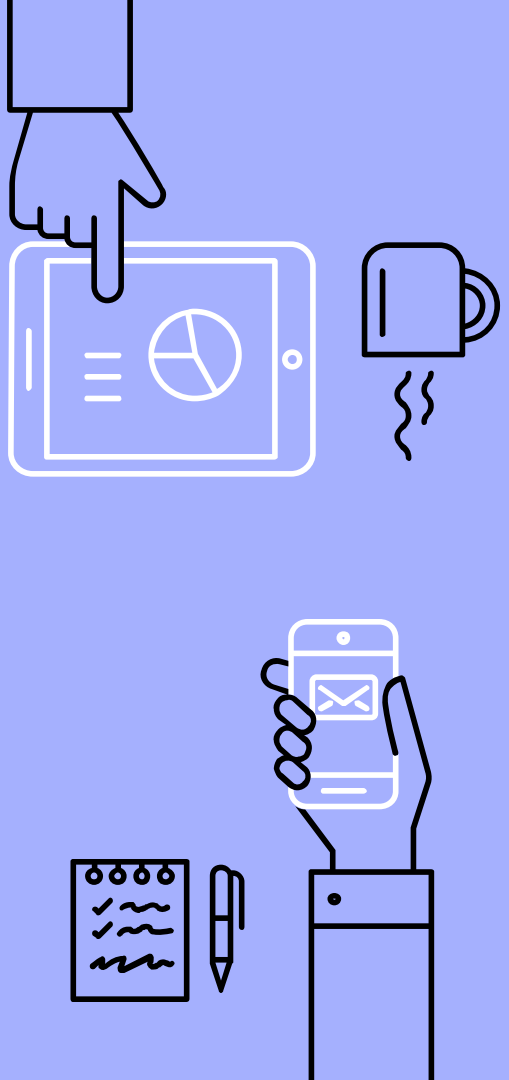
- Project Manager

Paras Rawat

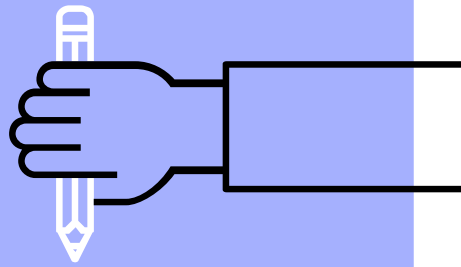
- Resource Allocator

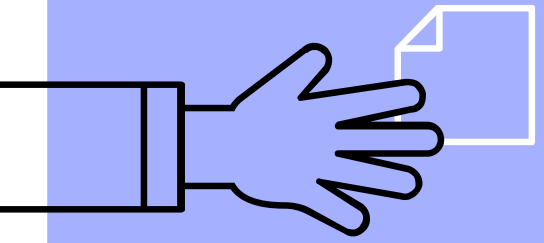
Shivam Shekhar

- Developer



PROJECT METHODOLOGY





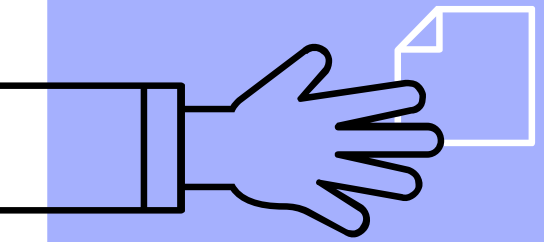
Waterfall Methodology

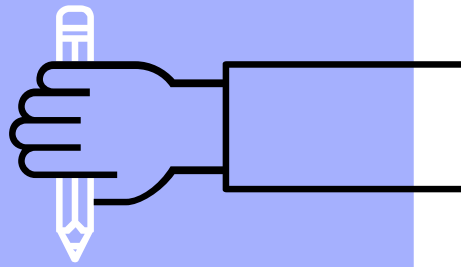
Waterfall Model methodology is also known as Linear Sequential Life Cycle Model. Waterfall

Model followed in the sequential order, and so the project development team only moves to the

next phase of development or testing if the previous step completed successfully.

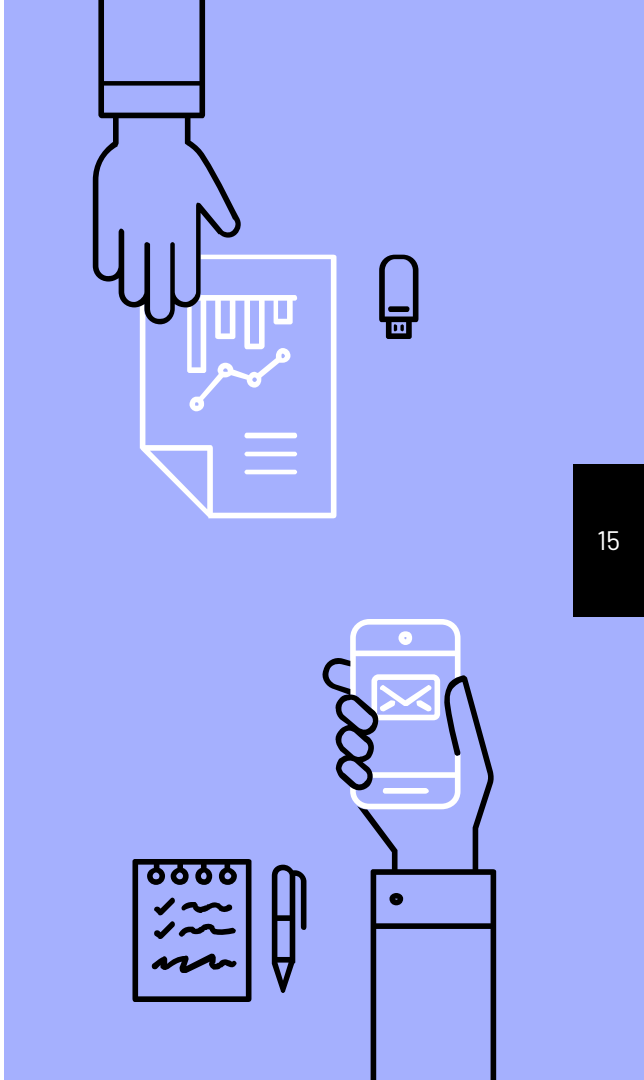
SCOPES AND REQUIREMENTS





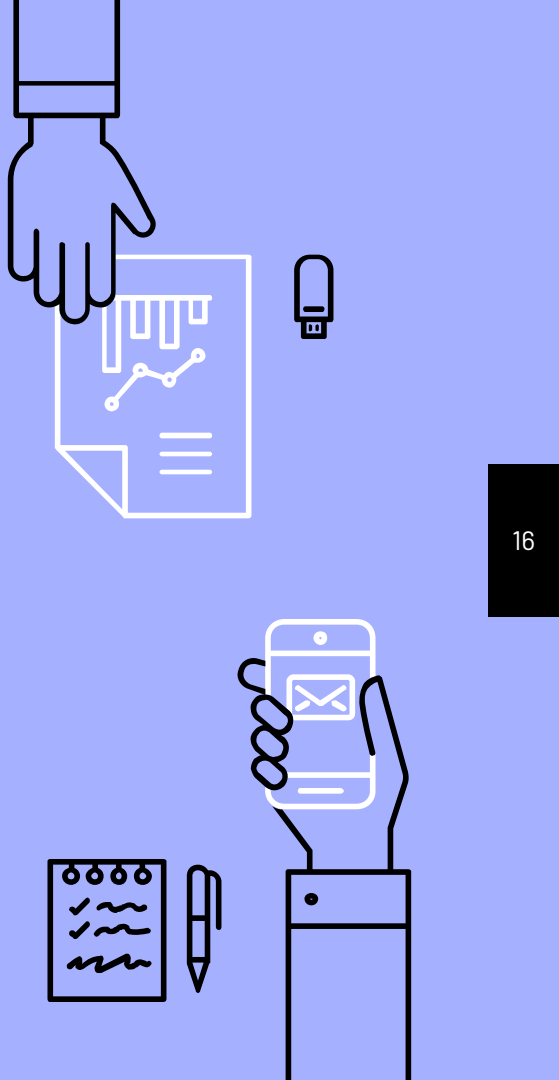
PROJECT SCOPE

SNo	Activities In Scope	Activities Out of Scope
1	Interactive User Interface	Computer hardware
2	HTTPS - secure Website	Internet connection
3	Bug Timeline	Open Source code
4	Bug Intensity Tracker	Internet Browser latest version
5	Graphical analysis of code	RAM 256GB at least



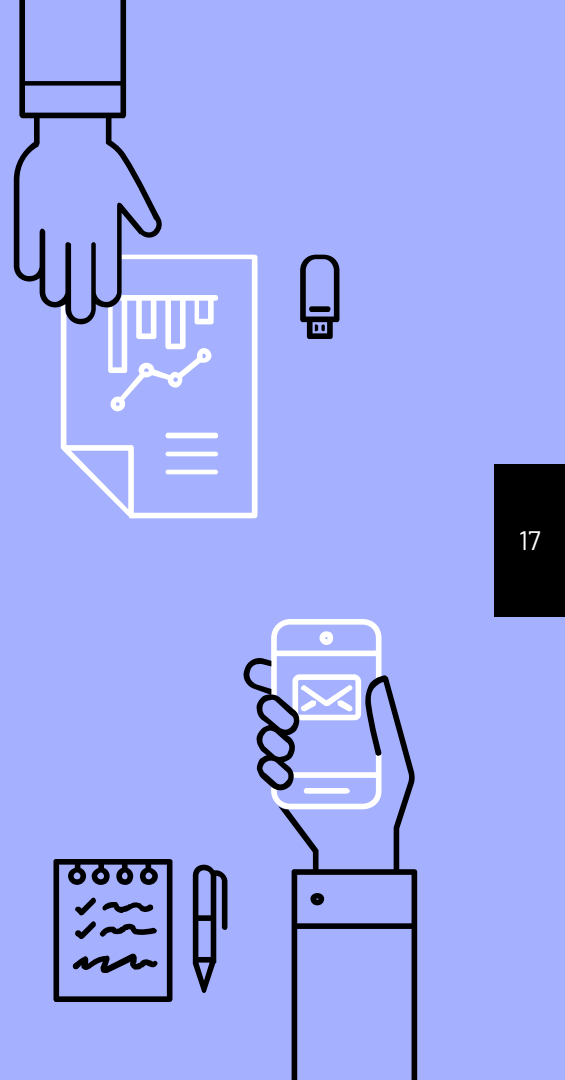
FUNCTIONAL REQUIREMENTS

Requirement	Requirement Specification	Department	Name of Business User	Status
E1FR1	As a customer, Scheduling the internet bills	Internet service provider	Finance	Low
E1FR2	Purchasing supporting Hardware, monitor, Cpu, and Input devices	Hardware provider	Finance	High
E1FR3	Rewards for participants who track the bugs in the form of bounties	Individual	Management and Finance	Moderate (intensity-dependent)
E1FR4	The electricity bill for hardware used	Electricity department	Finance	Low
E1FR5	Cost of the Bug tracker	Developers	Management and Finance	Moderate
E1FR6	Salary for the software Admin	Finance	Self	Moderate



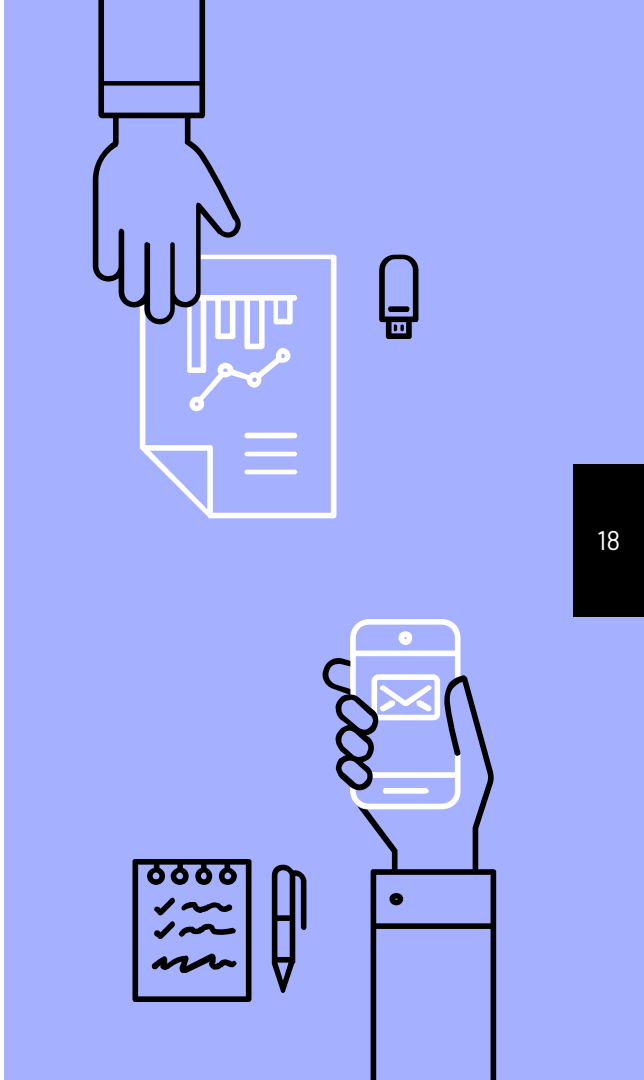
NON-FUNCTIONAL REQUIREMENTS

Requirement	Category of NFR	Requirement Specification	Department	Name of Business User	Status
NFR1	Performance	All pages should load within 3 seconds	Development And Management	Client	Positive
NFR2	Performance	Search should bring the results in less than 7 seconds	Development	Client	Positive
NFR3	Availability	The application should be available 24x7	Development And Management	Client	Positive
NFR4	Scalability	Registration Service should scale to serve 1000 request per second over 5 minutes timespan	Development And Finance	Client	Positive
NFR5	Confidentiality	The Bugs and their data should not be made public and should be well protected in the database	Development And Management	Client	Positive
NFR6	Compliance	adhering to a rule, such as a policy, standard, specification, or law.	Management And Finance	Management	Positive

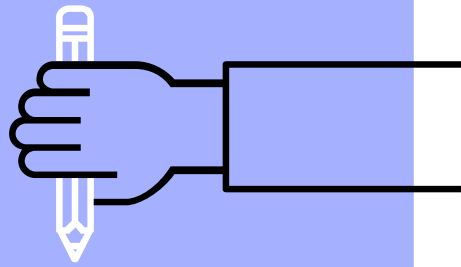


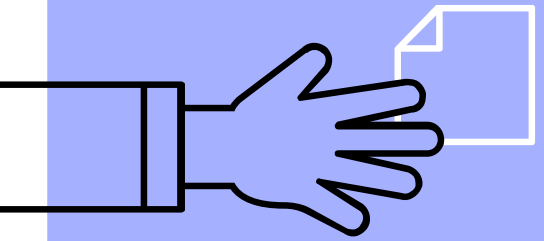
INFRASTRUCTURE REQUIREMENTS

Requirement (#)	Requirement Specification	Department	Name of Business User / Project Team Member	Status
IR1	5GB harddisk	Hardware	NA	Positive
IR2	Code Repository	Software	NA	Positive
IR3	OS - Windows XP and Above	Software	NA	Positive
IR4	User interface in HTML or CSS	Software	Shivam Shekhar	In creation
IR5	Database-SQL	Software	Ratanshi Puri	NA
IR6	Memory 1GB RAM	Hardware	NA	Positive
IR7	UI/UX	Software Interface	Paras Rawat	NA

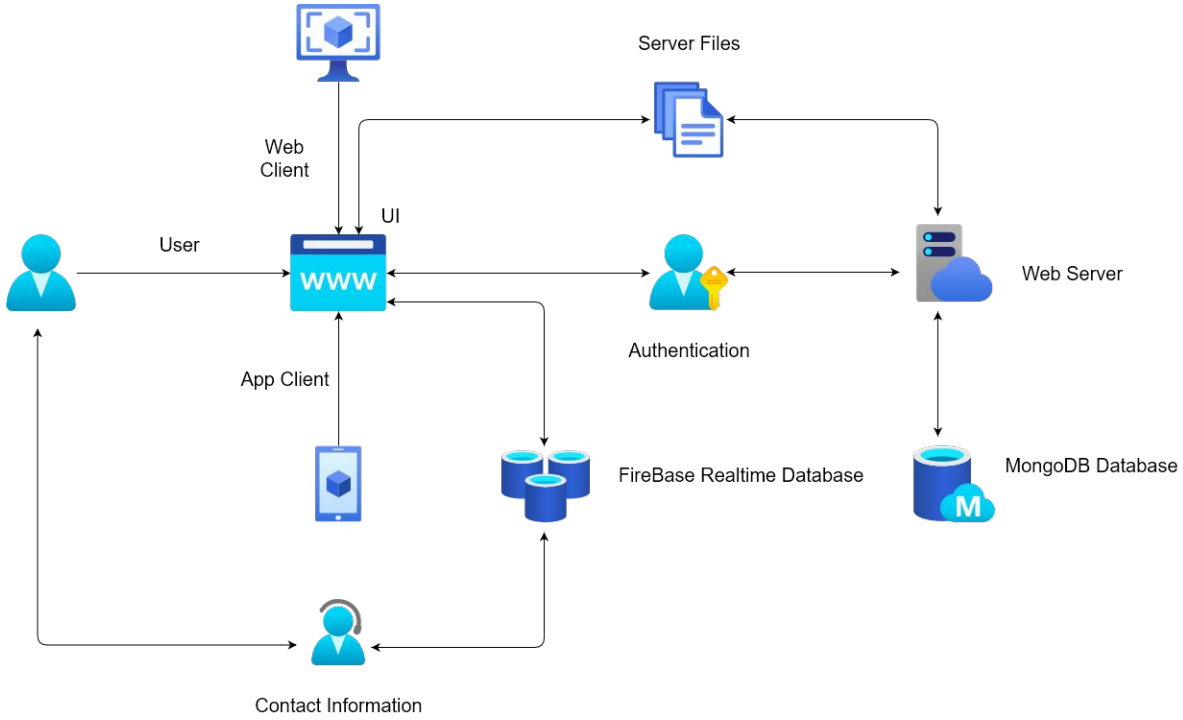


SYSTEM DESIGN





ARCHITECTURE DIAGRAM



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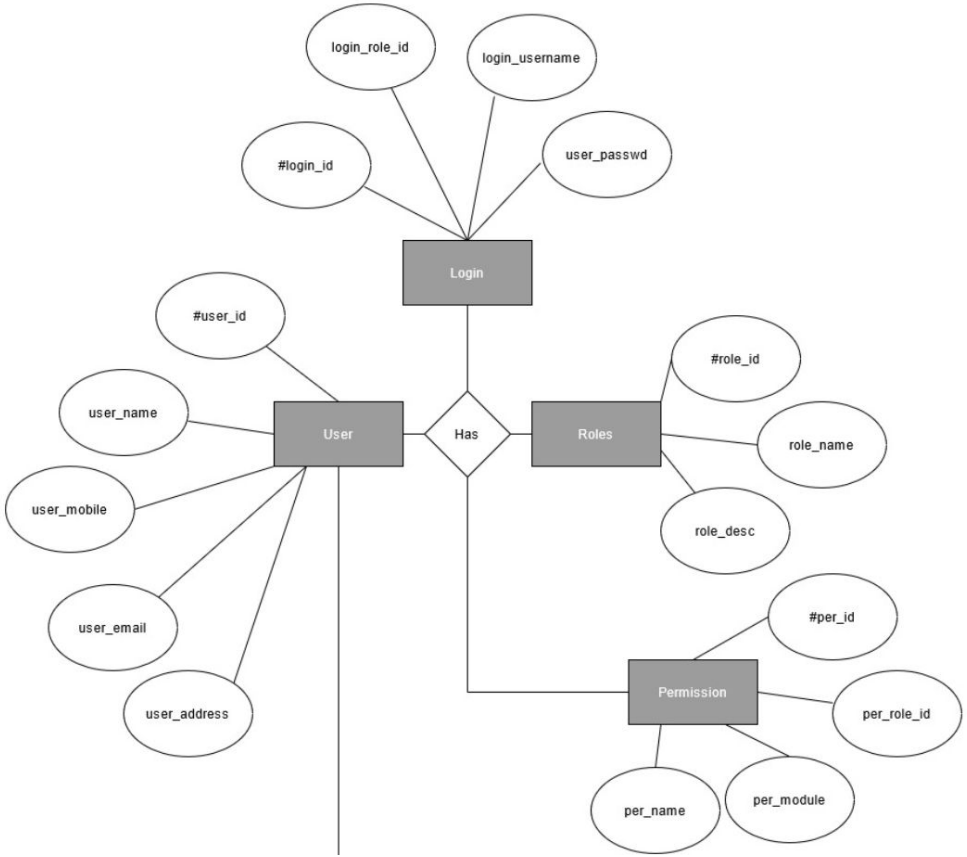
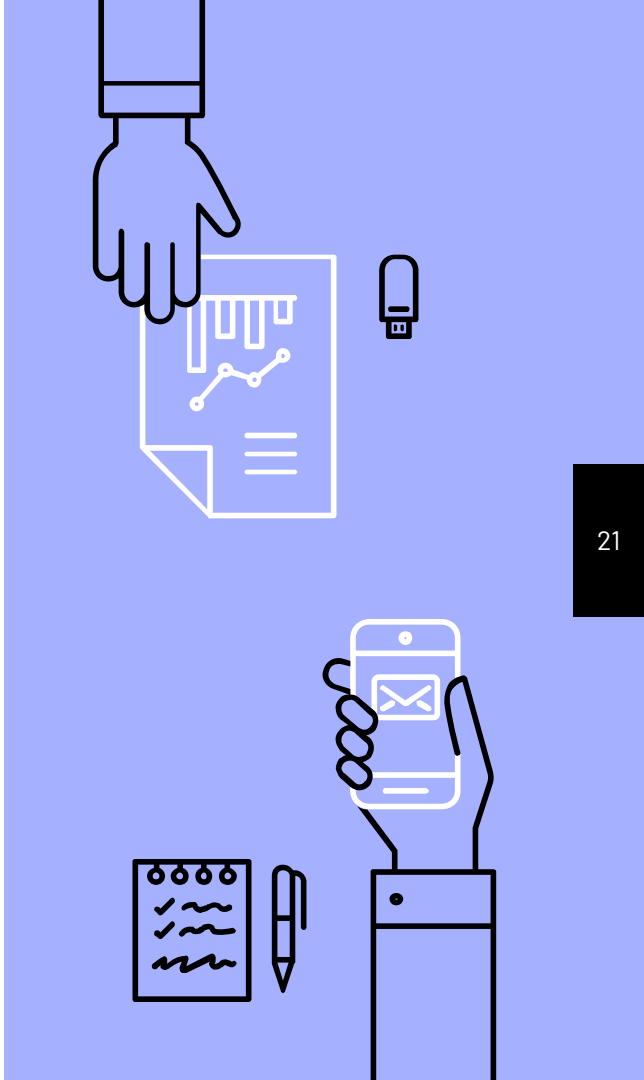
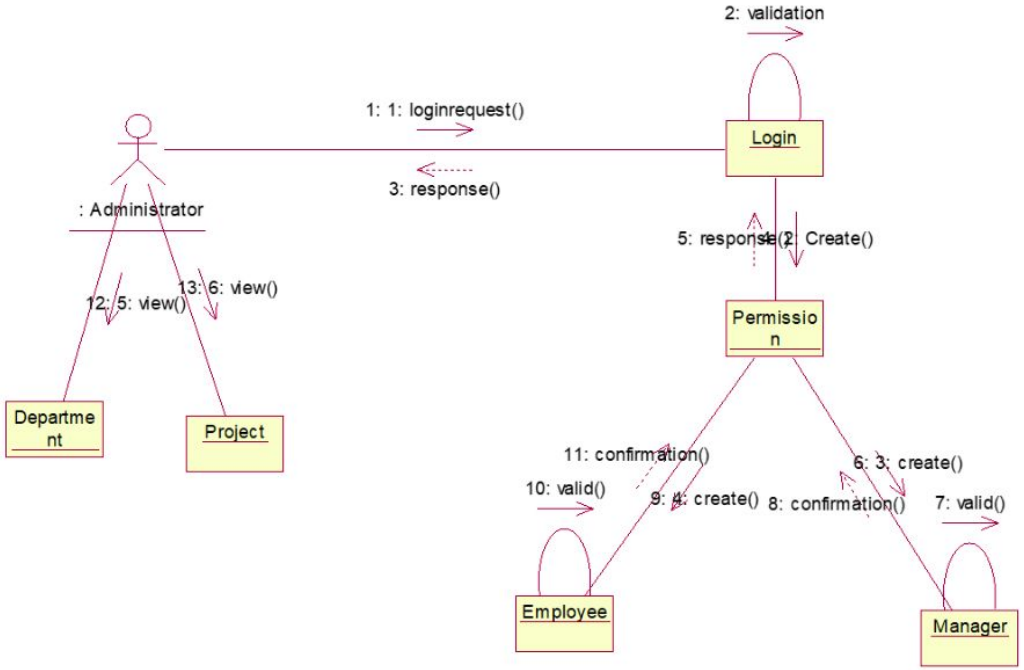
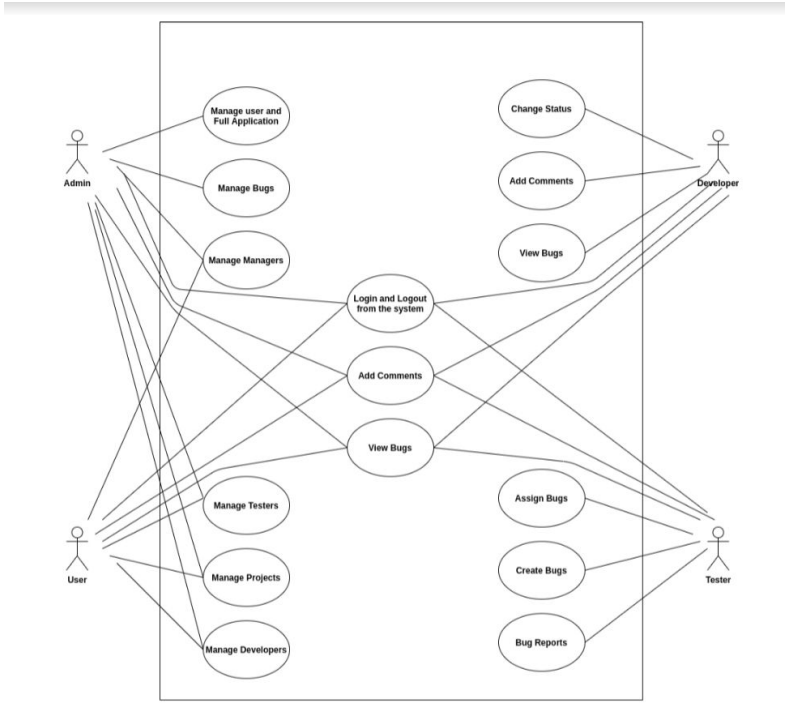

login_role_id
login_username
#login_id
user_passwd
Login
#user_id
user_name
User
Has
Roles
#role_id
role_name
role_desc
user_mobile
user_email
user_address
#per_id
Permission
per_role_id
per_name
per_module



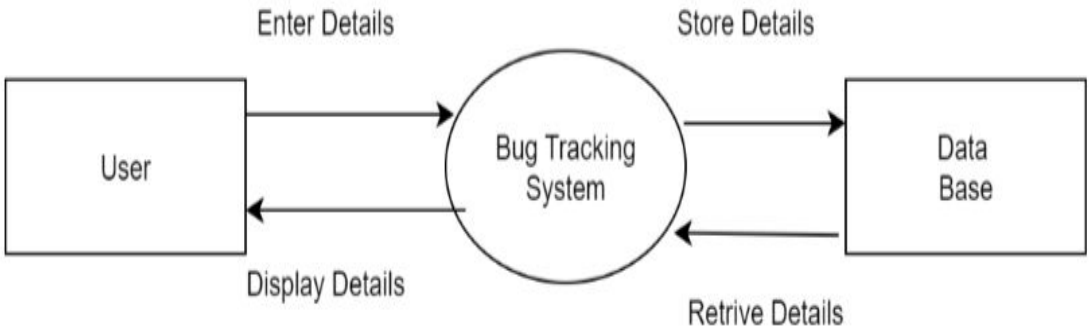
COLLABORATION DIAGRAM



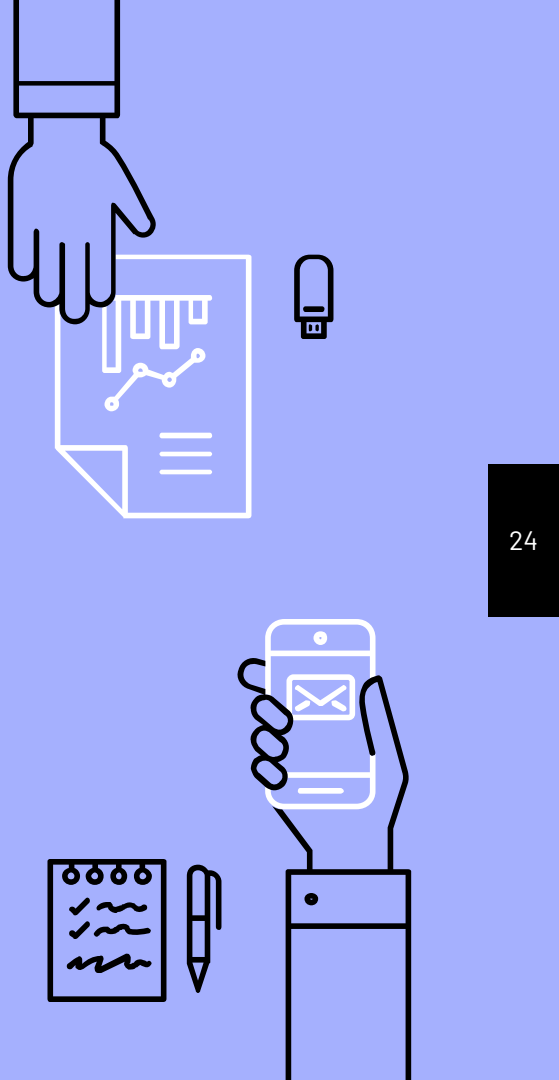
USE CASE DIAGRAM



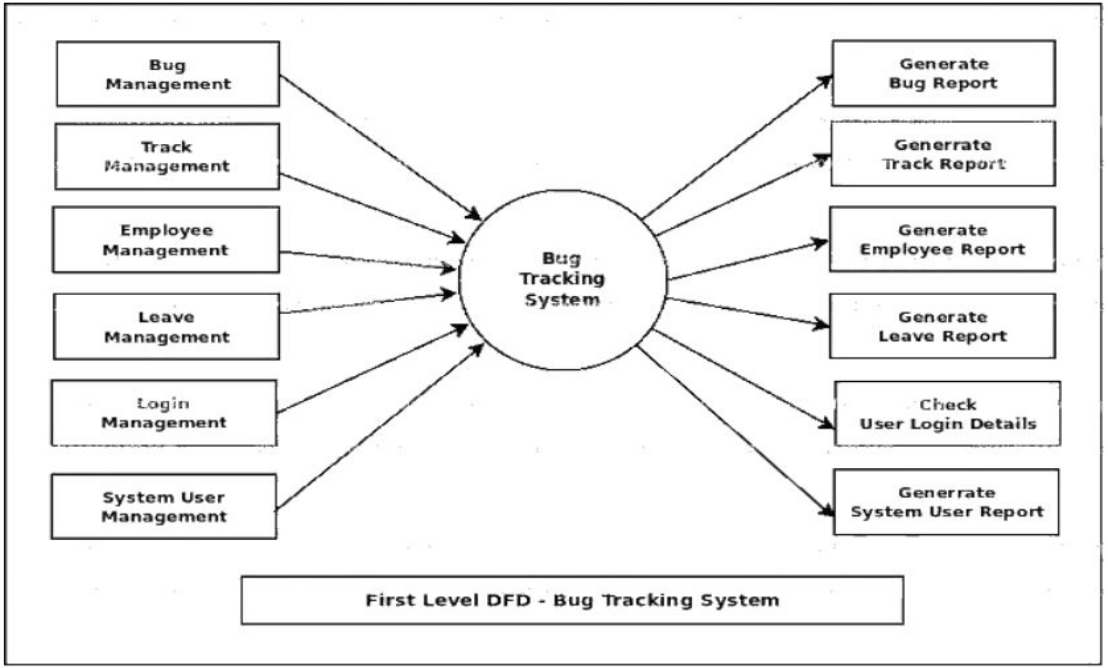
DFD DIAGRAM



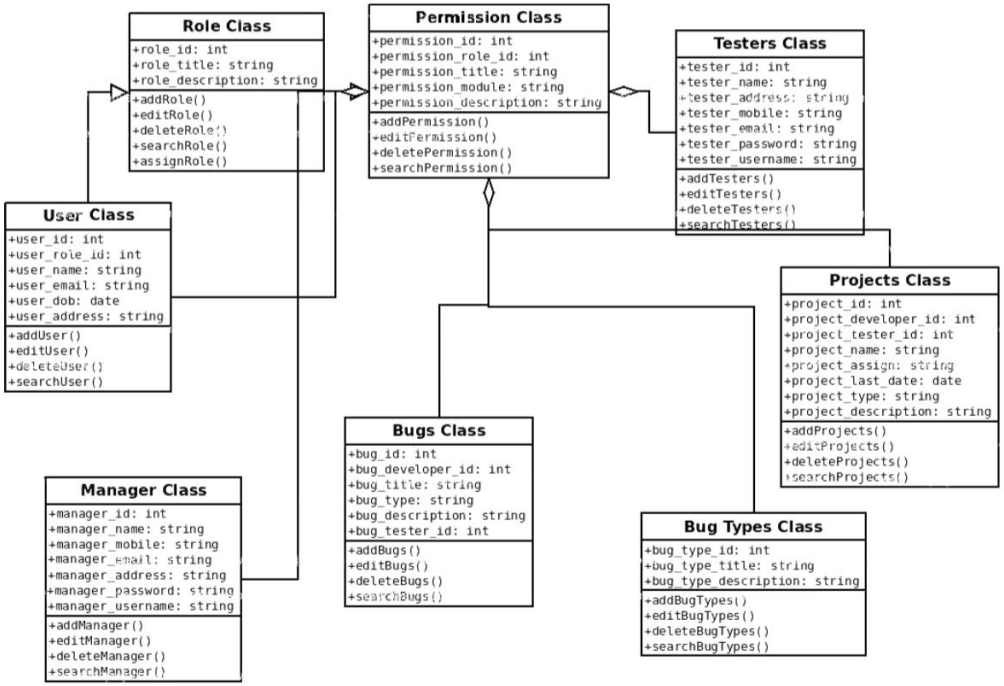
DFD LEVEL 0 Diagram

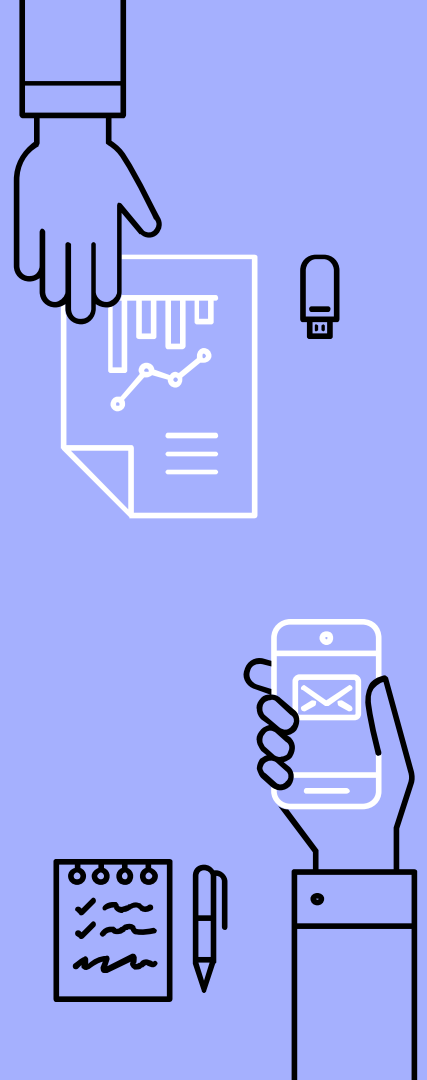


DFD DIAGRAM

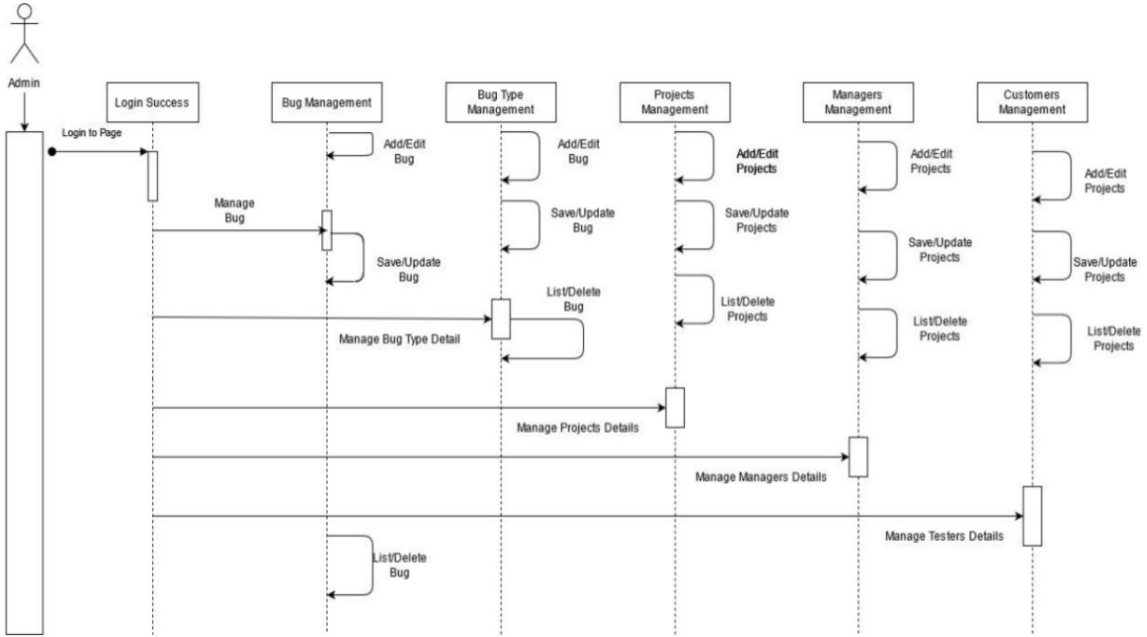

Bug Management
Track Management
Employee Management
Leave Management
Login Management
System User Management
Bug Tracking System
Generate Bug Report
Generrate Track Report
Generate Employee Report
Generate Leave Report
Check User Login Details
Generrate System User Report
First Level DFD - Bug Tracking System

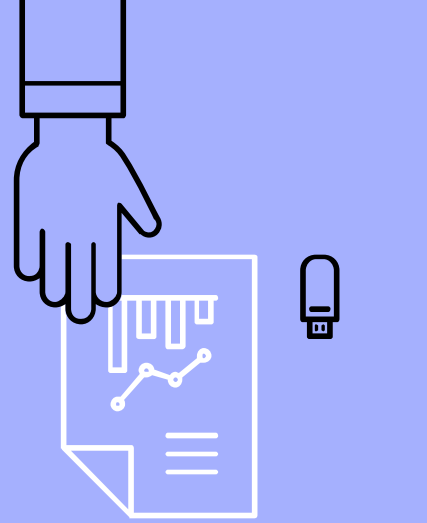
CLASS DIAGRAM



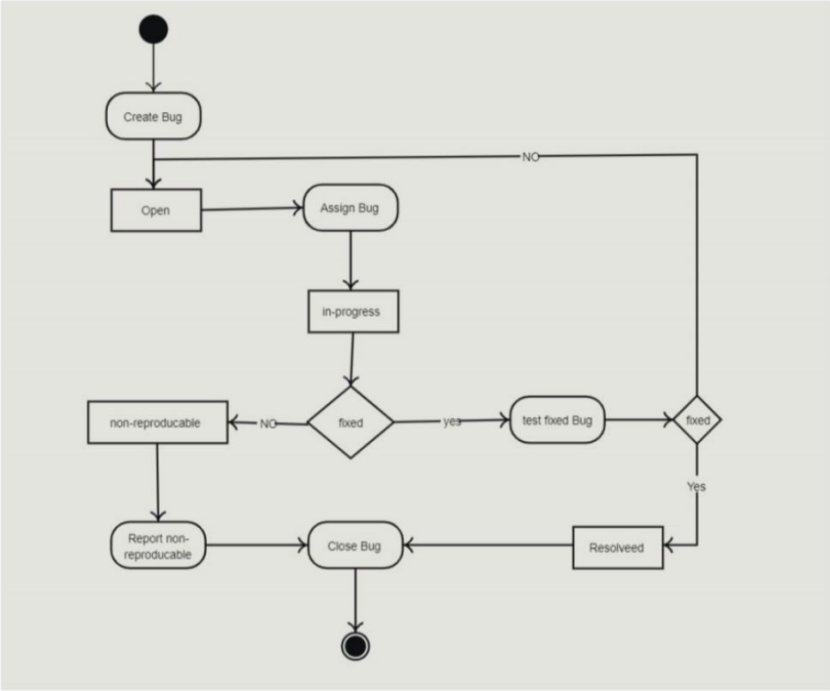


SEQUENCE DIAGRAM

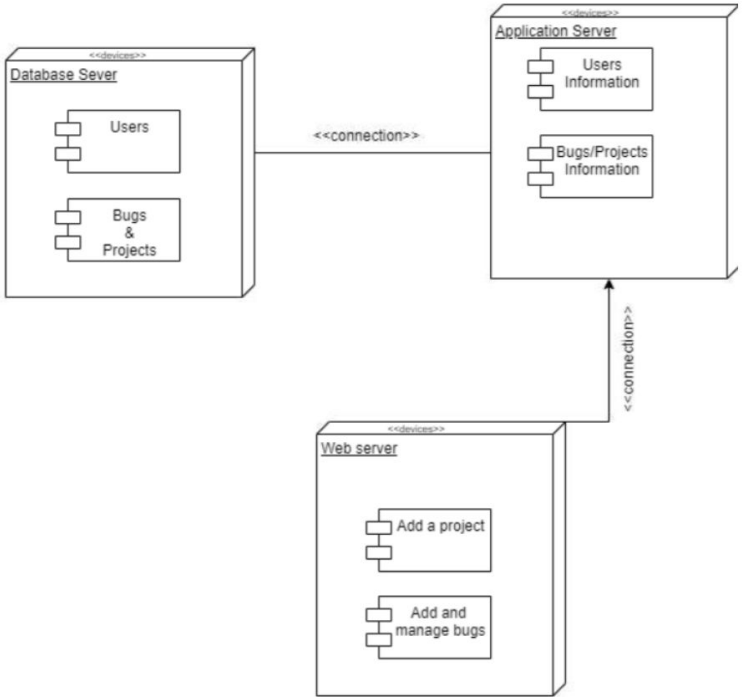




STATE DIAGRAM



DEPLOYMENT DIAGRAM



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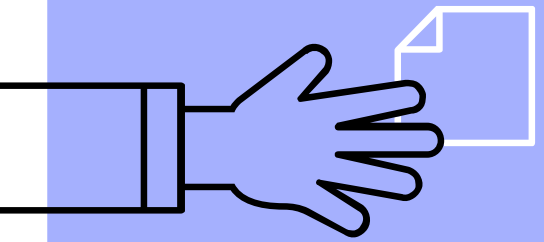
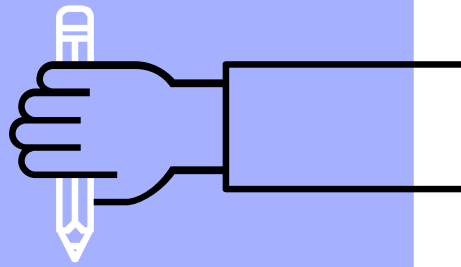
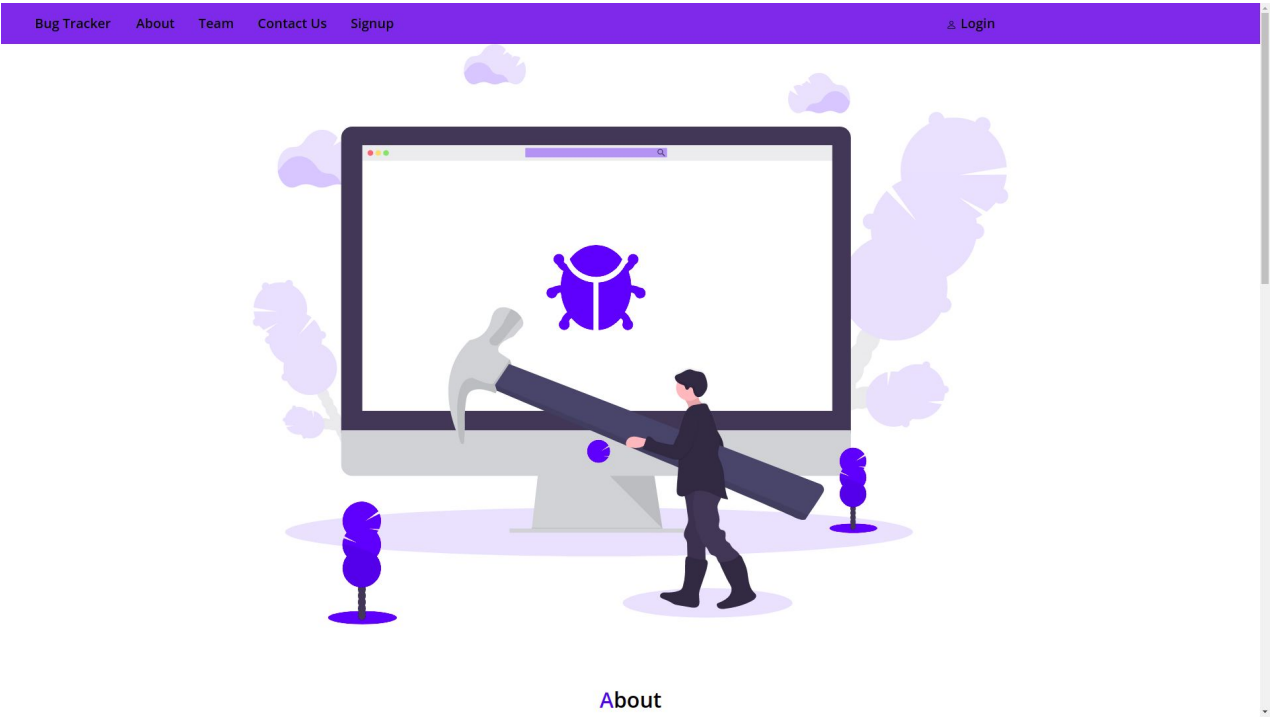




LANDING PAGE



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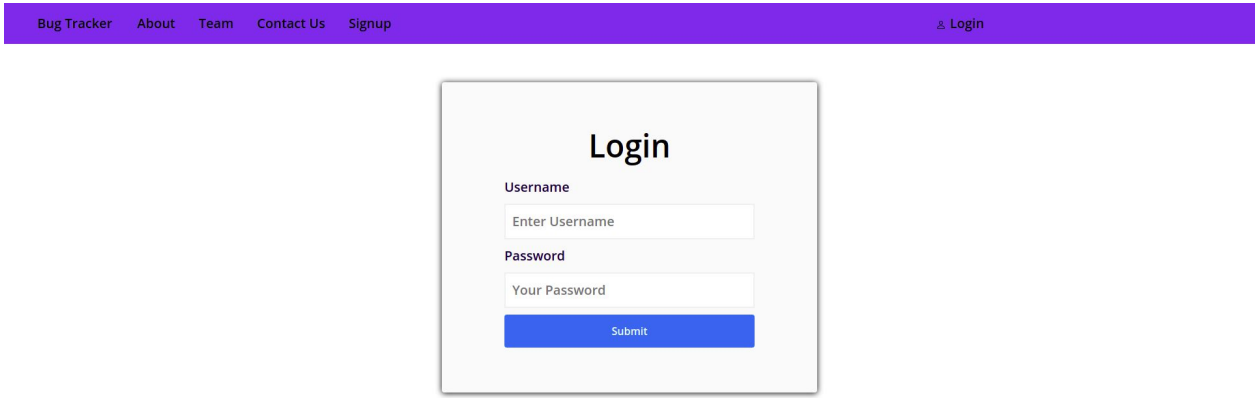
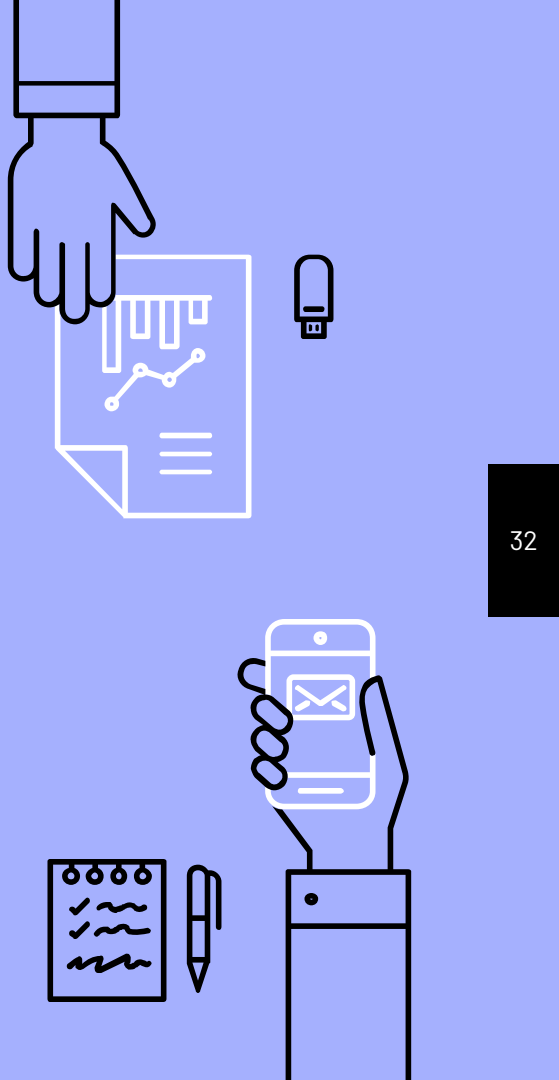
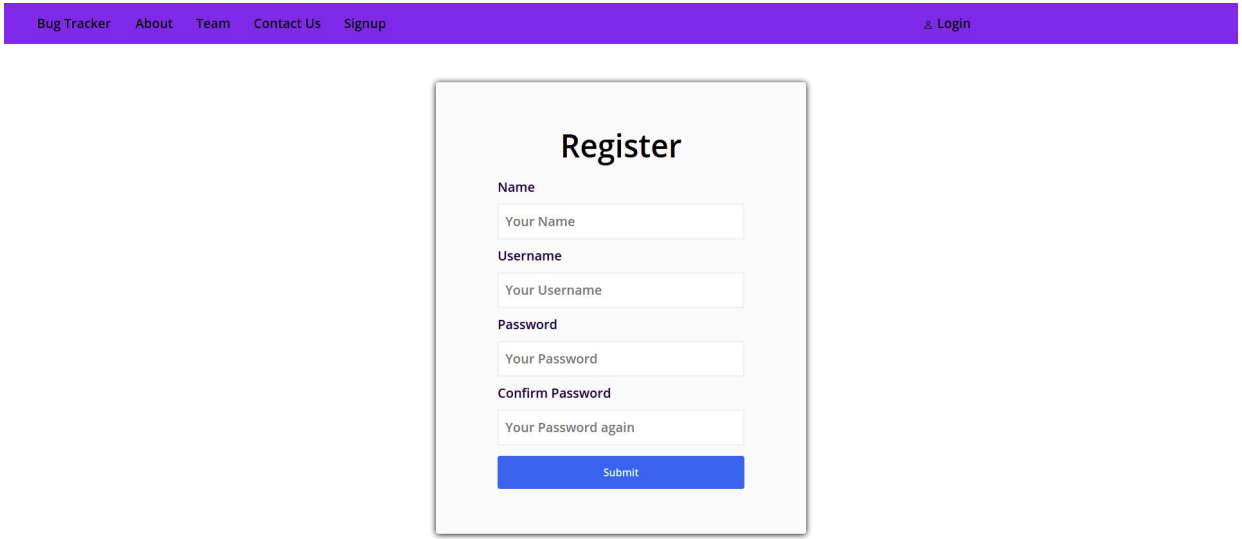
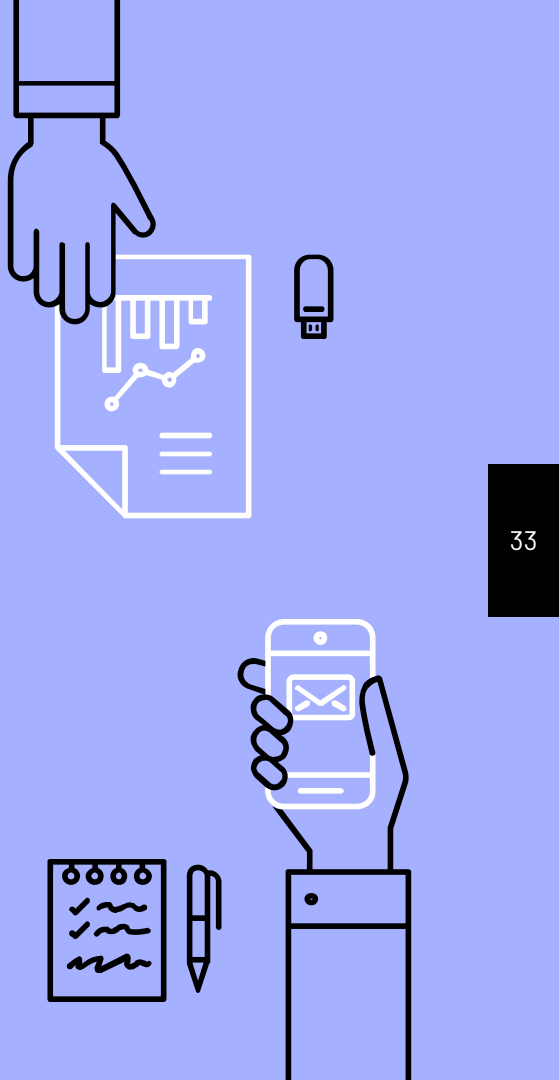

Bug Tracker
About
Team
Contact Us
Signup
Login
Login
Username
Enter Username
Password
Your Password
Submit

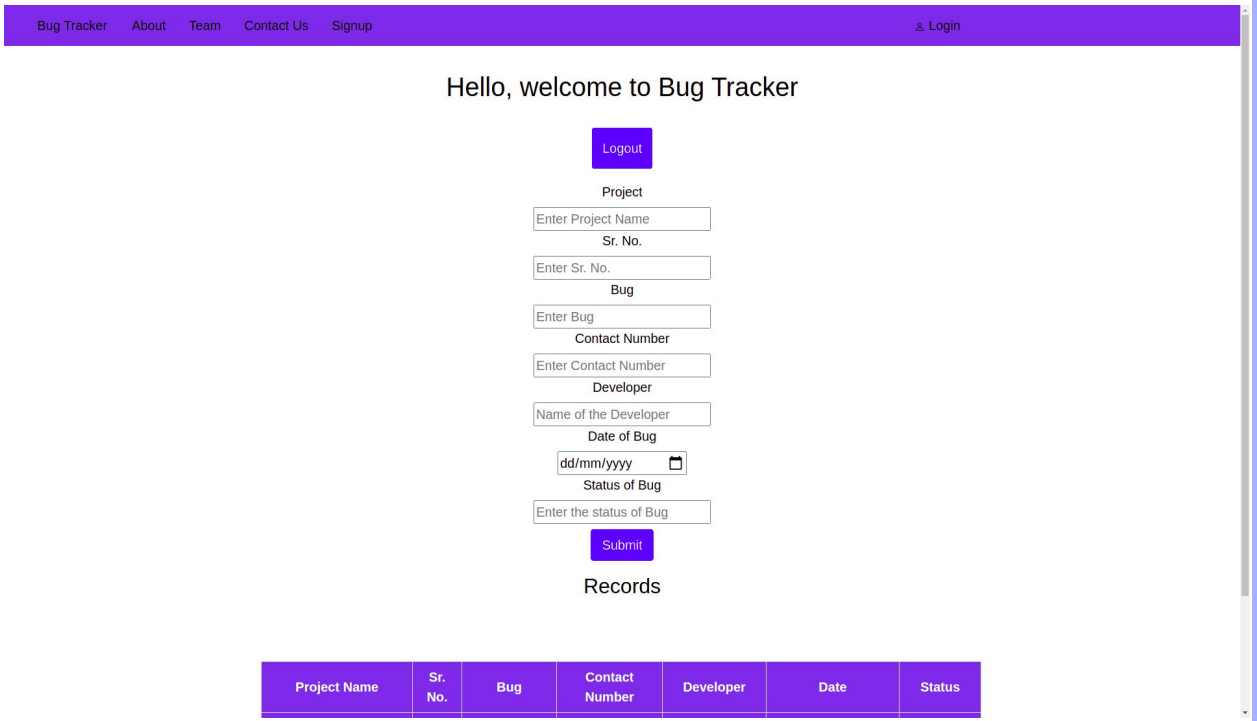


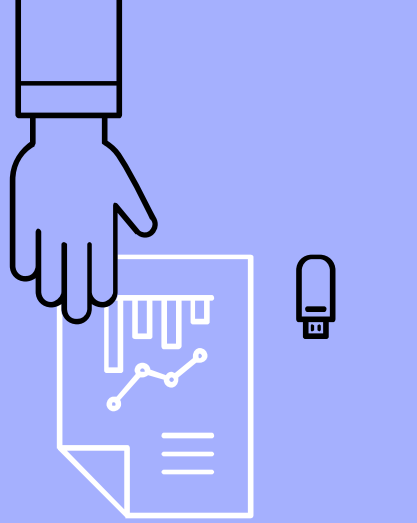
SIGNUP PAGE


Bug Tracker
About
Team
Contact Us
Signup
Login
Register
Name
Your Name
Username
Your Username
Password
Your Password
Confirm Password
Your Password again
Submit



MAIN PAGE


Bug Tracker
About
Team
Contact Us
Signup
Login
Hello, welcome to Bug Tracker
Logout
Project
Enter Project Name
Sr. No.
Enter Sr. No.
Bug
Enter Bug
Contact Number
Enter Contact Number
Developer
Name of the Developer
Date of Bug
dd/mm/yyyy
Status of Bug
Enter the status of Bug
Submit
Records
Project Name
Sr. No.
Bug
Contact Number
Developer
Date
Status



THANKS!