**BUG Tracking System**

Table Contents:

1. Problem Statement

2. Functional Specification

3. Technical Description

**1. Problem Statement**

* A bug tracking system is a software application that is designed to help quality

assurance and programmers keep track of reported software bugs in their work.

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

**2. Functional Specification**

* Bug tracking system is the perfect or unique solution to track the bugs of a solution, product or an application.
* No GUI as it is a console .
* Employee details are required for login.
* Project Details are required for managing projects
* Ticket Details are required for managing tickets.
* All files are required for sorting report in .txt format

**3. Technical Specification:**

* Store all details in comma separated file
* Ask user for login details i.e. Employee\_id and password
* If login is successful display BUG Tracking Menu
* If login not successful ask user to re-enter login credentials and allow only 3 chances for trying again
* Main Menu:

1. Login
2. Register

* Bug track menu:

1. Manage Projects:

Only projects created by login employee can be modified.

Only projects which do not have any tickets raised can be deleted

1. Manage Tickets:

Information about tickets is stored in “tickets.txt” file where one line corresponds to one bug

1. Manage Reports:

Generate report as per priority of project or projects assigned by logged-in employee.

Detailed Specification:

1. Manage Projects:
2. Add
3. Delete
4. Modify
5. Quit
6. Manage Tickets:
7. Add
8. Close
9. Get BUG report
10. Add note
11. Modify :

v.1) Open

v.2) Assigned

v.3) Fixed

v.4) Submitted

v.5) Quality Checked

v.6) Close

1. Quit
2. Manage Reports:
3. Prioritize list of reports not closed
4. Prioritize list of reports assigned to logged in employee
5. Prioritize list of reports created by logged in employee
6. quit

Data required:

1. Employee Details (emp\_id, emp\_name, email\_id only official, mobile no., department , password )
2. Project Details (project\_id, description, duration, start\_date, end\_date, number of members, department)

* Load data in a linked list to store all details and later write in a file.
* Date validation:

Check while entering details (e.g.: email id must contain @, phone number length must be 10, pan number should be unique, digits are not allowed in the name field)