Introduction

The Bug Tracking Application is a software tool designed to track and manage software defects or bugs throughout the software development lifecycle. This document outlines the use cases of the Bug Tracking Application to provide a clear understanding of its functionalities and features.

**BUG TRACKER APPLICATION**

* **Use Case: Report Bug**
* **Brief Description** – The user describes the process of reporting a bug
* **Actors** – User
* **Preconditions** –User is logged into the system.
* **Basic Flow** –
* 1. User opens the bug tracking application
* 2.User selects the option to report a new bug.
* 3. User provides details such as bug summary, description, steps to reproduce and attachments.
* 4.User submits the bug report.
* 5. System stores the bug report in the database
* **Alternate Flows** – None
* **Post Conditions**: Bug details are successfully added to the system.

**BUG TRACKER APPLICATION**

* **Use Case: Track Bug Status**
* **Brief Description** – The user describes how users can track the status of a reported bug.
* **Actors** – User
* **Preconditions** –User is logged into the system.
* **Basic Flow** –
* 1. User opens the bug tracking application and navigates to bug tracking section.
* 2.System retrieves the bug details and displays the status.
* 3. User views the bug details, assigned priority, assigned developer.
* 4. User can update the bug’s status, add comments, or request additional information.
* **Alternate Flows** – None
* **Post Conditions**: Status of bug can be viewed successfully.

**BUG TRACKER APPLICATION**

* **Use Case: Assign and resolve bug**
* **Brief Description** – The process of assigning and resolving bugs.
* **Actors** – Developer
* **Preconditions** –Developer is logged into the system.
* **Basic Flow** –
* 1.Developer navigates to assigned bug’s section.
* 2.Developer selects a bug to work on.
* 3. Developer updates the bug status to “In progress” starts working on it.
* 4. Developer makes necessary code changes or tests the application to reproduce the bug.
* 5. Developer updates the bug status to “Resolved” if the bugs is fixed or “Cannot reproduce” if the bug cannot be reproduced
* 6. Developer adds comments, attaches relevant files.
* 7. Developer assigns the bug back to another developer for verification.
* **Alternate Flows** – None
* **Post Conditions**: Bugs can be resolved successfully.

**BUG TRACKER APPLICATION**

* **Use Case: Generate bug reports**
* **Brief Description** – The admin can generate bug reports
* **Actors** – Administrator
* **Preconditions** –Admin is logged into the system.
* **Basic Flow** –
* 1. Admin accesses the reporting section.
* 2.Admin selects the desired parameters such as date range, priority .
* 3.System generates the bug reports
* 4. Admin views bug related metrics such as the number of open bugs, resolved bugs, average resolution time.
* **Alternate Flows** – None
* **Post Conditions**: Bug report generated successfully.