



Use Case UC-001: **Create a New Bug Report**

System: Bug Tracking System

Primary Actors: Developer, Manager, Administrator

Use Case Goal: The primary goal of this use case is to allow users to create a new bug report in the Bug Tracking System.

Preconditions:

1. The user is logged into the Bug Tracking System.
2. The user has appropriate permissions to report bugs.
3. The user has access to the bug reporting form.

Basic Flow:

1. The user accesses the bug reporting functionality in the system.
 2. The user fills out the bug reporting form, providing details such as program, release, version, report type, severity, problem summary, etc.
 3. The user submits the bug report.
 4. The system validates the input and creates a new bug report entry in the database.
 5. The system assigns a unique problem report number to the bug report.
 6. The user receives confirmation of successful bug report submission.
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Use Case UC-002: **Updating an Existing Bug Report**

System: Bug Tracking System

Primary Actors: Manager, Administrator

Use Case Goal: The primary goal of this use case is to allow users to update an existing bug report in the Bug Tracking System.

Preconditions:

1. The user is logged into the Bug Tracking System.
2. The user has appropriate permissions to update bug reports.
3. The user has access to the bug report that needs to be updated.

Basic Flow:

1. The user accesses the bug report that needs to be updated.
2. The user edits the necessary fields in the bug report, except for the problem report number.
3. The user submits the updated bug report.
4. The system validates the input and updates the bug report entry in the database.
5. The user receives confirmation of successful bug report update.

Use Case UC-003: **Management Functions for the Database**

System: Bug Tracking System

Primary Actors: Administrator

Use Case Goal: The primary goal of this use case is to allow administrators to perform management functions on the database, including adding, updating, or deleting programs, areas, and employees.

Preconditions:

1. The user is logged into the Bug Tracking System as an administrator.
2. The user has appropriate permissions to manage database records.

Basic Flow:

1. The administrator accesses the management interface in the Bug Tracking System.
2. The administrator selects the desired management function (e.g., add, update, delete).
3. The administrator provides necessary details for the selected function (e.g., program details for adding a new program).
4. The system executes the requested management function on the database.
5. The administrator receives confirmation of successful execution of the management function.