

## Problem Description: (Nouns, Verbs)

In the context of a software development company facing challenges with bug management, there's a need for a systematic bug tracking system. This system should allow assignment of bugs to team members, facilitate tracking of bug resolution progress, and maintain records of bugs for analysis and improvement. The proposed solution involves developing a database-driven application to bug tracking and resolution processes.

### Rules:

Bugs can be assigned to multiple developers.

Each bug has a specific status indicating its progress (e.g., Not started, Going On, Completed).

Team members can update the status of bugs assigned to them.

Bugs can be categorized based on severity (e.g., Not important, Semi important, important, urgent).

Each bug is associated with a timestamp indicating when it was reported.

Each bug is associated with a timestamp indicating when the bug is opened by a developer.

Team members can add description or notes to bugs to provide additional context or updates.

Bugs can be filtered based on various criteria such as status, severity, assigned team member, etc.

The history of the bugs are allocated in a specific table.

When a bug is found, there is a specification on what framework it was found in (e.g. React, Next JS etc.)

The bug tracking system should support multiple projects, each with its own set of bugs and team members.

Project managers can view comprehensive reports and analytics on bug trends, resolution times, etc.

The system should ensure integrity of data and secure of data, with appropriate access controls for different user roles.

### Important Nouns:

Bug  
Developers  
Status  
Severity  
Timestamp  
description  
Project

### Important Verbs:

Assign  
Update  
Categorize

Filter

View

Add

Generate

Secure

Access

Track