

Bug Tracker Web Application – Conception Phase

Concept Overview

This web application is a simplified bug tracking tool tailored for freelance developers and small teams who need to monitor and manage software issues efficiently. It allows users to create projects, log and assign bugs, set priorities, and track their status from "Open" to "Closed". This simulates the functionality of professional tools like Jira in a simplified, personal scale, ideal for demonstrating full-stack web application development skills.

Target User Group

Freelance developers or students working on solo or team-based projects.

Small teams needing a lightweight tool to manage software bugs and features.

Value to the Users

Enables clear tracking of tasks and software bugs in development workflows.

Supports assignment and status updates, improving team transparency and task resolution.

Prepares users for working in a structured, issue-driven development process.

Technology Choices

Frontend: React.js with Tailwind CSS for a responsive and modern UI

Backend: Java Spring Boot for RESTful API with JWT-based user authentication

Database: PostgreSQL with JPA/Hibernate for relational data persistence

Tooling: Swagger (API documentation), GitHub (version control)

High-Level Architecture Diagram

