Design Specifications

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Packages

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Dependencies

- **Front-End (Angular 4):**

  - **Node.js (version 6.9 or higher):** JavaScript runtime environment.
  - **npm (version 3 or higher)**
  - **Angular CLI (@angular/cli)**
  - **Angular Framework (@angular/*):** Includes the core Angular modules and libraries:
    * `@angular/core`
    * `@angular/common`
    * `@angular/compiler`
    * `@angular/platform-browser`
    * `@angular/platform-browser-dynamic`
    * `@angular/router`
    * `@angular/forms`
    * `@angular/http`

    These are managed by npm.
  - **TypeScript**

- **Back-End (Java/Spring):**

  - **Java 8 (JDK or OpenJDK):** The programming language and development kit.
  - **Spring Framework (Spring Boot):** The core Java enterprise framework. Key dependencies include:
    * `spring-boot-starter-web`

    Dependencies are managed by **Gradle**.
  - **Gradle:** Build automation tool for Java projects.
  - **Microsoft SQL Server JDBC Driver (sqljdbc42.jar):** A Java Database Connectivity driver for connecting to Microsoft SQL Server.

- **Database Management:**

  - **Microsoft SQL Server:** The relational database management system.
  - **Microsoft SQL Server Management Studio (SSMS)**
  - **DBeaver (Alternative):** Universal database tool.

Libraries

- RxJS