



*Company B*

**Manufacturing and Assembly  
Line Planning and Management**

User Guide

## System Requirements

### i) *Software Requirements:*

- Java version 17.0.2
- Java JDK 17
- Maven 3 or later
- Springboot version 3.10.1
- IDE (IntelliJ ID, VS Code)

### ii) *Hardware Requirements:*

- Processor: Minimum 2 GHz dual-core processor
- Memory: Minimum 4 GB RAM
- Storage: 10 GB or more of free disk space

## Installation and Setup

### i) *Downloading the Source Code*

Clone the backend repository from your favourite Git client

Repository link –<https://github.com/PrabathBK/CompanyB>

### ii) *Building the Application*

Clone the repository containing the Manufacturing and Assembly Line Planning and Management application's source code to get started. Verify that MongoDB, Spring Boot, and the Java Development Kit (JDK) are installed on your computer. To run the Spring Boot application, either as a stand-alone Java application or using an IDE of your choice, use the CLI. After the application is running, all of the backend functionality may be accessed using the different API endpoints that are set within the controllers.

Postman can be used to test the API endpoints. Request the desired actions be carried out, and then follow the provided business logic to ensure that the responses match expectations.

Customise and improve the application to suit your needs, this could entail adjusting current features, introducing new ones, or, if needed, integrating with other systems. Finally deploy the application to cloud platforms

## Configuration

- i) *Database Configuration:*
  - Database Type: MongoDB
  - Host: localhost
  - Authentication: Enabled
  
- ii) *Framework Configuration (Spring Boot):*
  - Spring Boot Version: 3.10.1
  - Dependency Management: Maven
  
- iii) *Security Configuration:*
  - Authentication Method: Username/Password
  - Password Policy: Minimum 8 characters, alphanumeric