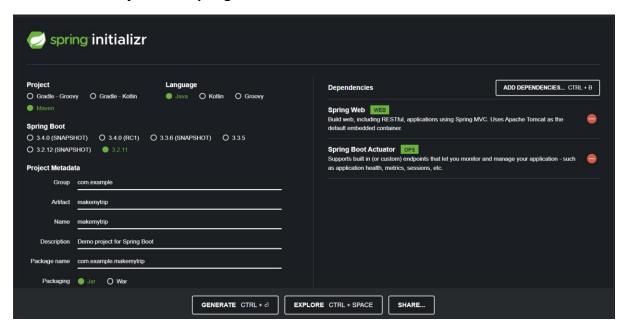
# 1<sup>St</sup> Assignment

#### **Spring Boot Project Setup and Version Control Workflow**

1. Create a New Project with Spring Initializr



- Go to Spring Initializr.
- Set up your project with desired dependencies (e.g., Spring Web).
- Click Generate to download the project ZIP file.

## 2. Set Up Workspace

- o Create a folder named myworkspace in the C drive.
- Extract the downloaded project ZIP file into C:\myworkspace.

## 3. Create a GitHub Repository

- Go to <u>GitHub</u> and create a new repository.
- o Copy the repository URL for use later.

## 4. Build and Run the Spring Boot Application

 Open a terminal, navigate to your project folder in myworkspace, and run these commands:

bash

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mvn clean compile # Compiles the project

mvn clean package # Packages the project as a JAR file mvn spring-boot:run # Runs the Spring Boot application

• Verify the application is running at http://localhost:8080.

#### 5. Connect to GitHub

- o Open your IDE (IntelliJ IDEA or VS Code).
- Go to VCS (Version Control System) and select Git.
- o Connect to the GitHub repository by pasting the repository URL.
- o Push the code to GitHub:

bash

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git push origin master

#### 6. Create Branches

• Create the following branches in your local repository:

bash

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git branch master # Creates master branch (if not already created)

git branch prod # Creates prod branch

git branch preprod # Creates preprod branch

git branch dev # Creates dev branch

#### 7. Fetch and Work on the dev Branch

Fetch branches from the remote repository:

bash

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git fetch origin

o Switch to the dev branch:

bash

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git checkout dev

Stage, commit, and push changes to the dev branch:

bash

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git add .

git commit -m "Initial commit on dev branch"

git push origin dev

# 8. Merge dev into preprod on GitHub

- $\circ\quad$  Go to your GitHub repository.
- o Open a Pull Request (PR) to merge the dev branch into the preprod branch.
- o Review and merge the PR to complete the process