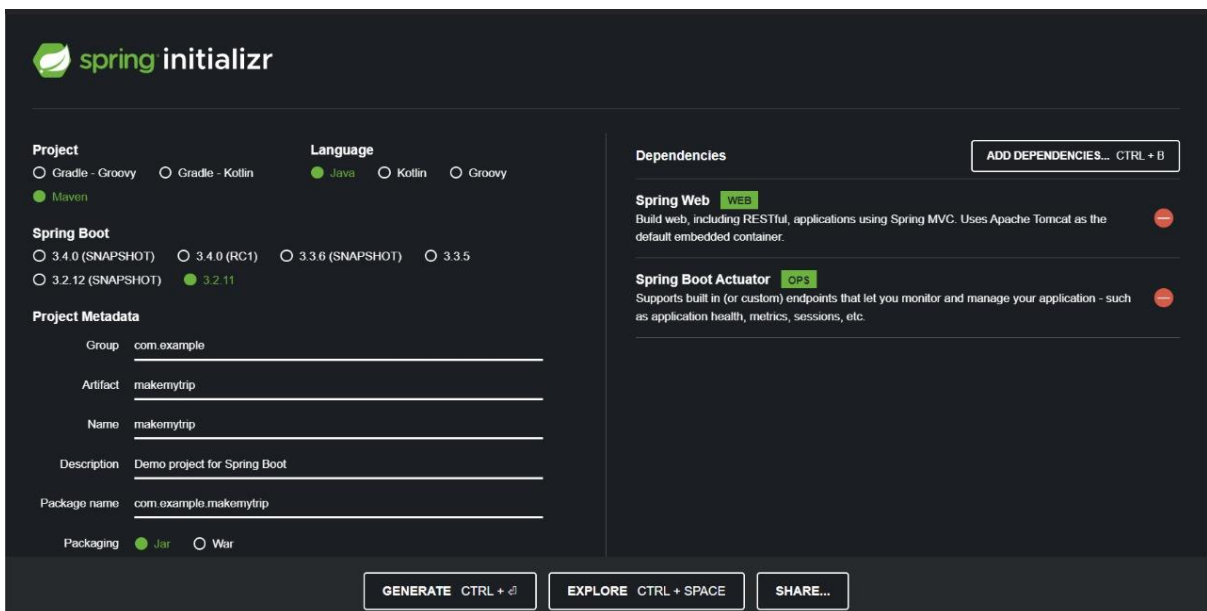


1st Assignment of devops

1. Create a New Project with Spring Initializr

- Go to [Spring Initializr](https://start.spring.io).
- Set up your project dependencies as needed.
- Generate and download the project.



The screenshot shows the Spring Initializr web interface. The 'Project' section has 'Maven' selected. The 'Language' section has 'Java' selected. The 'Spring Boot' section has '3.2.11' selected. The 'Project Metadata' section has 'Group' as 'com.example', 'Artifact' as 'makemytrip', 'Name' as 'makemytrip', 'Description' as 'Demo project for Spring Boot', and 'Package name' as 'com.example.makemytrip'. The 'Packaging' section has 'Jar' selected. The 'Dependencies' section has 'Spring Web' and 'Spring Boot Actuator' selected. At the bottom, there are buttons for 'GENERATE CTRL + G', 'EXPLORE CTRL + SPACE', and 'SHARE...'.

2. Set Up Workspace

- Create a folder named myworkspace.
- Extract the downloaded project into the myworkspace folder.

3. Create a GitHub Repository

- Go to GitHub and create a new repository.
- Copy the repository URL.

4. Build and Run the Spring Boot Application

- Open a terminal and navigate to your project folder in myworkspace.
- Run the following commands:

bash

Copy code

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

5. Connect to GitHub

- Open your IDE (e.g., IntelliJ or VS Code).
- Click on **VCS** (Version Control System) and select **Git**.
- Connect to the GitHub repository by pasting the repository URL.
- Push the code to GitHub using:

bash

Copy code

git push origin master

6. Create Branches

- Create the following branches:
 - master
 - prod
 - preprod
 - dev
- In the terminal, use these commands:

bash

Copy code

```
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 the branches from the remote repository:

```
bash
```

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```
git fetch origin
```

- Check out the dev branch:

```
bash
```

Copy code

```
git checkout dev
```

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

```
bash
```

Copy code

```
git add .
```

```
git commit -m "Initial commit on dev branch"
```

```
git push origin dev
```

8. Merge dev into preprod on GitHub

- Go to your GitHub repository.
- Open a **Pull Request** to merge the dev branch into the preprod branch.

- Review and merge the pull request.