# Lab Experiment 1: Setting Up a Jenkins Job for Maven Build

Objective: Create a Jenkins job that builds a Maven project using Jenkins and triggers the build on changes in the version control repository.

#### **Prerequisites:**

- Jenkins server up and running.
- Maven installed on the Jenkins server.
- A Maven project hosted in a version control repository (e.g., Git).

### **Steps:**

#### Jenkins Configuration:

- Ensure that Jenkins is installed and accessible.
- Install necessary plugins: Maven Integration Plugin.

### **Creating a Jenkins Job:**

- Log in to your Jenkins instance.
- Click on "New Item" to create a new Jenkins job.
- Enter a name for the job (e.g., "Maven\_Build") and select "Freestyle project."

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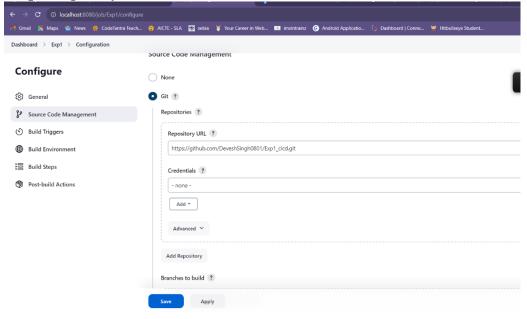
# **Configuring Source Code Management:**

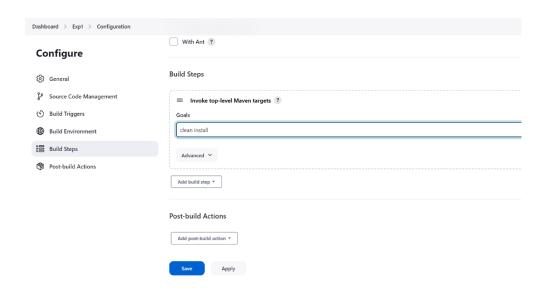
- Under the "Source Code Management" section, choose your version control system (e.g., Git).
- Provide the repository URL and credentials if needed.

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5 cd \cdot \cd
```

# **Configuring the Build:**

- In the "Build" section, click on "Add build step" and select "Invoke top-level Maven targets."
- In the "Goals" field, enter the Maven goals you want to execute (e.g., "clean install").
- Setting Up Polling for Changes:
- Scroll down to the "Build Triggers" section.
- Choose the option "Poll SCM" and specify the polling schedule (e.g., "\* \* \* \* \*" for polling every minute).





#### Save and Run the Job:

- Click on "Save" to save the job configuration.
- Click on "Build Now" to manually trigger the job initially.

## **Observing the Results:**

- Monitor the job's console output to see the Maven build process.
- Check the build status (success/failure) on the Jenkins dashboard.

