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Lab Exercise 6.2
Creating a New Jenkins Job to Checkout Source Code

Objective: To set up a Jenkins job to manage source code, specifically by configuring the Source Code Management section to check out code from a Git repository

Tools required: Jenkins

Prerequisites: Jenkins must be operational.

Steps to be followed:

1. Log in and create a Jenkins job
2. Configure source code management

Step 1: Log in and create a Jenkins job

1. Navigate to **localhost:8080** in your web browser, enter your credentials, and click on **Sign In**

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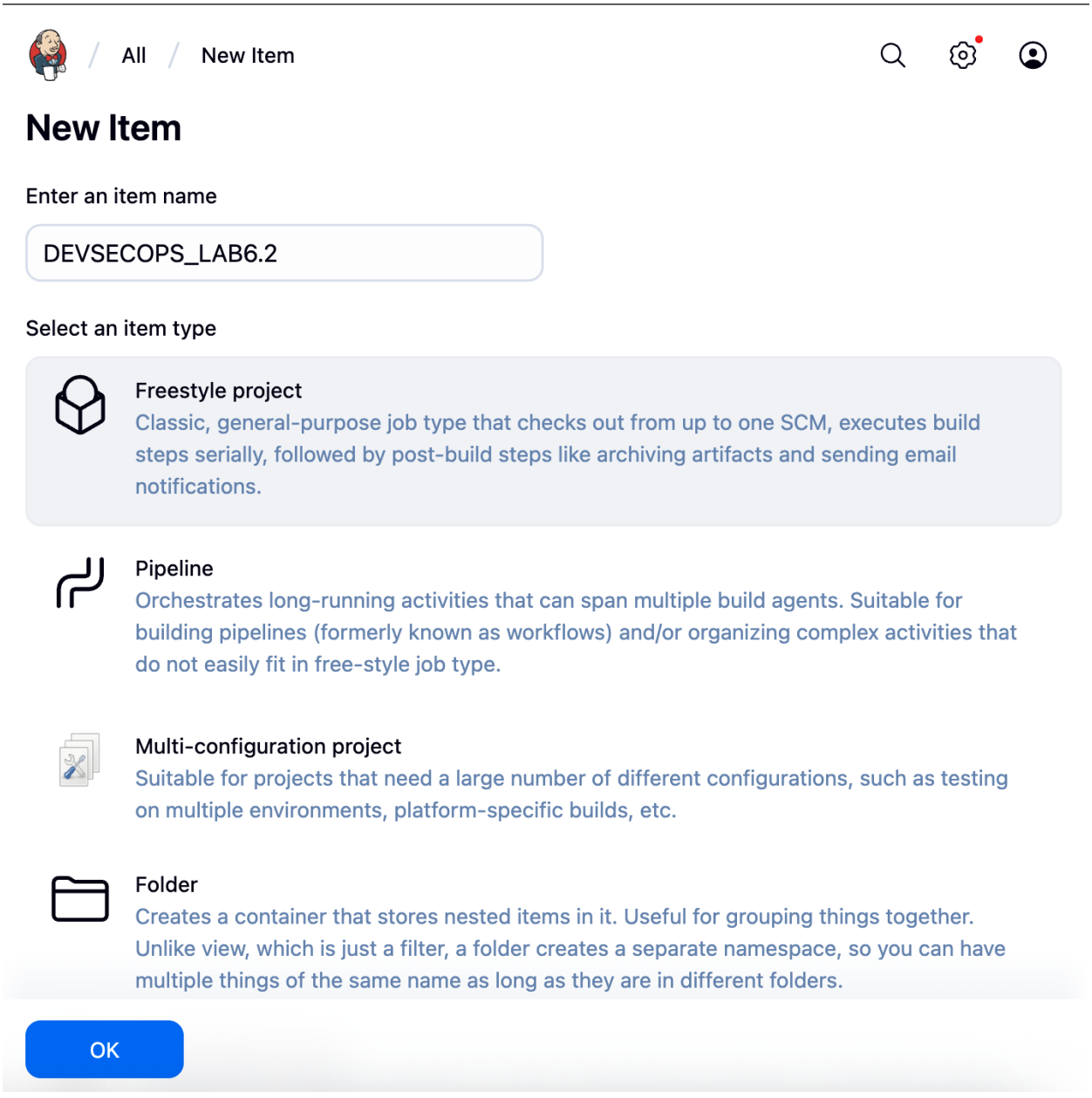
2. Create a new Jenkins job by clicking on **New Item**

3. Provide custom job name inside the field **Enter an item name,** select the **Freestyle project** option, and click on the **OK** button to save the job



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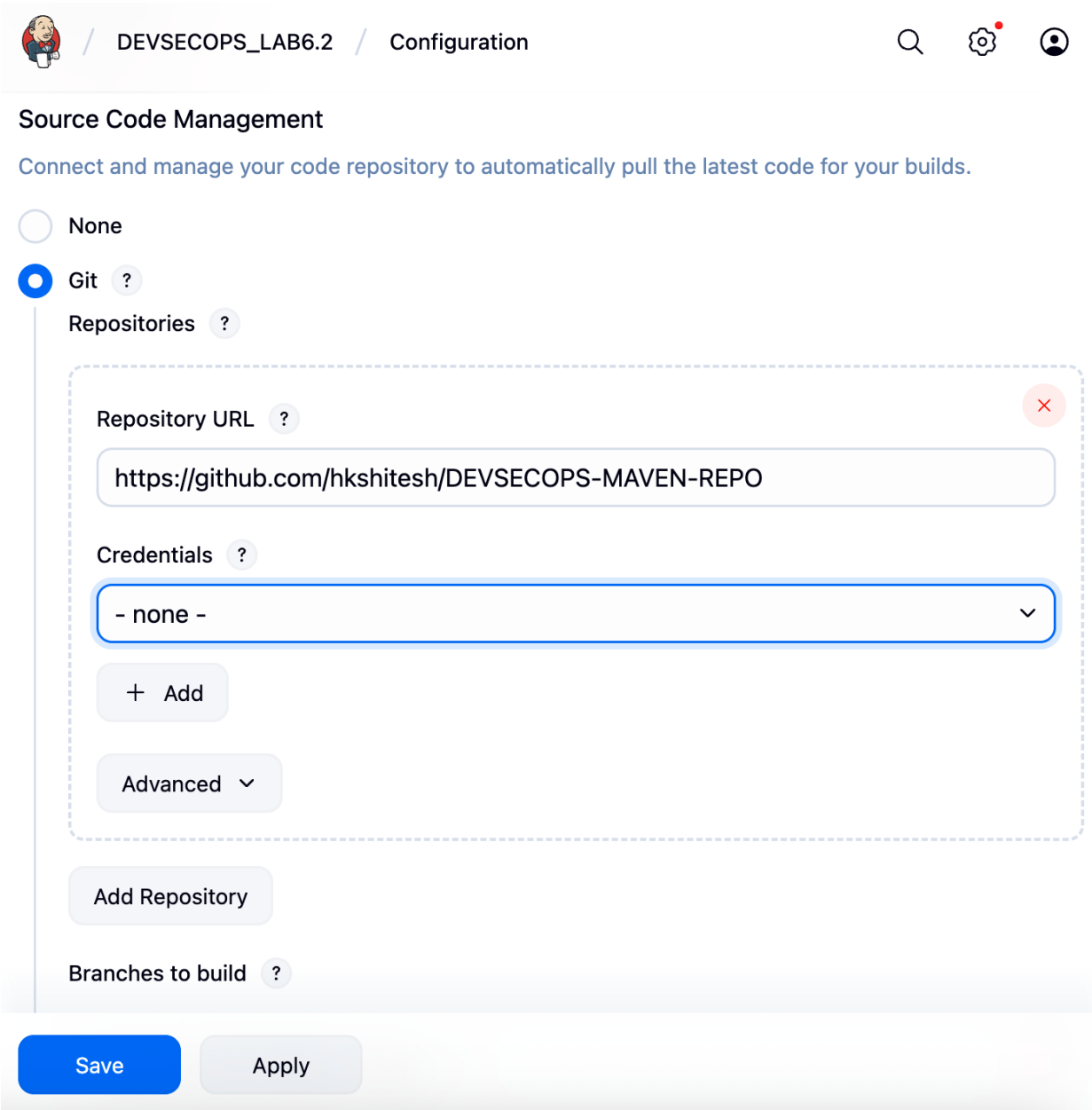
Step 2: Configure source code management

1. Access the newly created job's configuration screen by clicking on **Configure**

2. Navigate to the **Source Code Management** tab, provide Git repository configuration inside the **Repository URL** field, and click on the **Save** button



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3. Then, click on the **Build Now** option to schedule a build

4. To schedule the build, click the required link under **Permalinks**

5. Click on **Console Output** to check out the process during the build process

By following these steps, you have successfully set up a Jenkins job to automatically check out source code from a Git repository, enabling seamless integration and automation in your CI/CD pipeline.

Console Output

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```
Started by user Mohd Anas
Running as SYSTEM
Building in workspace /Users/mohdanas/.jenkins/workspace/DEVSECOPS_LAB6.2
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO
 > git init /Users/mohdanas/.jenkins/workspace/DEVSECOPS_LAB6.2 # timeout=10
Fetching upstream changes from https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO
 > git --version # timeout=10
 > git --version # 'git version 2.39.5 (Apple Git-154)'
 > git fetch --tags --force --progress -- https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git config remote.origin.url https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO # timeout=10
 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
 > git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 04a6890beda18d9a0604c2a45835912c4cdb966b (refs/remotes/origin/master)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 04a6890beda18d9a0604c2a45835912c4cdb966b # timeout=10
Commit message: "div() added"
First time build. Skipping changelog.
Finished: SUCCESS
```