✅ Jenkins Job Explanation: Assignment02

You've successfully configured and run a Jenkins job named **Assignment02** to automate building a Maven-based Java project from your GitHub repository. Here's a breakdown of each step based on the screenshots:

🔁 STEP 1: Create a New Job in Jenkins

1. Navigate to Jenkins dashboard.

2. Click on **"New Item"**.

3. Enter the name: `Assignment02`.
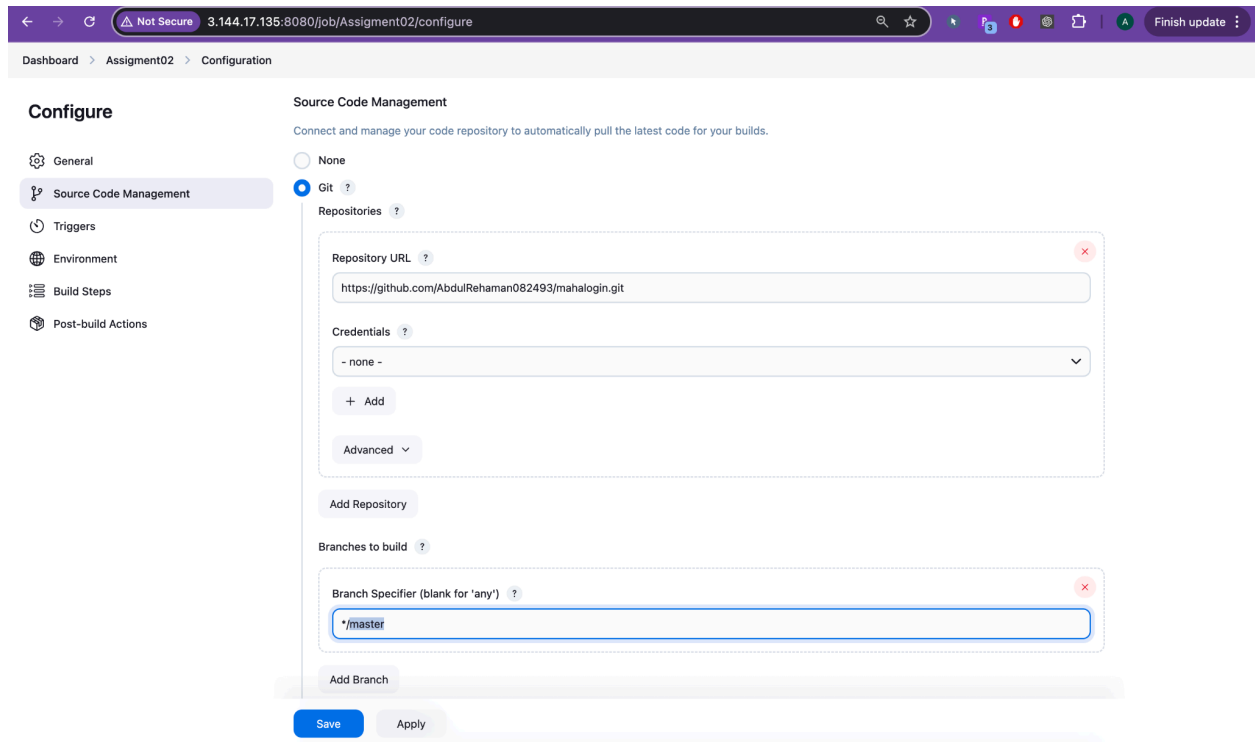
4. Select **"Freestyle project"** and click **OK**.

🔧 STEP 2: Configure GitHub Repository (Source Code Management)

Location: `Configure > Source Code Management`

1. Select Git.

2. In Repository URL, enter: https://github.com/AbdulRehaman082493/mahalogin.git
3. 3.Leave Credentials as `- none -` (because it's a public repo).
4. In Branches to build, enter:

    */master

This means Jenkins will track the `master` branch.

⚙️ STEP 3: Add Build Step Using Maven

Location: `Configure > Build Steps`

1. Click Add build step → Invoke top-level Maven targets.

2. In Goals, type:

   clean install

This command:

- Deletes the `target/` folder.

- Compiles the project.

- Runs tests.

- Packages and installs the `.war` file locally.

🧪 STEP 4: (Optional) Add Post-Build Actions

You can add email notifications, artifact archiving, deployment steps, etc.

1. Click **Add post-build action**.

2. Choose what fits your pipeline (not configured in your current setup).
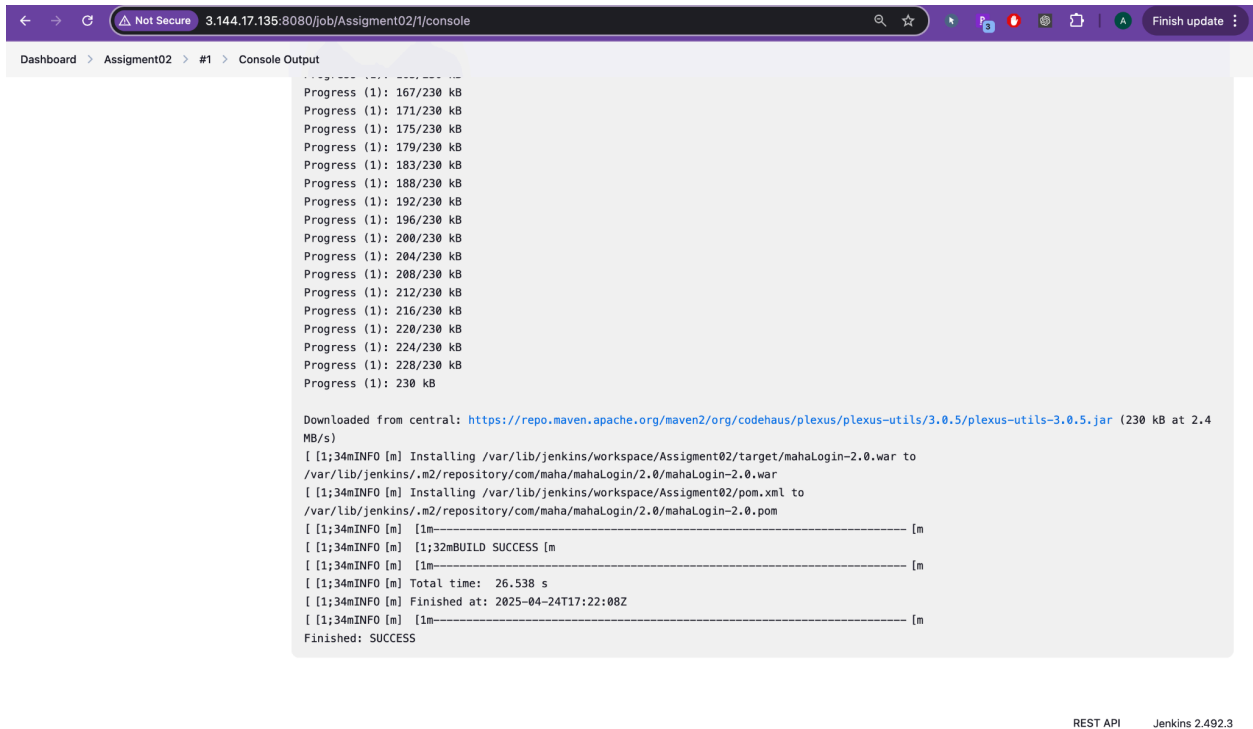
💾 STEP 5: Save and Run the Job

1. Click **Save**.

2. On the job page, click **Build Now**.

📋 STEP 6: Review the Console Output

Location: `Assignment02 > #1 > Console Output`

- This shows Maven downloading dependencies, compiling code, and creating the `.war` file:

Installing /var/lib/jenkins/workspace/Assignment02/target/mahaLogin-2.0.war
BUILD SUCCESS

Jenkins

Abdul Rehaman Shaik log out

Dashboard > Assigment02 > #1

Status

Changes

Console Output

Edit Build Information

Delete build '#1'

Timings

Git Build Data

✓ **#1 (Apr 24, 2025, 5:21:25 PM)**

Add description   Keep this build forever

Started by user Abdul Rehaman Shaik

Started 2 min 46 sec ago
Took 42 sec

This run spent:

- 61 ms waiting;
- 42 sec build duration;
- 42 sec total from scheduled to completion.

git **Revision**: bf62dde0c2aa013f2a25df61cc96ee12b647da6f
Repository: https://github.com/AbdulRehaman082493/mahalogin.git

- refs/remotes/origin/master

</> No changes.

REST API   Jenkins 2.492.3

Jenkins

Abdul Rehaman Shaik log out

Dashboard > Assigment02 > #1 > Git Build Data

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Revision: bf62dde0c2aa013f2a25df61cc96ee12b647da6f
Repository: https://github.com/AbdulRehaman082493/mahalogin.git

- refs/remotes/origin/master

Built Branches

- refs/remotes/origin/master: Build #1 of Revision bf62dde0c2aa013f2a25df61cc96ee12b647da6f (refs/remotes/origin/master)

REST API   Jenkins 2.492.3

🧾 STEP 7: Verify Build Summary

Location: `Assignment02 > #1`

- Shows:

    - Who triggered the build (You)

    - Build time and duration

    - Git branch: `refs/remotes/origin/master`

    - Commit ID used for the build

🧠 Summary

Section	Details
Source	GitHub - `master` branch
Build Tool	Maven (`clean install`)
Output	`.war` file in Jenkins workspace target directory
Status	✅ SUCCESS