

Exercise 2: Freestyle Job - Build and Deploy a JavaScript Project

1. Objective: Build and deploy a JavaScript-based web project.

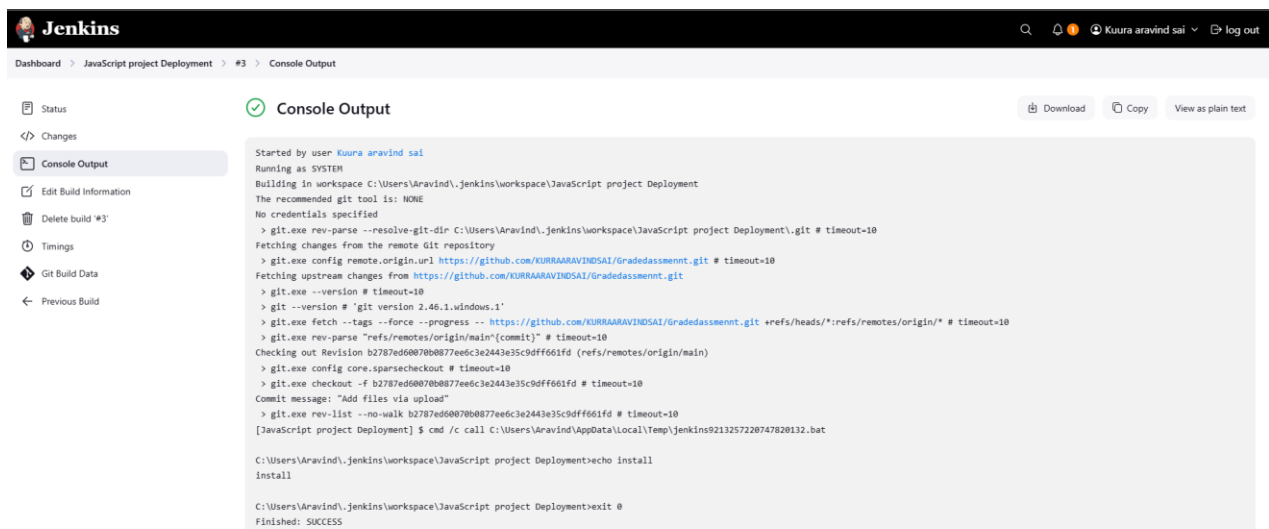
2. Steps:

o Create a Freestyle Job. o

Configure the job to:

- Clone a JavaScript repository (e.g., a React project) from GitHub.
- Run npm install to install dependencies.
- Build the project using npm run build.
- Copy the build folder to a deployment directory using a Windows batch command or PowerShell.
- o Archive the build artifacts for future reference.

3. Task: Verify the deployment by accessing the web application from the deployment directory.



The screenshot shows the Jenkins web interface. At the top, the Jenkins logo and name are visible. Below the header, the breadcrumb navigation shows 'Dashboard > JavaScript project Deployment > #3 > Console Output'. On the left sidebar, there are links for 'Status', 'Changes', 'Console Output' (which is selected), 'Edit Build Information', 'Delete build #3', 'Timings', 'Git Build Data', and 'Previous Build'. The main area displays the 'Console Output' for build #3, which is a Freestyle Job. The output text shows the build process starting with 'Started by user Kuura aravind sai' and 'Running as SYSTEM'. It details the workspace path, the recommended git tool (NONE), and the cloning of the repository 'https://github.com/KUURAAARAVINDSAI/Gradedassmennt.git'. The output includes the execution of 'git.exe rev-parse --resolve-git-dir', 'git.exe fetch', 'git.exe config remote.origin.url', 'git.exe rev-parse', 'git.exe checkout', 'git.exe config core.sparsecheckout', 'git.exe checkout', 'git.exe rev-list', and 'git.exe rev-parse'. The final command executed is 'cmd /c call C:\Users\Aravind\AppData\Local\Temp\jenkins9213257228747828132.bat', which runs 'echo install' and 'exit 0'. The build finishes with 'Finished: SUCCESS'.

```
Started by user Kuura aravind sai
Running as SYSTEM
Building in workspace C:\Users\Aravind\.jenkins\workspace\JavaScript project Deployment
The recommended git tool is: NONE
No credentials specified
> git.exe rev-parse --resolve-git-dir C:\Users\Aravind\.jenkins\workspace\JavaScript project Deployment\.git # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/KUURAAARAVINDSAI/Gradedassmennt.git # timeout=10
Fetching upstream changes from https://github.com/KUURAAARAVINDSAI/Gradedassmennt.git
> git.exe --version # timeout=10
> git --version # 'git version 2.46.1.windows.1'
> git.exe fetch --tags --force --progress -- https://github.com/KUURAAARAVINDSAI/Gradedassmennt.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe rev-parse "refs/remotes/origin/main"[commit]" # timeout=10
Checking out Revision b2787ed66070b0877ee6c3e2443e35c9d9ff661fd (refs/remotes/origin/main)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f b2787ed66070b0877ee6c3e2443e35c9d9ff661fd # timeout=10
Commit message: "Add files via upload"
> git.exe rev-list --no-walk b2787ed66070b0877ee6c3e2443e35c9d9ff661fd # timeout=10
[JavaScript project Deployment] $ cmd /c call C:\Users\Aravind\AppData\Local\Temp\jenkins9213257228747828132.bat

C:\Users\Aravind\.jenkins\workspace\JavaScript project Deployment>echo install
install

C:\Users\Aravind\.jenkins\workspace\JavaScript project Deployment>exit 0
Finished: SUCCESS
```