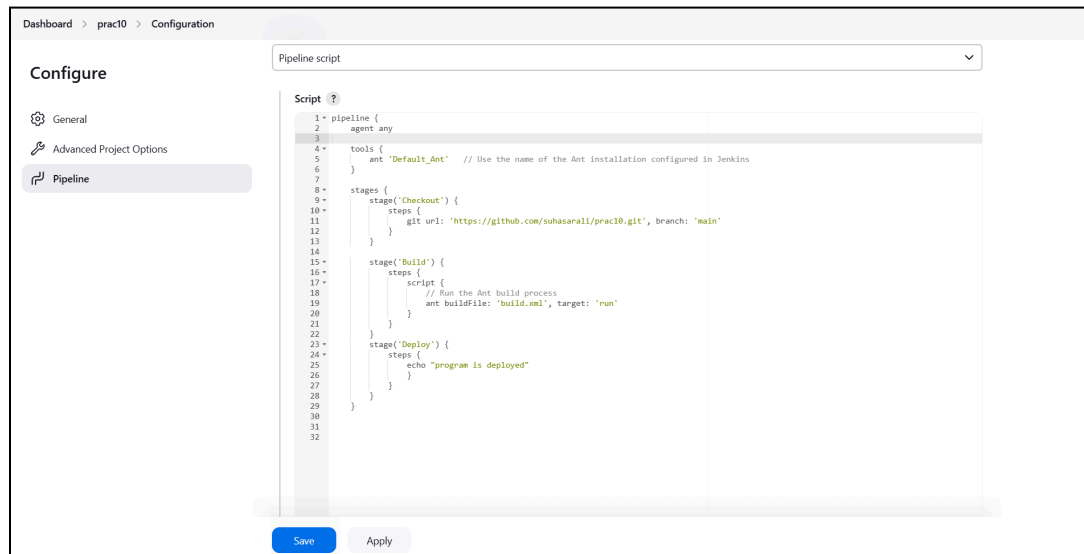
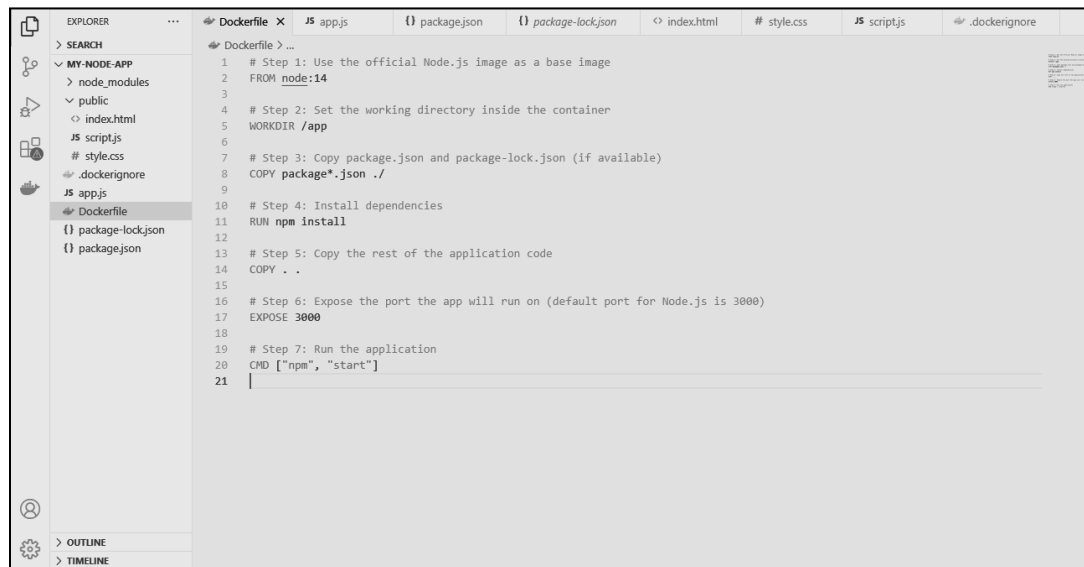


Code:

1) Jenkins



2) Docker



```
1 services:
2   frontend:
3     build: .
4     container_name: lost-and-found-portal # Use a fixed name for easier management
5     ports:
6       - "3000:80" # This is the crucial line
7     environment:
8       - VITE_SUPABASE_URL=${VITE_SUPABASE_URL}
9       - VITE_SUPABASE_ANON_KEY=${VITE_SUPABASE_ANON_KEY}
```

Output:
1)Jenkins

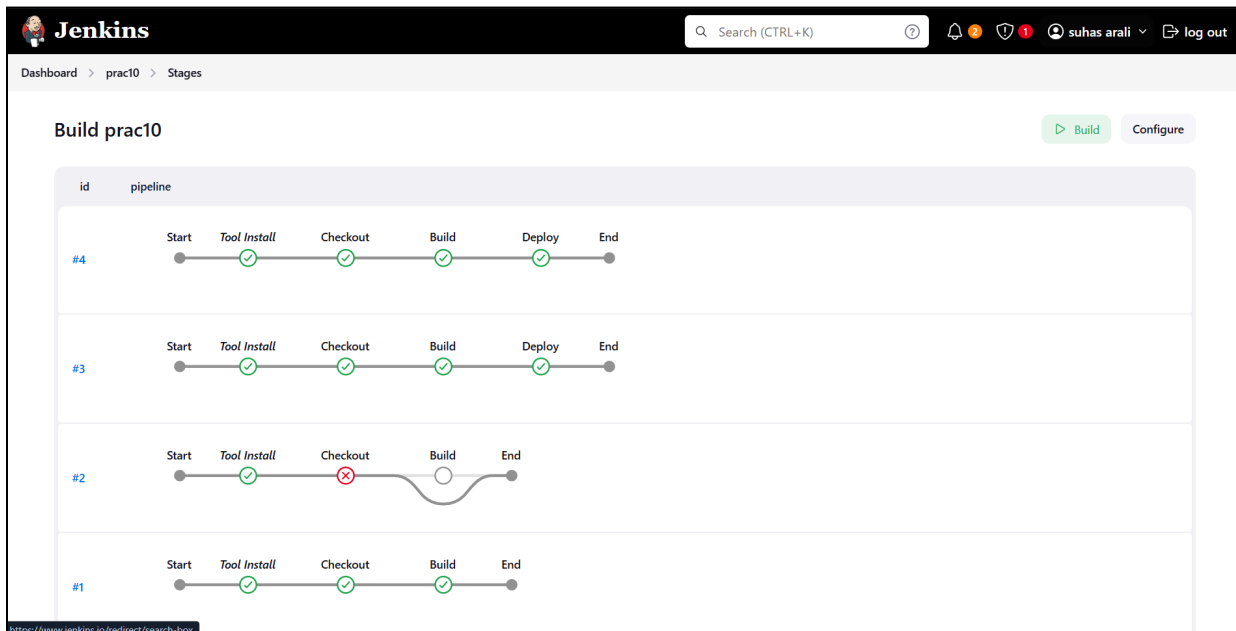


Fig 1.1 Automated Build stages

The screenshot shows the Jenkins 'Pipeline Console' for 'Build #4'. The build is successful, with a status of 'Success 11 mo ago in 4.7 sec'. The console output shows the following steps:

- Default_Ant**: Use a tool from a predefined Tool Installation. 40 ms.
- Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the wit...**: 46 ms.
- Git**: 2 sec.

The console output for the 'Git' step is as follows:

```
2 > git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\workspace\prac9\.git # timeout=10
3 Fetching changes from the remote Git repository
4 > git.exe config remote.origin.url https://github.com/suhasarali/prac10.git # timeout=10
5 Fetching upstream changes from https://github.com/suhasarali/prac10.git
6 > git.exe --version # timeout=10
7 > git --version # 'git version 2.46.0.windows.1'
8 > git.exe fetch --tags --force --progress -- https://github.com/suhasarali/prac10.git +refs/heads/*:refs/remotes/origin/* #
   timeout=10
9 > git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
10 Checking out Revision 4ed78182336142937554c5b7c935a7300ed59e5e (refs/remotes/origin/main)
11 > git.exe config core.sparsecheckout # timeout=10
12 > git.exe checkout -f 4ed78182336142937554c5b7c935a7300ed59e5e # timeout=10
```

Buttons for 'Rebuild', 'Overview', 'Configure', and '...' are visible at the top right. The Jenkins version is 2.462.3.

Fig 1.2 Pipeline Console

Jenkins																																									
Dashboard > pract0 > #4 > Pipeline Steps																																									
<div> <div>Status</div> <div>Changes</div> <div>Console Output</div> <div>Edit Build Information</div> <div>Delete build '#4'</div> <div>Timings</div> <div>Git Build Data</div> <div>Pipeline Overview</div> <div>Pipeline Console</div> <div>Restart from Stage</div> <div>Replay</div> <div>Pipeline Steps</div> <div>Workspaces</div> <div>Previous Build</div> <div>Next Build</div> </div>	<table> <thead> <tr> <th>Step</th><th>Arguments</th><th>Status</th></tr> </thead> <tbody> <tr> <td>Start of Pipeline - (4.1 sec in block)</td><td></td><td>✓</td></tr> <tr> <td>node - (3.3 sec in block)</td><td></td><td>✓</td></tr> <tr> <td>node block - (3.2 sec in block)</td><td></td><td>✓</td></tr> <tr> <td>stage - (0.2 sec in block)</td><td>Declarative: Tool Install</td><td>✓</td></tr> <tr> <td>stage block (Declarative: Tool Install) - (0.13 sec in block)</td><td></td><td>✓</td></tr> <tr> <td>tool - (43 ms in self)</td><td>Default_Ant</td><td>✓</td></tr> <tr> <td>envVarsForTool - (47 ms in self)</td><td></td><td>✓</td></tr> <tr> <td>withEnv - (2.9 sec in block)</td><td>ANT_HOME, PATH+ANT</td><td>✓</td></tr> <tr> <td>withEnv block - (2.8 sec in block)</td><td></td><td>✓</td></tr> <tr> <td>stage - (2.3 sec in block)</td><td>Checkout</td><td>✓</td></tr> <tr> <td>stage block (Checkout) - (2.2 sec in block)</td><td></td><td>✓</td></tr> <tr> <td>tool - (40 ms in self)</td><td>Default_Ant</td><td>✓</td></tr> </tbody> </table>	Step	Arguments	Status	Start of Pipeline - (4.1 sec in block)		✓	node - (3.3 sec in block)		✓	node block - (3.2 sec in block)		✓	stage - (0.2 sec in block)	Declarative: Tool Install	✓	stage block (Declarative: Tool Install) - (0.13 sec in block)		✓	tool - (43 ms in self)	Default_Ant	✓	envVarsForTool - (47 ms in self)		✓	withEnv - (2.9 sec in block)	ANT_HOME, PATH+ANT	✓	withEnv block - (2.8 sec in block)		✓	stage - (2.3 sec in block)	Checkout	✓	stage block (Checkout) - (2.2 sec in block)		✓	tool - (40 ms in self)	Default_Ant	✓	
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1.3 Pipeline Steps

2)Docker

lost-and-found-portal		2025/09/23 18:28:22 [notice] 1#1: start worker process 39
lost-and-found-portal		2025/09/23 18:28:22 [notice] 1#1: start worker process 40
lost-and-found-portal		2025/09/23 18:28:22 [notice] 1#1: start worker process 41
lost-and-found-portal		172.18.0.1 - - [23/Sep/2025:18:30:13 +0000] "GET / HTTP/1.1" 200 485 "-" "Mozilla/5.0 (windows NT 10.0; win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/140.0.0.0 Safari/537.36" "-"
lost-and-found-portal		172.18.0.1 - - [23/Sep/2025:18:30:13 +0000] "GET /assets/index-NdxDpj-.css HTTP/1.1" 200 22911 "http://localhost:3000/" "Mozilla/5.0 (windows NT 10.0; win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/140.0.0.0 Safari/537.36" "-"
lost-and-found-portal		172.18.0.1 - - [23/Sep/2025:18:30:13 +0000] "GET /assets/index-gc-EcxwM.js HTTP/1.1" 200 484964 "http://localhost:3000/" "Mozilla/5.0 (windows NT 10.0; win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/140.0.0.0 Safari/537.36" "-"
lost-and-found-portal		172.18.0.1 - - [23/Sep/2025:18:30:13 +0000] "GET /vite.svg HTTP/1.1" 404 555 "http://localhost:3000/" "Mozilla/5.0 (windows NT 10.0; win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/140.0.0.0 Safari/537.36" "-"
lost-and-found-portal		2025/09/23 18:30:13 [error] 31#31: *2 open() "/usr/share/nginx/html/vite.svg" failed (2: No such file or directory), client: 172.18.0.1, server: localhost, request: "GET /vite.svg HTTP/1.1", host: "localhost:3000", referer: "http://localhost:3000/"

Fig 2.1 Docker build command

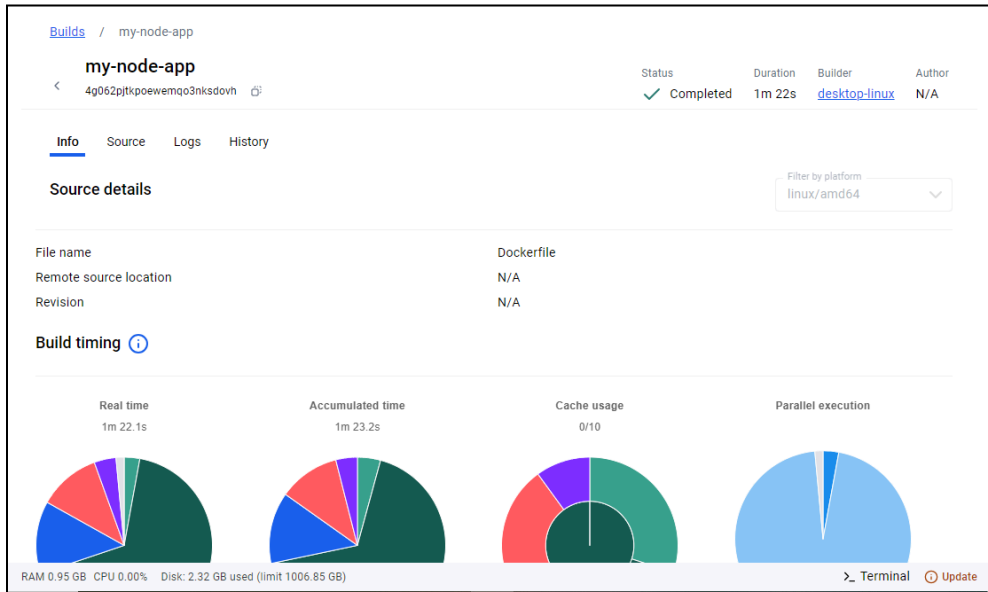


Fig 2.2 Docker Dashboard

3)Deployed Website

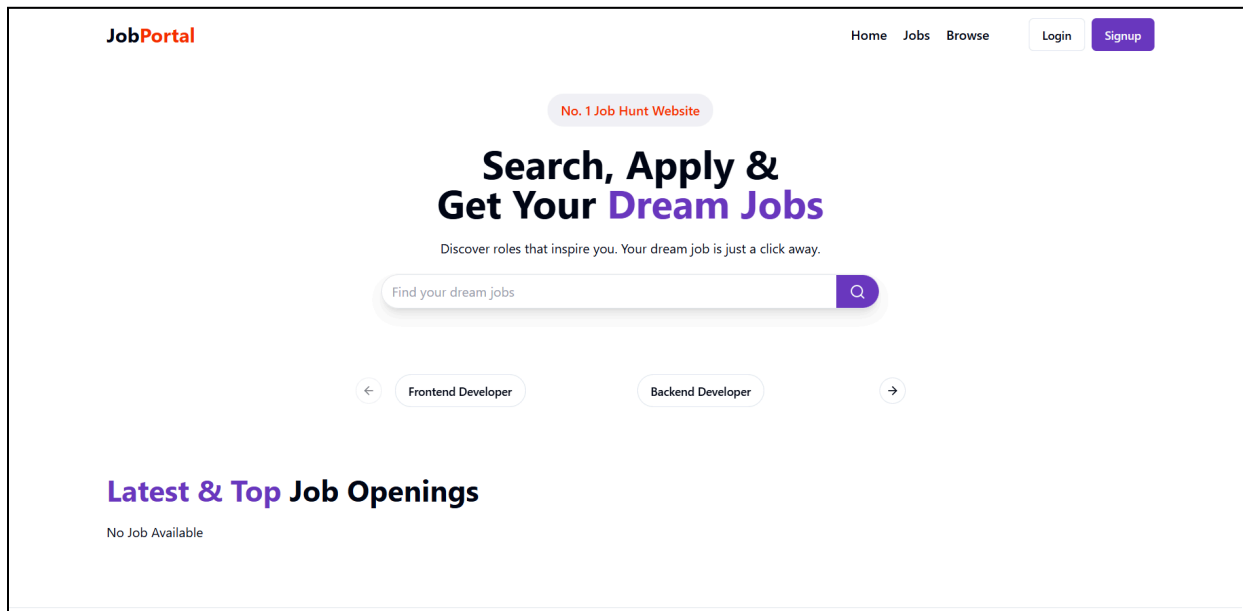


Fig 3 Mern Website