UNext CASE STUDY

Mriga Arora
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GITHUB LINK: [mrigaarora/UnextCaseStudy (github.com)](github.com)

1. Azure VM Creation

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Help me create a low cost VM   Help me create a VM optimized for high availability   Help me choose the right VM size for my workload

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Learn more ⬈

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ | RDBG |

Resource group * ⓘ | RDBG |
Create new

Instance details

Estimated monthly cost   ⬈

₹2,965.68 / month

View cost details

Help me create a low cost VM   Help me create a VM optimized for high availability   Help me choose the right V

Instance details

Virtual machine name * ⓘ | mrigavm   ✓ |

Region * ⓘ | (US) East US   ⌄ |

Availability options ⓘ | Availability zone   ⌄ |

Zone options ⓘ

◉ Self-selected zone
   Choose up to 3 availability zones, one VM per zone

○ Azure-selected zone (Preview)
   Let Azure assign the best zone for your needs

ⓘ Using an Azure-selected zone is not supported in region 'East US'.

Availability zone * ⓘ | Zone 1   ⌄ |

🚀 You can now select multiple zones. Selecting multiple zones will create one VM per zone. Learn more ⬈

Security type ⓘ | Standard   ⌄ |

Image * ⓘ | 🔴 Ubuntu Server 24.04 LTS - x64 Gen2   ⌄ |
See all images | Configure VM generation

🚀 This image is compatible with additional security features. Click here to swap to the Trusted launch security type.

VM architecture ⓘ

○ Arm64
◉ x64

Run with Azure Spot discount ⓘ   ☐

Size * ⓘ | Standard_B2s - 2 vcpus, 4 GiB memory (₹2,526.46/month)   ⌄ |
See all sizes

ⓘ Item(s) availability based on policy assignment(s) for the selected scope.

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○ Password

Username * ⓘ   vmuser

Password *   ••••••••••••

Confirm password * ⓘ   ••••••••••••

✓ Username must only contain letters, numbers, hyphens, and underscores and may not start with a hyphen or number.

✓ Usernames must not include reserved words.

✓ The value is in between 1 and 64 characters long.

View cost details

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ⓘ   ○ None

           ● Allow selected ports

Select inbound ports *   SSH (22)

Learn more about enabling this feature ⧉

OS disk

OS disk size ⓘ   Image default (30 GiB)

OS disk type * ⓘ   Premium SSD (locally-redundant storage)

Delete with VM ⓘ   ☑

Key management ⓘ   Platform-managed key

Enable Ultra Disk compatibility ⓘ   ☐

Data disks for mrigavm

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a

< Previous   Next : Networking >   Review + create

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Virtual network * ⓘ	(new) mrigavm-vnet ⌄
	Create new
Subnet * ⓘ	(new) default (10.10.0.0/24) ⌄
Public IP ⓘ	(new) mrigavm-ip ⌄
	Create new

NIC network security group ⓘ
- ◯ None
- ◉ Basic
- ◯ Advanced

Public inbound ports * ⓘ
- ◯ None
- ◉ Allow selected ports

Select inbound ports *   HTTP (80), HTTPS (443), SSH (22), RDP (3389) ⌄

[< Previous] [Next : Management >] **[Review + create]**

Delete public IP and NIC when VM is deleted ⓘ   ☑

Enable accelerated networking ⓘ   ☐   The selected VM size does not support accelerated networking.

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. Learn more ⧉

Load balancing options ⓘ
- ◉ None
- ◯ Azure load balancer
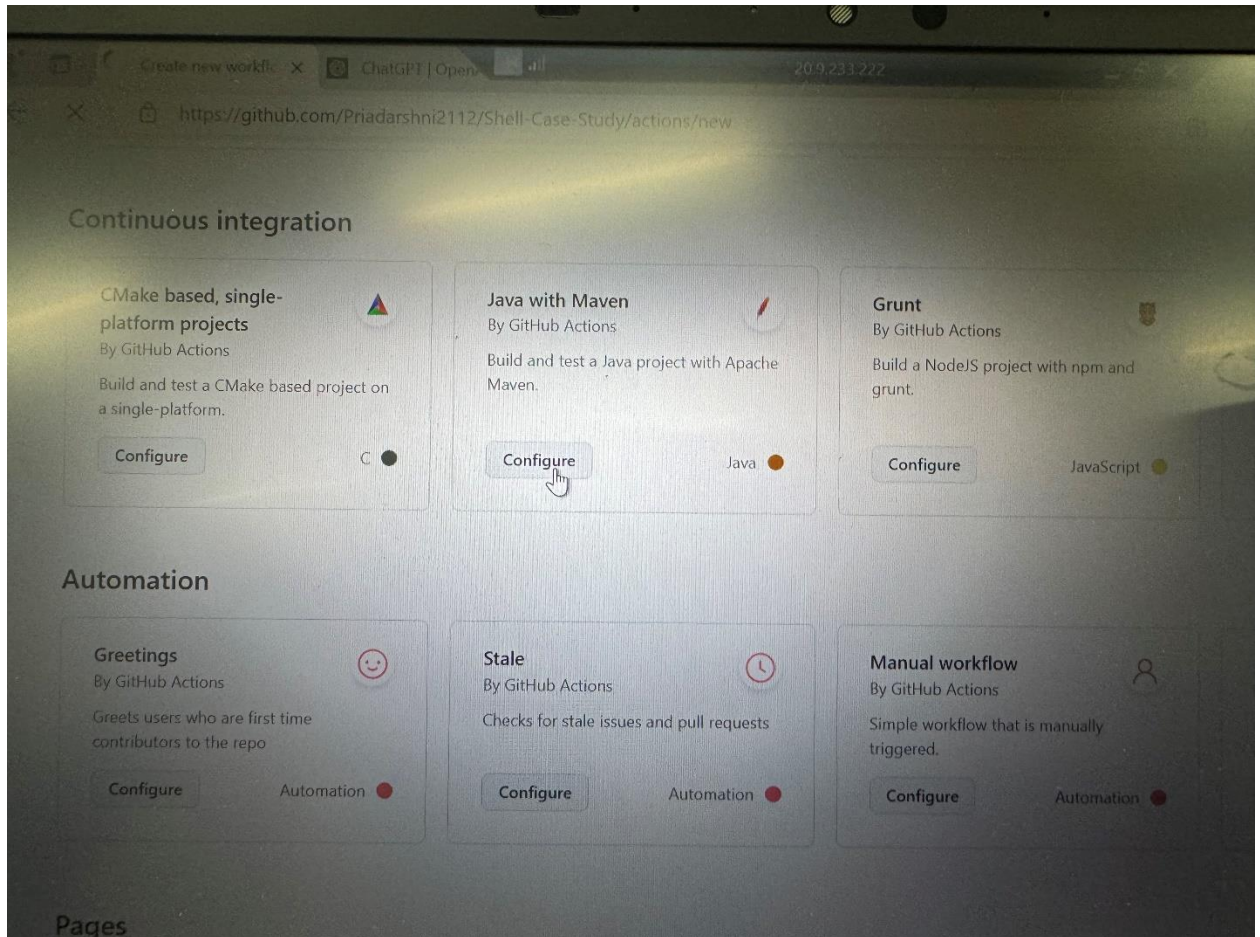 Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.
- ◯ Application gateway
  Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

After filling in and completing all the steps above, we click on Review+Create button, after successful validation, we click on create. After successful creation, then we click on Resource page, and download and get into the virtual machine
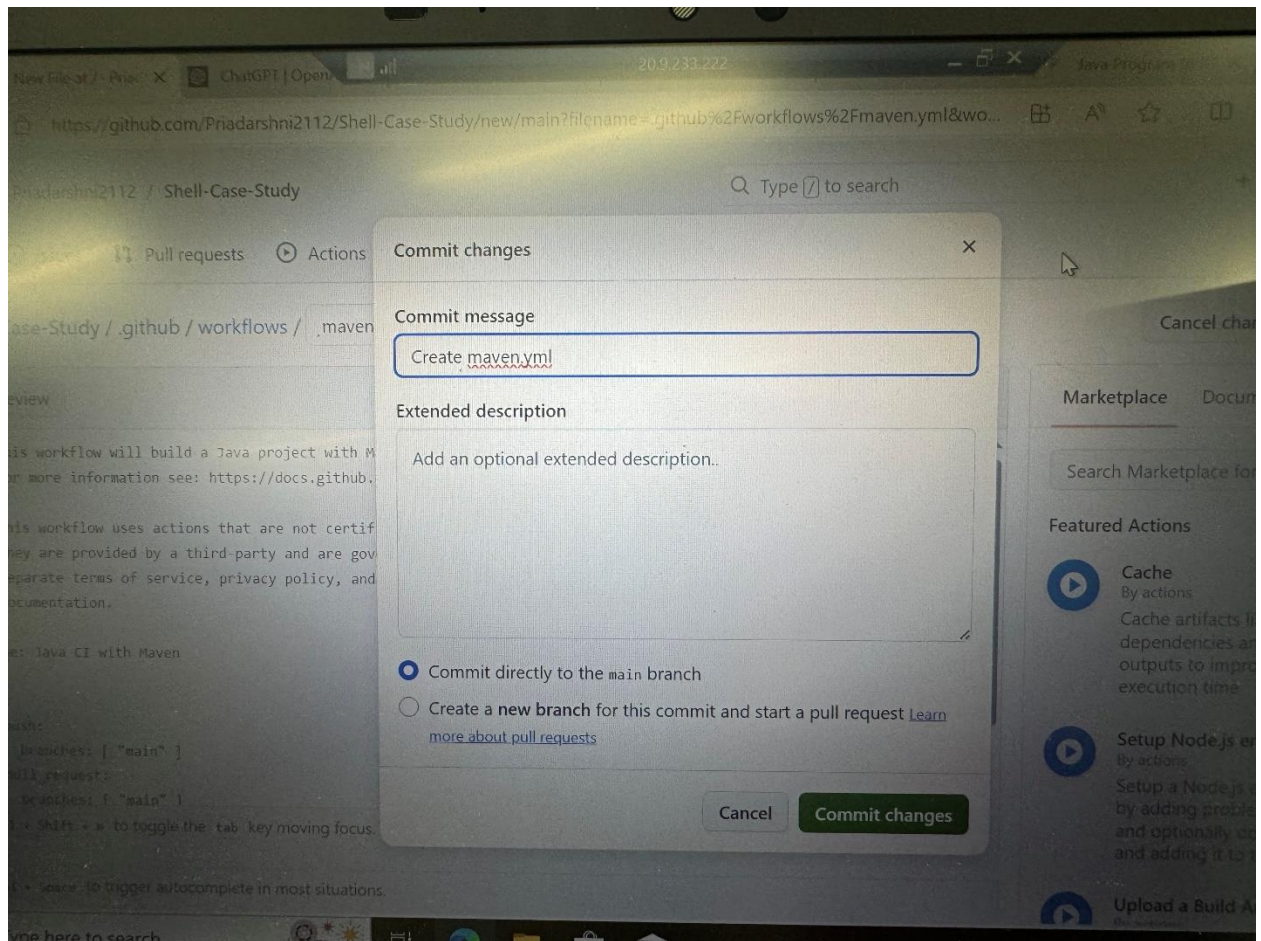
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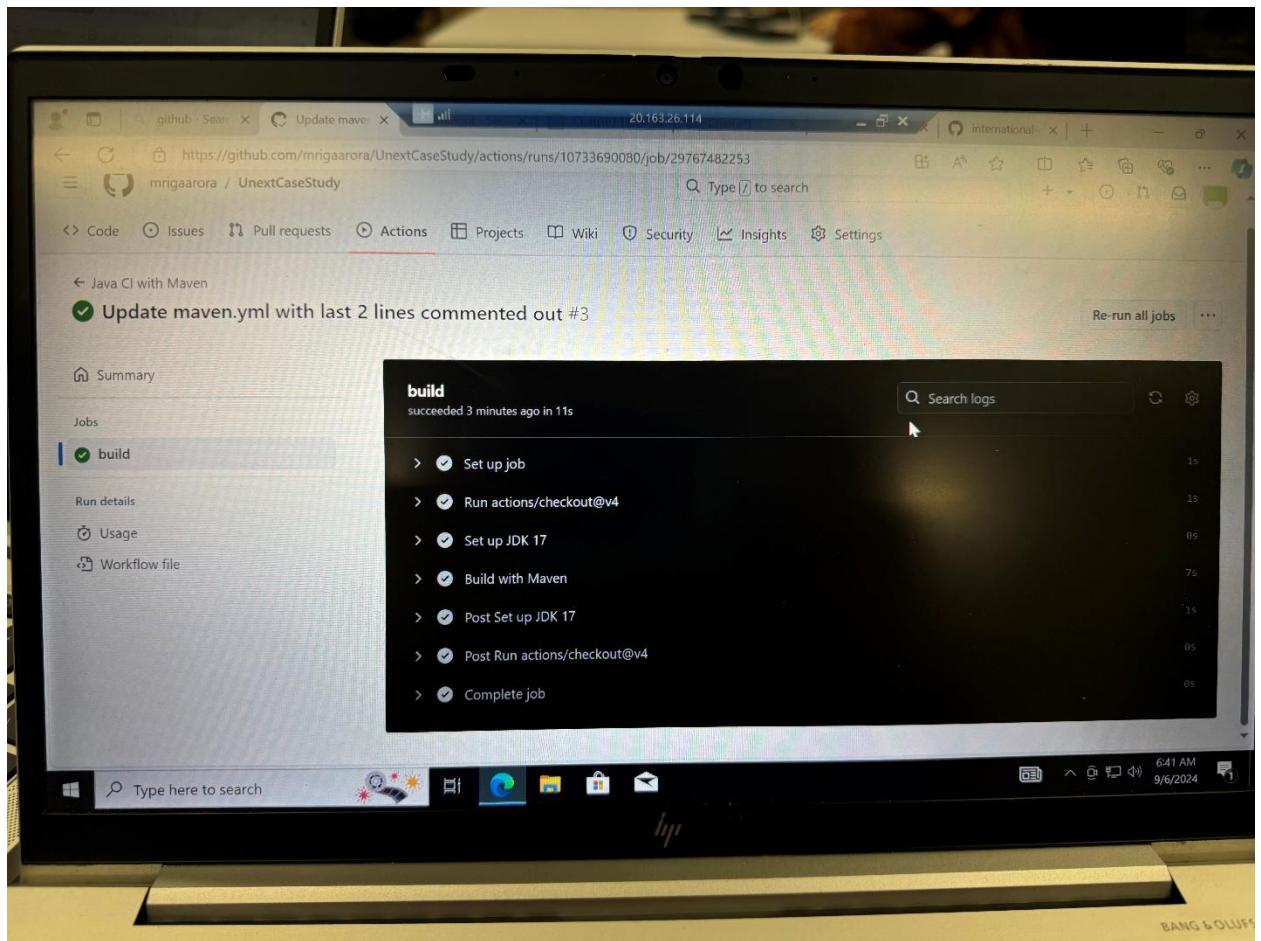INMASG

GITHUB ACTIONS AND VIRTUAL MACHINE

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```java
// Getter for conversionRate
public double getConversionRate() {
    return conversionRate;
}

// Setter for conversionRate
public void setConversionRate(double conversionRate) {
    this.conversionRate = conversionRate;
}

public static void main(String[] args) {
    // Create a Scanner object to read input
    Scanner scanner = new Scanner(System.in);

    // Prompt the user to enter the conversion rate
    System.out.print("Enter the CURRENT conversion rate from USD to INR: "); //CHANGE MADE HERE FOR BUILD AGAIN
    double rate = scanner.nextDouble();

    // Create a CurrencyConverter object with the provided rate
    CurrencyConverter converter = new CurrencyConverter(rate);

    // Prompt the user to enter the amount in USD
```
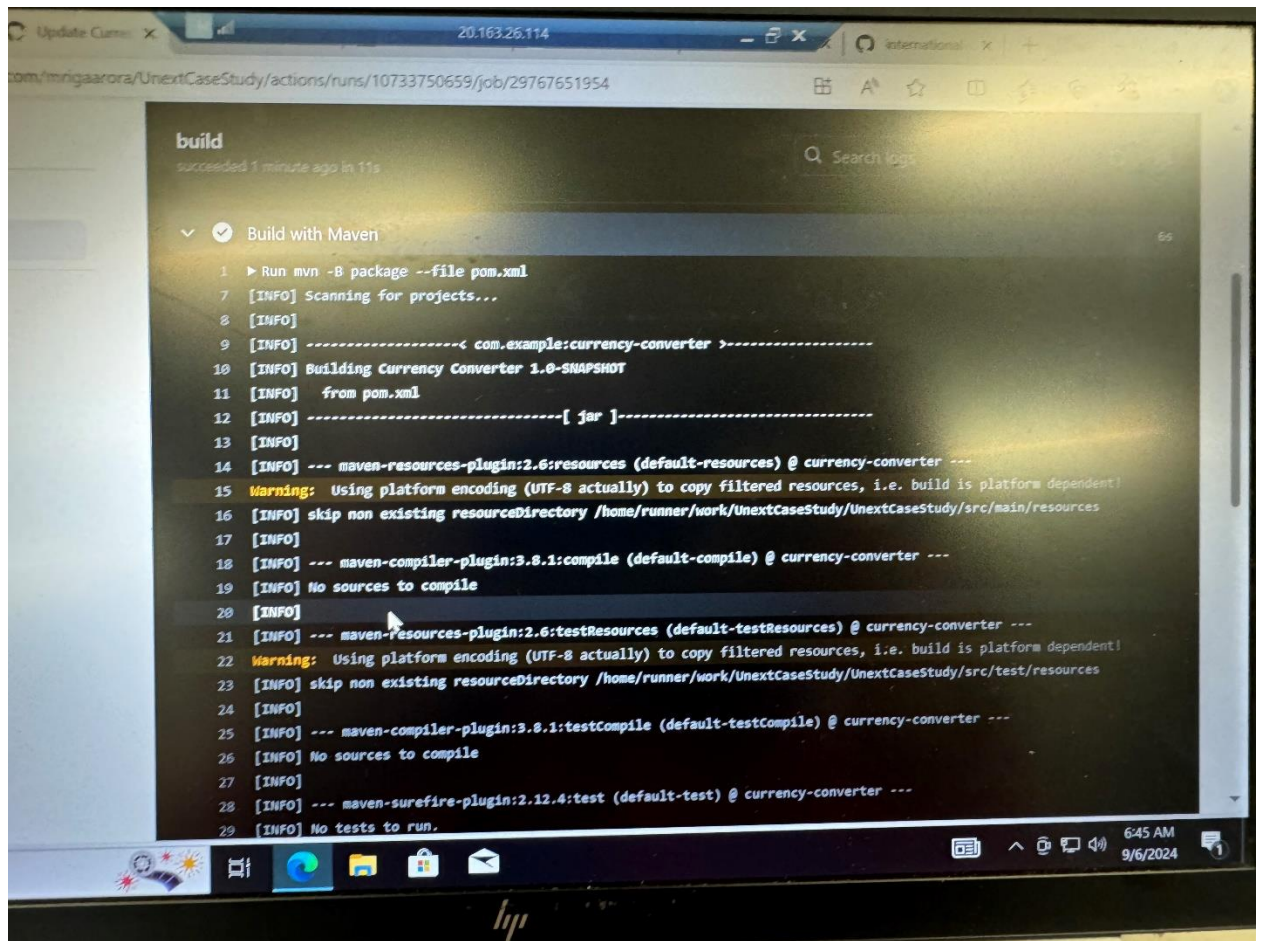
UNext CASE STUDY
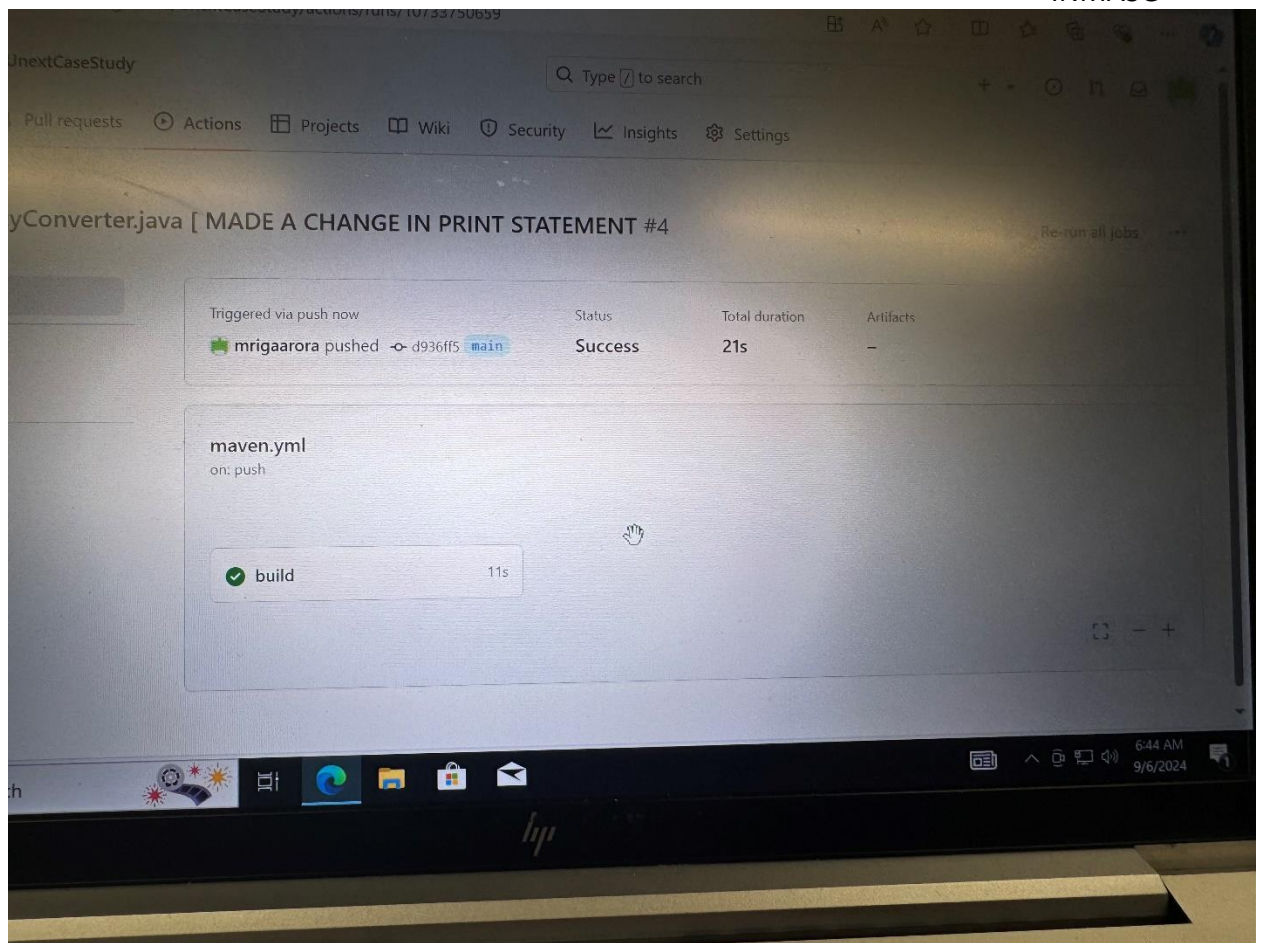
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The screenshot shows a browser window displaying a GitHub Actions build log:

```
build
succeeded 1 minute ago in 11s                                    Q Search logs

✓  Build with Maven                                                          6s

1    ▶ Run mvn -B package --file pom.xml
7    [INFO] Scanning for projects...
8    [INFO]
9    [INFO] -------------------< com.example:currency-converter >-------------------
10   [INFO] Building Currency Converter 1.0-SNAPSHOT
11   [INFO]   from pom.xml
12   [INFO] --------------------------------[ jar ]--------------------------------
13   [INFO]
14   [INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ currency-converter ---
15   Warning:  Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
16   [INFO] skip non existing resourceDirectory /home/runner/work/UnextCaseStudy/UnextCaseStudy/src/main/resources
17   [INFO]
18   [INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ currency-converter ---
19   [INFO] No sources to compile
20   [INFO]
21   [INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ currency-converter ---
22   Warning:  Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
23   [INFO] skip non existing resourceDirectory /home/runner/work/UnextCaseStudy/UnextCaseStudy/src/test/resources
24   [INFO]
25   [INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ currency-converter ---
26   [INFO] No sources to compile
27   [INFO]
28   [INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ currency-converter ---
29   [INFO] No tests to run.
```

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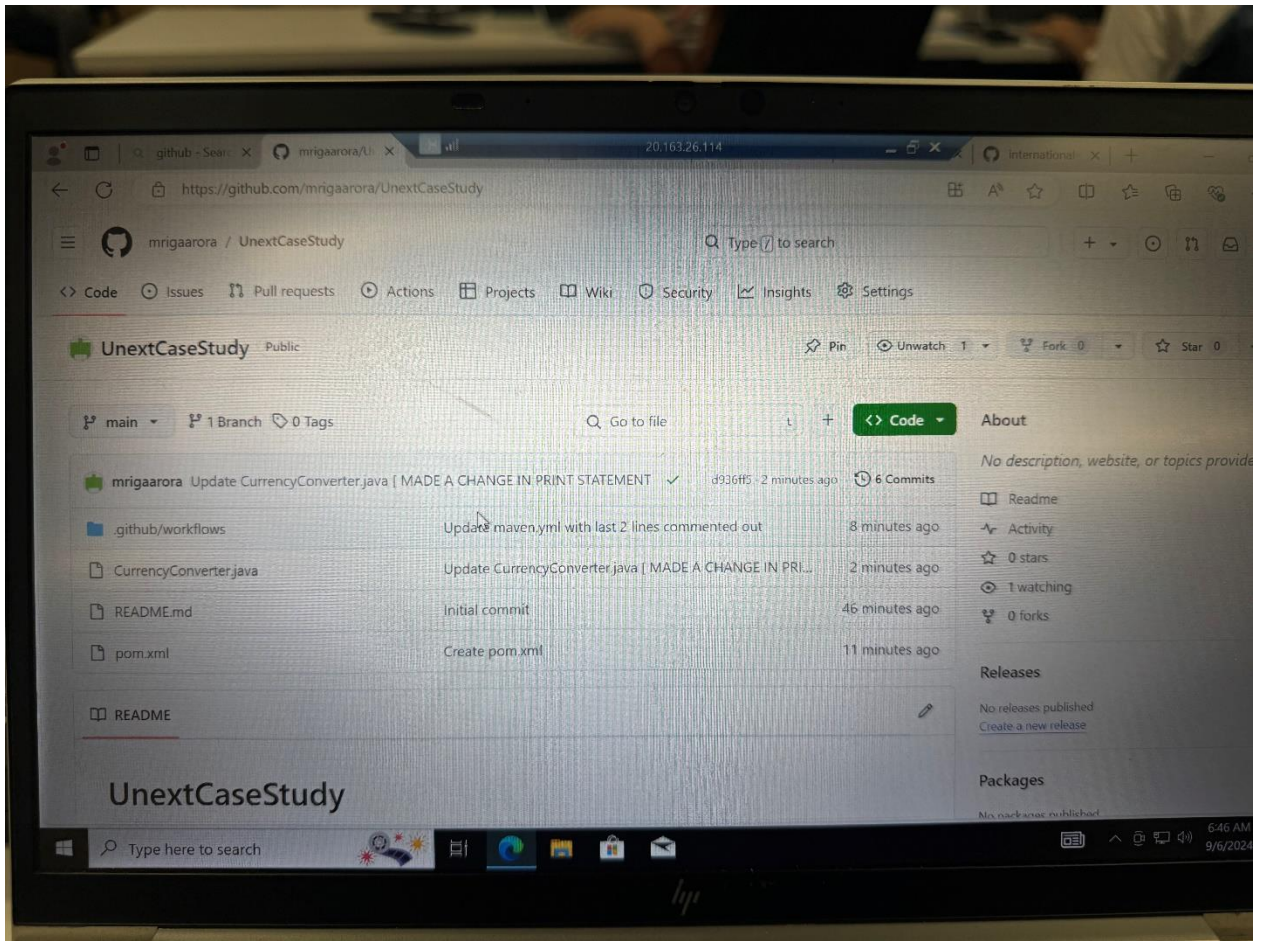
USER STORIES:

1. **User Criteria:** As a user, I want to use the sidebar navigation so that I can easily access different sections of the OrangeHRM system.

   Acceptance Criteria:

   1. The sidebar should be visible on the left side of the screen after logging in, displaying navigation links to various sections such as Search, Dashboard, Admin, PIN, Leave, Time, Recruitment, My info, Performance, Directory, Maintenance, Claim, Buzz
   2. Clicking on any navigation link in the sidebar should redirect the user to the corresponding section.
   3. The sidebar should highlight the current section the user is in when hovered over.
   4. The sidebar should have a collapse "<" icon that, when clicked, minimizes the sidebar to provide more screen space for the main content, displaying only the icons of Search, Dashboard, Admin, PIN, Leave, Time, Recruitment, my info, Performance, Directory, Maintenance, Claim and Buzz

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Estimate: 4

Priority: 3

2. **User Story:** As an employee, I want to use the Buzz page in OrangeHRM so that I can engage with my colleagues by posting updates, sharing achievements, and commenting on posts.

Acceptance Criteria:
1.Buzz Page Accessibility

The user should be able to access the Buzz page by clicking on the "Buzz" link in the sidebar. Upon clicking, the user should be redirected to the Buzz page.
2.Post an Update
The user should be able to type a message in the "What's on your mind?" text box.
The user should be able to upload photos and videos by clicking on "Share photos" or "Share videos
Clicking the "Post" button should add the message to the Buzz feed, making it visible to all employees.
3.Like a Post
The user should be able to click the "Heart" icon on any post to like a post.
The like count on the post should increment, and the post should indicate that the user has liked it.
4.Comment on a Post
The user should be able to click the "Comment" icon on any post to comment on it.
After typing a comment and clicking "Submit," the comment should be added to the post and visible to all employees.
5. Share a post
The user should be able to click "Share" icon to share it under their name.
5.View Post Details
The user should be able to click on any post to view its details.
The post details should include all comments, likes and shares.
6.Delete Own Post
The user should have the option to delete their own posts.
Clicking the "Delete" button on their post should remove it from the Buzz feed.
7.Edit Own Post
The user should have the option to edit their own posts.
5. Clicking the "Edit" button, making changes, and saving should update the post with the new content.
6. Notification for New Posts
7. Users should receive notifications when new posts are made on the Buzz page.
8. 8.Search Posts
9. The user should be able to search for posts using a keyword.

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10. The Buzz feed should display posts that match the keyword entered in the search bar.
11. 9.Filter Posts by likes, comments and date.
12. The user should be able to filter posts by likes, comments or most recent by clicking either "Most Liked Posts", "Most commented Posts", or "Most recent Posts" respectively. displayed on the top.
13. The Buzz feed should display posts made within the filter.

Estimate: 4
Priority: 2

3. User profile Dropdown menu

User story: As a user of OrangeHRM website, when I click on the profile button a dropdown menu should appear.

ACCEPTANCE CRITERIA:

- The profile button should display the user's avatar and name.
- When clicked the dropdown menu should appear with the following options – About, Support, Change Password, Logout
- Each sub option should be clickable and lead to respective functionality

Estimate: L

Priority: 1

4. User Story 1:
Title: User profile Dropdown menu

As a user of OrangeHRM website, when I click on the profile button a dropdown menu should appear.

ACCEPTANCE CRITERIA:

- The profile button should display the user's avatar and name.
- When clicked the dropdown menu should appear with the following options – About, Support, Change Password, Logout
- Each sub option should be clickable and lead to respective functionality

Estimate: L

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Priority: 1

5. LOGIN PAGE

As a user, I should be directed to the Login page upon clicking the application URL. In the Login page, the username and password fields should be available to enter my credentials. A login button should be present to submit the credentials and a 'forgot your password' link should be enabled.

USER ACCEPTANCE CRITERIA: Both the username and password fields should be editable, and the login button should be clickable. The 'forgot password' link should be clickable to reset the password.

Estimation: 2
priority: 1

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Azure DevOps mrigaarora02 / CaseStudy1 / Boards / Backlogs

CaseStudy1

| Overview |
| Boards |
| Work items |
| Boards |
| Backlogs |
| Sprints |
| Queries |
| Delivery Plans |
| Analytics views |
| Repos |
| Project settings |

CaseStudy1 Team

Backlog Analytics + New Work Item View as Board Column Options ... Issues

Order	ID	Title	Assigned To	State	Tags
1	11	Login Page	Mriga Arora	Doing	
2	6	Sidebar Navigation	Mriga Arora	To Do	
3	7	User Profile Dropdown Menu		To Do	
4	13	Employee Directory Search Functionality		To Do	
5	8	Dashboard		To Do	
6	9	Accessing Help Resources from Home Page		To Do	
7	10	Accessing Admin User Management from Dashboard		To Do	
8	12	Accessing the Buzz Page for Employee Engagement	Mriga Arora	To Do	
9	14	Maintenance Option Requiring Administrator Access		To Do	

ISSUE 12

12 Accessing the Buzz Page for Employee Engagement

MA Mriga Arora   0 comments   Add tag   Save & Close   Follow

| State | ● To Do | Area | CaseStudy1 | Updated by Mriga Arora: 2h ago |
| Reason | Added to backl... | Iteration | CaseStudy1\Sprint 1 | Details |

Description

User Story: As an employee, I want to use the Buzz page in OrangeHRM so that I can engage with my colleagues by posting updates, sharing achievements, and commenting on posts.

Acceptance Criteria:
1.Buzz Page Accessibility
The user should be able to access the Buzz page by clicking on the "Buzz" link in the sidebar.
Upon clicking, the user should be redirected to the Buzz page.
2.Post an Update
The user should be able to type a message in the "What's on your mind?" text box.

Planning

Priority
4

Effort
6

Deployment

To track releases associated with this work item, go to Releases and turn on deployment status reporting for Boards in your pipeline's Options menu. Learn more about deployment status reporting

Development

+ Add link

Link an Azure Repos commit, pull

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