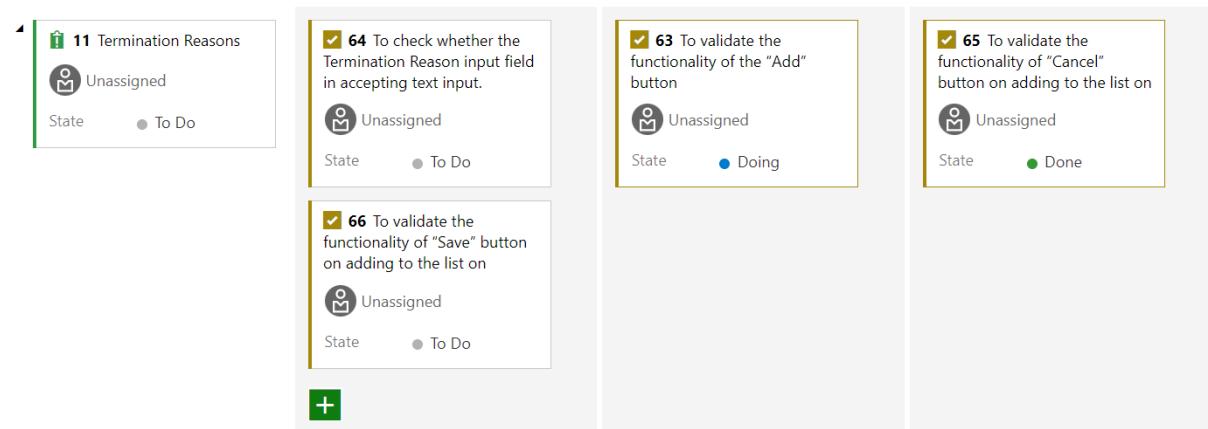


NAMAN JAIN

Github Link: [Naman2406 \(github.com\)](https://github.com/Naman2406)

USER STORIES and AGILE



USER_STORY 1: TERMINATION REASONS

As a user when I go to “Termination Reasons” under “configuration” toggle under “PIM” tab then I should be able to add, edit and delete the termination terms of any employee.

Acceptance Criteria: When valid credentials are entered and select “Termination Reasons” page then:

- User should be able to add “Termination Reason” to the list.
- User should be able to edit the “Termination Reason” record of the employee.
- User should be able to delete the “Termination Reason” record of any employee.

Priority: 1

Effort: 4

The screenshot shows a Jira issue page for a task titled "Termination Reasons". The task is in the "To Do" state, assigned to "Unassigned", and has 0 comments. The area is "Orange HRM Case study" and the iteration is also "Orange HRM Case study". The task description states: "As a user when I go to ‘Termination Reasons’ under ‘configuration’ toggle under ‘PIM’ tab then I should be able to add, edit and delete the termination terms of any employee." The acceptance criteria are: "When valid credentials are entered and select ‘Termination Reasons’ page then: User should be able to add ‘Termination Reason’ to the list. User should be able to edit the ‘Termination Reason’ record of the employee. User should be able to delete the ‘Termination Reason’ record of any employee." The planning section shows a priority of 1 and effort of 4. The deployment and development sections are currently empty.

TC_001

Description: To validate the functionality of the “Add” button

Given the user is logged in to the website “<https://opensource-demo.orangehrmlive.com/web/index.php/auth/login>” in chrome web browser using the valid username “Admin” and valid password “admin123” and he is in the “Termination Reasons” tab under “Configuration” dropdown in “PIM” tab.

When the user clicks on the “Add” button

Then the user should be redirected to the page (<https://opensource-demo.orangehrmlive.com/web/index.php/pim/saveTerminationReasons>) which asks the user to type in the termination reason.

Bug Report

Description: The field ask for Name on termination reason page instead of reason which may create a confusion

Steps to reproduce:

- Open chrome browser
- Open the site <https://opensource-demo.orangehrmlive.com/web/index.php/auth/login>
- Login using username: ‘Admin’ and password: admin123

- From the list select ‘PIM’ then go to ‘Configuration’ then go to ‘Termination Reason’ and click on ‘Add’ button. The input field is showing to input ‘Name’ instead it should ask to enter the ‘Reason’

Time Stamp: 06/09/2024 10:55 AM

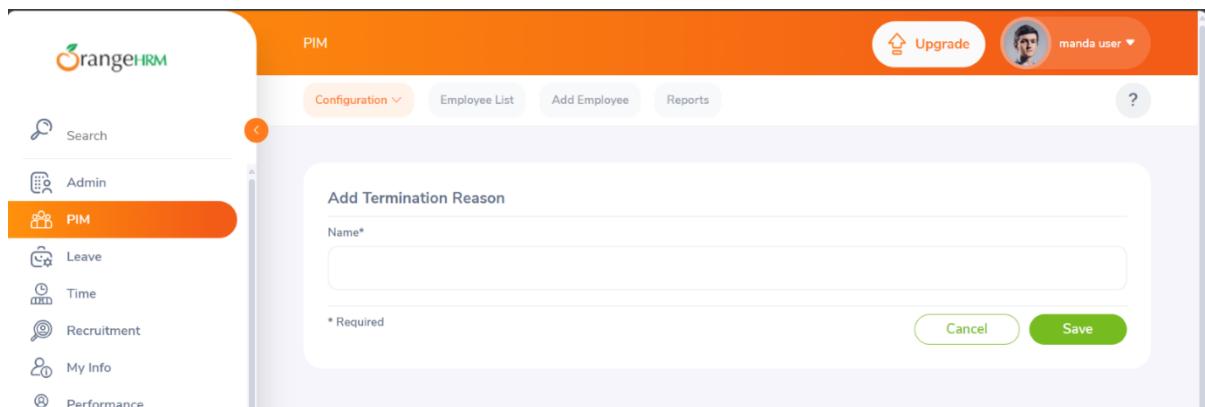
Severity: Low

Priority: Minor

Assignee: problem_dev

Expected Result: The user should be asked to enter Reason instead of Name.

Screenshot or recording:



TC_002

Description: To check whether the Termination Reason input field in accepting text input.

Given the user is logged in to the website “<https://opensource-demo.orangehrmlive.com/web/index.php/auth/login>” in chrome web browser using the valid username “Admin” and valid password “admin123” and in the “Add” page in “Termination Reasons” tab under “Configuration” dropdown in “PIM” tab.

When the user clicks in the text field

Then the text field should accept user input

TC_003

Description: To validate the functionality of “Cancel” button on adding to the list on “Termination Reasons”.

Given the user is logged in to the website “<https://opensource-demo.orangehrmlive.com/web/index.php/auth/login>” in chrome web browser using the valid username “Admin” and valid password “admin123” and in the “Add” page in “Termination Reasons” tab under “Configuration” dropdown in “PIM” tab.

When the user clicks on the “Cancel” button

Then the user should be redirected to the previous page (<https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewTerminationReasons>)

TC_004

Description: To validate the functionality of “Save” button on adding to the list on “Termination Reasons”.

Given the user is logged in to the website “<https://opensource-demo.orangehrmlive.com/web/index.php/auth/login>” in chrome web browser using the valid username “Admin” and valid password “admin123” and in the “Add” page in “Termination Reasons” tab under “Configuration” dropdown in “PIM” tab.

When the user clicks on the “Save” button after adding the valid input

Then the inputshould be added to the list and the user should be redirected to (<https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewTerminationReasons>)

Bug Report (Flaky Bug)

Description: The ‘Add’ button is not working few times

Steps to reproduce:

- Open chrome browser
- Open the site <https://opensource-demo.orangehrmlive.com/web/index.php/auth/login>
- Login using username: ‘Admin’ and password: admin123
- From the list select ‘PIM’ then go to ‘Configuration’ then go to ‘Termination Reason’ and click on ‘Add’ button. After entering the reason when the user clicks on save then a few times the data is not added to the list.

Time Stamp: 06/09/2024 11:55 AM

Severity: Low

Priority: Minor

Assignee: problem_dev

Expected Result: The input by user should be added to the list all the times.

TC_005

Description: To validate the functionality of checkbox in the ‘Termination Reasons’ List

Given the user is logged in to the website “[https://opensource-d демо.orangehrmlive.com/web/index.php/auth/login](https://opensource-demo.orangehrmlive.com/web/index.php/auth/login)” in chrome web browser using the valid username “Admin” and valid password “admin123” and in the “Add” page in “Termination Reasons” tab under “Configuration” dropdown in “PIM” tab.

When the user clicks on the checkbox of the termination reason in the list

Then the user should be able to select that specific item from the list on which further functions can be performed that is deletion and updation.

User Story 2: Reporting Method Functionality

As a user, when I go to PIM tab, select Configuration and click on Reporting Methods, I should be redirected to a page where I can add new reporting methods, delete and edit existing reporting methods

ACCEPTANCE CRITERIA: When user clicks on Reporting Methods:

- Should be redirected to view reporting methods page
- Should be able to new reporting methods
- Should be able to edit and delete existing reporting methods

Priority: 4

Effort: 5

The screenshot shows a Jira issue page for a task titled "Reporting methods". The page includes fields for State (To Do), Reason (Added to back...), Area (Orange HRM Case study), and Iteration (Orange HRM Case study). The "Details" tab is selected, showing the description: "As a user, when I go to PIM tab, select Configuration and click on Reporting Methods, I should be redirected to a page where I can add new reporting methods, delete and edit existing reporting methods". The planning section shows Priority 3 and Effort 5. Other tabs visible include "Deployment" and "Development".

TC_001

Description: To validate if the user is redirected to Reporting Methods page

Given the user is logged in to the website [OrangeHRM \(orangehrmlive.com\)](https://opensource-demo.orangehrmlive.com) using the valid username “Admin” and valid password “admin123”

When user clicks on PIM tab -> Configuration Drop down -> Reporting Methods

Then user should be navigated to Reporting Methods page <https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewReportingMethods>

S. No.	Page Name	Page accessibility (Pass/Fail)	
		Actual	Expected
1	Reporting Methods	Pass	Pass

TC_002

Description: To validate if the user is redirected to save reporting method page

Given the user is on the Reporting Methods page <https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewReportingMethods>

And user clicks on the Add button

Then the user should be redirected to Save reporting method page <https://opensource-demo.orangehrmlive.com/web/index.php/pim/saveReportingMethod>

S. No.	Page Name	Page accessibility (Pass/Fail)	
		Actual	Expected
1	Save Reporting Method	Pass	Pass

TC_003

Description: To validate if the user is able to add a new reporting method

Given the user is on the Save reporting method page <https://opensource-demo.orangehrmlive.com/web/index.php/pim/saveReportingMethod>

When user writes a new reporting method in the Name field

And clicks on the Save button

Then the new reporting method should get added the reporting methods list

S. No.	New reporting method	New reporting method getting added (Pass/Fail)	
		Actual	Expected
1	Test Report	Pass	Pass

TC_004

Description: To validate if the user is able to delete an existing reporting method

Given the user is on the Reporting Methods page <https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewReportingMethods>

When the user clicks on the delete icon of any reporting method except Direct (as it is always in use)

And clicks on the Yes, Delete button

Then that reporting method should be deleted from the reporting methods

S. No.	Reporting method	Reporting method getting deleted (Pass/Fail)	
		Actual	Expected
1	Indirect	Pass	Pass
2	Test Report	Pass	Pass

TC_005

Description: To validate if the user is able to edit an existing reporting method

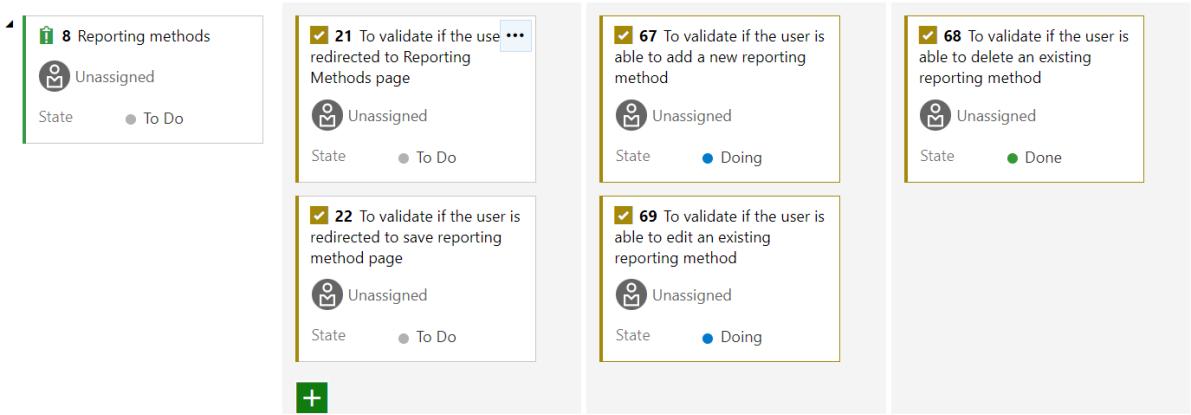
Given the user is on the Reporting Methods page <https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewReportingMethods>

When the user clicks on the edit icon of any reporting method

And writes the new name of that reporting method and clicks on Save button

Then that reporting method's name should be edited

S. No.	Reporting method	Reporting method getting deleted (Pass/Fail)	
		Actual	Expected
1	Direct	Pass	Pass
2	Indirect	Pass	Pass
3	Test Report	Pass	Pass



User story 3: Admin Dashboard Functionality

As a System Administrator, I want to access a comprehensive dashboard, so that I can:
Monitor and manage key HR metrics and activities efficiently

Acceptance Criteria:

- Dashboard Access:** Given that I am logged in as an admin, when I navigate to the dashboard, then I should see a summary of key HR metrics and activities.
- Key Metrics Display:** Given that I am on the dashboard, when the page loads, then I should see widgets displaying metrics such as employee count, leave requests, attendance records, and upcoming events.
- Interactive Widgets:** given that I am viewing the dashboard, when I click on a widget, then I should be redirected to a detailed view of the respective metric (e.g., clicking on leave requests should take me to the leave management page).

Priority: 2

Effort: 6

ISSUE 23*

23 Admin Dashboard functionality

Unassigned

0 comments Add tag

Save & Close Follow Details

Updated by Aranya Khatawate: Just now

Description

As a System Administrator, I want to access a comprehensive dashboard, so that I can: Monitor and manage key HR metrics and activities efficiently

Acceptance Criteria:

- Dashboard Access:** Given that I am logged in as an admin, when I navigate to the dashboard, then I should see a summary of key HR metrics and activities.
- Key Metrics Display:** Given that I am on the dashboard, when the page loads, then I should see widgets displaying metrics such as employee count, leave requests, attendance records, and upcoming events.
- Interactive Widgets:** given that I am viewing the dashboard, when I click on a widget, then I should be redirected to a detailed view of the respective metric (e.g., clicking on leave requests should take me to the leave management page).

Planning

Priority 2

Effort 6

Deployment

Add link

Link an Azure Repos [commit](#), [pull request](#), or [branch](#) to see the status of your development. You can also [create a branch](#) to get started.

Development

Related Work

Add link

Add an existing work item as a parent

Test cases

TC_001

Description: To validate if the admin can access the dashboard.

Given the admin is logged in to the website [OrangeHRM \(orangehrmlive.com\)](https://opensource-demo.orangehrmlive.com) using the valid username “Admin” and valid password “admin123”.

When the admin clicks on the “Dashboard” tab.

Then the admin should be navigated to the dashboard page displaying key HR metrics and activities.

URL: <https://opensource-demo.orangehrmlive.com/web/index.php/dashboard/index>

S. No.	Username	Password	Page accessibility (Pass/Fail)	
			Actual	Expected
1	Admin	admin123	Pass	Pass

TC_002

Description: To validate if key HR metrics are displayed on the dashboard.

Given the admin is logged in to the website [OrangeHRM \(orangehrmlive.com\)](https://opensource-demo.orangehrmlive.com) using the valid username “Admin” and valid password “admin123”.

When the admin navigates to the dashboard page.

Then the dashboard should display widgets for Time at work, Quick Launch, Buzz latest posts, My actions, Employees on leave today, Employee Distribution by Sub Unit, Employee Distribution by Location

URL: <https://opensource-demo.orangehrmlive.com/web/index.php/dashboard>

S. No.	Dashboard Widget	Widget Displaying (Pass/Fail)	
		Actual	Expected
1	Time at work	Pass	Pass
2	Quick Launch	Pass	Pass
3	Buzz latest posts	Pass	Pass
4	My actions	Pass	Pass
5	Employees on leave today	Pass	Pass
6	Employee Distribution by Sub Unit	Pass	Pass

7	Employee Distribution by location	Pass	Pass
---	-----------------------------------	------	------

TC_003

Description: To validate if clicking on the time at work widget redirects to the detailed view of the respective metric.

Given the admin is logged in to the website [OrangeHRM \(orangehrmlive.com\)](https://orangehrmlive.com) using the valid username “Admin” and valid password “admin123”.

When the admin clicks on the “Time at work” widget clock icon on the dashboard.

Then the admin should be redirected to the “Punch In” page

URL: <https://opensource-demo.orangehrmlive.com/web/index.php/attendance/punchIn>

S. No.	Dashboard Widget	Clicking on clock icon redirects (Pass/Fail)	
		Actual	Expected
1	Time at work	Pass	Pass

TC_004

Description: To validate if clicking on the Employees on leave today setting icon widget pops up a sub menu

Given the admin is logged in to the website [OrangeHRM \(orangehrmlive.com\)](https://orangehrmlive.com) using the valid username “Admin” and valid password “admin123”.

When the admin clicks on the setting icon of the Employees on leave today widget

Then a pop up should appear

S. No.	Dashboard Widget	Clicking on settings icon pops up a sub menu(Pass/Fail)	
		Actual	Expected
1	Employees on leave today	Pass	Pass

TC_005

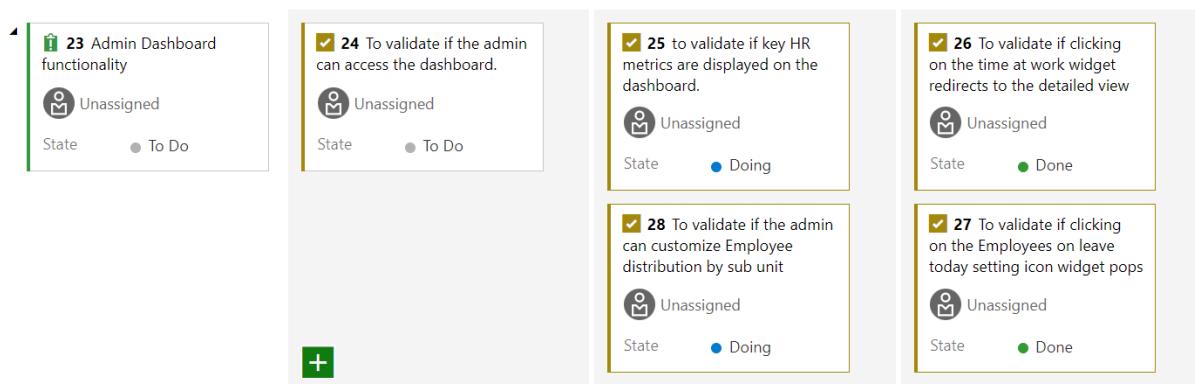
Description: To validate if the admin can customize Employee distribution by sub unit widget

Given the admin is logged in to the website [OrangeHRM \(orangehrmlive.com\)](https://orangehrmlive.com) using the valid username “Admin” and valid password “admin123”.

When the admin chooses to customize the dashboard layout of the Employee distribution by sub unit by clicking on the labels below the pie chart

Then the dashboard layout should be customizable according to the admin’s preferences.

S. No.	Dashboard Widget	Clicking on labels modifies the pie chart(Pass/Fail)	
		Actual	Expected
1	Employee distribution by sub unit	Pass	Pass



USER STORY 4: Login Page

As a user when I enter valid username and password and click on the Login button, then the system should allow me to access the home page.

Acceptance Criteria: When valid credentials are entered, the system should

- Allow the user to access the home page.
- Username should be of 5-20 characters.
- Password should contain alphanumeric values with at least 1 digit and 1 small case.

Priority: 1

Effort: 3

The screenshot shows a Jira issue page for a task titled "Login Page". The page includes fields for State (To Do), Area (Orange HRM Case study), Reason (Added to back...), Iteration (Orange HRM Case study), and various buttons like Save, Details, and attachments.

Description:

As a user when I enter valid username and password and click on the Login button, then the system should allow me to access the home page.

Acceptance Criteria: When valid credentials are entered, the system should

- Allow the user to access the home page.
- Username should be of 5-20 characters.
- Password should contain alphanumeric values with at least 1 digit and 1 small case.

Planning:

Priority: 1
Effort: 3

Deployment:

Development:

[+ Add link](#)

TC_001: To test the login functionality of login page using valid credentials

Given the user can access the application [OrangeHRM \(orangehrmlive.com\)](#) in chrome browser

When user enters valid "username" and valid "password"

And user clicks on login button

Then the user should be redirected to the [Dashboard](#)

S. No.	Username	Password	Able to login?	Expected Outcome
1	Admin	admin123	Yes	Yes

TC_002: To test if username field is editable and if the user can enter text

Given the user can access the application [OrangeHRM \(orangehrmlive.com\)](#) in chrome browser

When user clicks on the “username” field

Then the user should be able to enter the “username”.

S. No.	Username
1	Admin
2	Admin123

TC_003: To test if password field is editable and if the user can enter text

Given the user can access the application [OrangeHRM \(orangehrmlive.com\)](#) in chrome browser

When user clicks on the “password” field

Then the user should be able to enter the “password”.

S. No.	Password
1	admin123

TC_004: To test if a relevant message is displayed when invalid credentials are entered.

Given the user can access the application [OrangeHRM \(orangehrmlive.com\)](https://orangehrmlive.com) in chrome browser

When user enters invalid "username" or invalid "password"

And user clicks on login button

Then the user should get a message stating “Invalid credentials” above the username field.

S. No.	Username	Password
1	Admin	admin123

TC_005: To test the login functionality with an empty username or empty password.

Given the user can access the application [OrangeHRM \(orangehrmlive.com\)](https://orangehrmlive.com) in chrome browser

When user enters empty "username" or empty "password"

And user clicks on login button

Then the user should get a message stating “Required” below the respective empty field.

S. No.	Username	Password
1		admin123
2	Source	

TC_006: To test the login functionality with an invalid username or invalid password.

Given the user can access the application [OrangeHRM \(orangehrmlive.com\)](https://orangehrmlive.com) in chrome browser

When user enters invalid "username" or invalid "password"

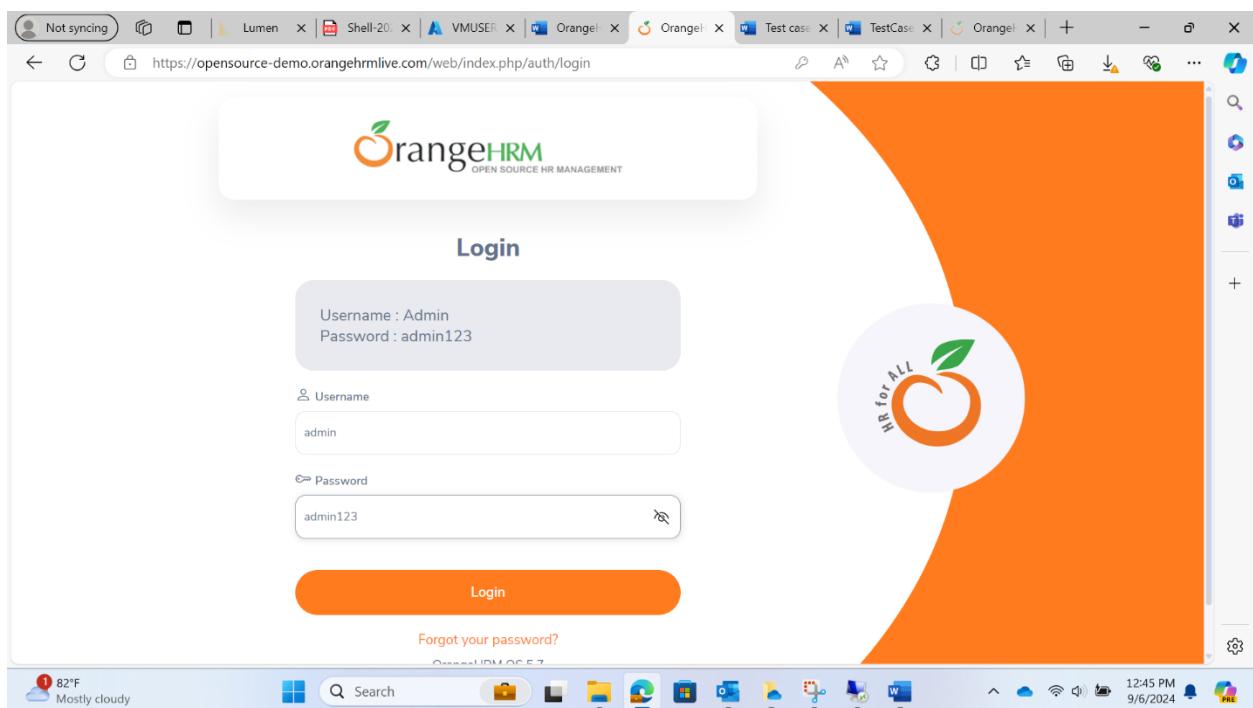
And user clicks on login button

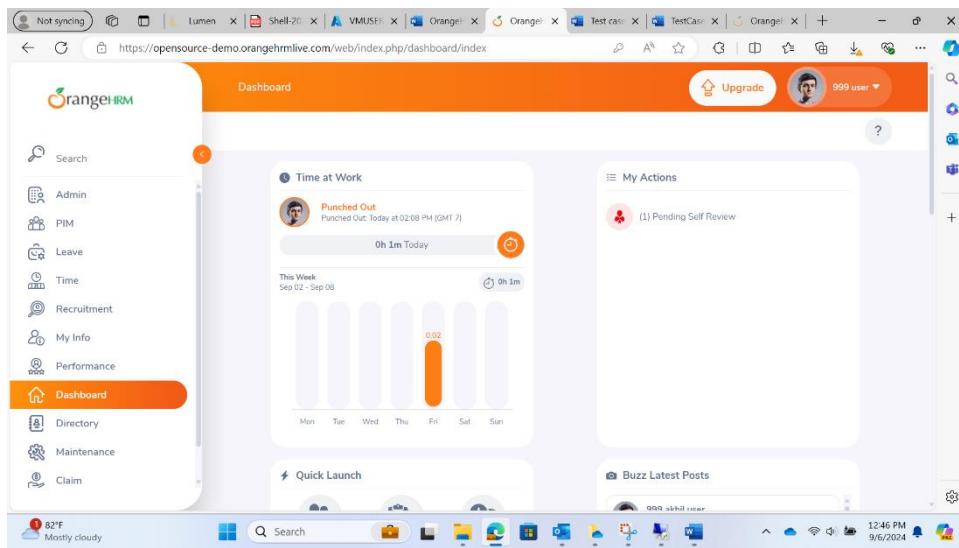
Then the user should get a message stating “Invalid credentials”.

S. No.	Username	Password	Actual outcome	Expected outcome
1	admin	admin123	Yes	No
2	Source	admin	No	No

Bug Report:

- **Description of bug:** Login successful with invalid credentials
- **Steps to reproduce:** Open OrangeHRM in chrome browser, enter “admin” username and “admin123” password and click on login button. The user is able to successfully login
- **Time stamp:** 06/09/2024 12:50 PM
- **Severity:** High
- **Priority:** Major
- **Assignee:** Developer3
- **Screenshot**





<input checked="" type="checkbox"/>	7 Login Page		Unassigned	State	To Do
<input checked="" type="checkbox"/>	16 To test the login functionality of login page using valid credentials		Unassigned	State	To Do
<input checked="" type="checkbox"/>	17 To test if username field is editable and if the user can enter text		Unassigned	State	Doing
<input checked="" type="checkbox"/>	18 To test if password field is editable and if the user can enter text		Unassigned	State	Done
<input checked="" type="checkbox"/>	19 To test if a relevant message is displayed when invalid credentials are entered.		Unassigned	State	To Do
<input checked="" type="checkbox"/>	20 To test the login functionality with an empty username or empty password.		Unassigned	State	Doing

USER STORY 5: Manage User Accounts in Admin Module

As a user, when I go to Admin->User management page of OrangeHRM application, the system should allow me to add, edit, and delete user accounts efficiently.

Acceptance Criteria:

- The system should allow the admin to access the User Management page from the Admin module.
- The system should provide options to add a new user, edit existing user details, and delete user accounts.
- The system should validate user input and display appropriate error messages for invalid data.
- The system should display a confirmation prompt before deleting a user account.
- The system should update the user list in real-time after any changes are made.

Priority: 1

Effort: 4

TC_001: To test if the User Management page in Admin Module is accessible or not.

Given the admin is logged in

When the admin navigates to the "Admin" module
And the admin selects "User Management"
Then the system should display the User Management page

TC_002: To test if a new user is being added or not.

Given the admin is on the User Management page

When the admin clicks on the "Add" button

And the admin enters valid user details

And the admin clicks on the "Save" button

Then the system should add the new user and display a success message

And the new user should appear in the user list

TC_003: To check if a new user can be edited or not.

Given the admin is on the User Management page

And there is at least one user in the user list

When the admin selects a user and clicks on the "Edit" button

And the admin updates the user details

And the admin clicks on the "Save" button

Then the system should update the user details and display a success message

And the updated user details should appear in the user list

TC_004: Delete User

Given the admin is on the User Management page

And there is at least one user in the user list

When the admin selects a user and clicks on the "Delete" button

Then the system should display a confirmation prompt

When the admin confirms the deletion

Then the system should delete the user and display a success message

And the user should be removed from the user list

TC_005: Input Validation for Adding User

Given the admin is on the User Management page

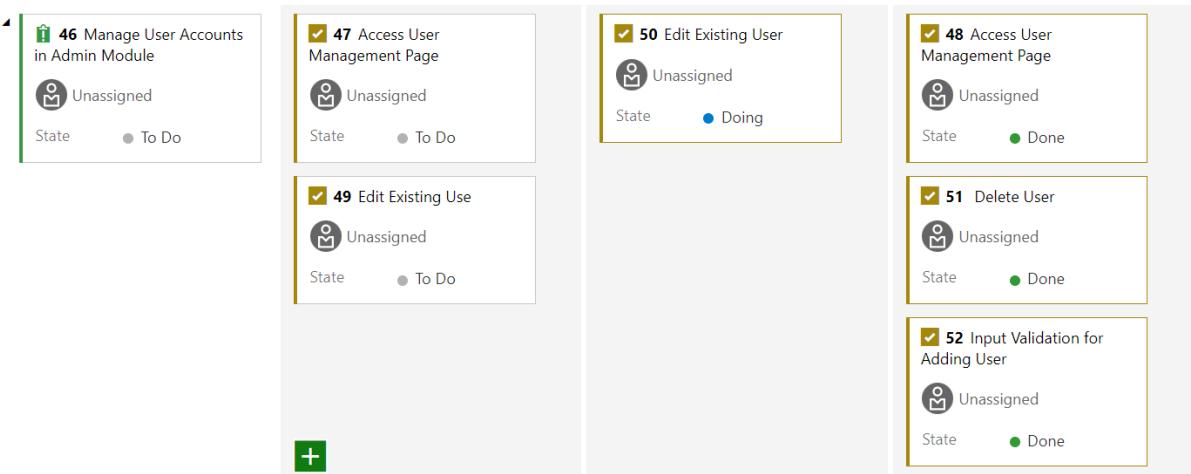
When the admin clicks on the "Add" button

And the admin enters invalid user details (e.g., missing required fields)

And the admin clicks on the "Save" button

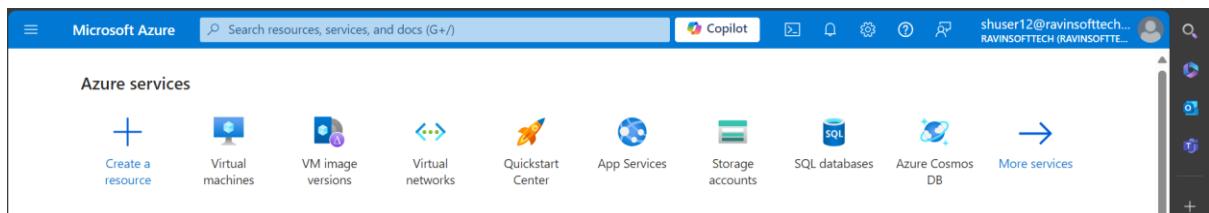
Then the system should display appropriate error messages for the invalid input

And the user should not be added to the user list



VM Creation and Usage and Github Actions

Click on Virtual Machines to create a new VM



Click on create and then select azure virtual machine

The screenshot shows the Microsoft Azure portal's 'Virtual machines' section. At the top, there are various navigation and search tools. A modal window is open in the center, titled 'Create a virtual machine'. The modal contains three main options: 'Azure virtual machine' (selected), 'Azure virtual machine with preset configuration', and 'More VMs and related solutions'. Below these options is a 'Create' button. The background shows a table header for managing virtual machines, including columns for Name, Subscription, Resource group, Location, Status, Operating system, Size, and Public IP address.

Set the configurations as depicted in the screenshot above

The screenshot shows the 'Create a virtual machine' wizard, step 1: Project details. The 'Subscription' dropdown is set to 'RDBG' and the 'Resource group' dropdown is set to 'RDBG' (with a 'Create new' link). On the right, an 'Estimated monthly cost' section shows '₹4,166.22 / month' with a 'View cost details' link. At the bottom, there are navigation buttons: '< Previous', 'Next : Disks >', and 'Review + create'.

Create a virtual machine

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

Zone options (1)

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 * (1)

Zone 1

You can now select multiple zones. Selecting multiple zones will create one VM per zone. [Learn more](#)

Security type (1)

Standard

Image * (1)

Windows 10 Pro, version 22H2 - 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.](#)

Estimated monthly cost

₹4,166.22 / month

[View cost details](#)

< Previous | Next : Disks > | Review + create | Give feedback

Create a virtual machine

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

VM architecture (1)

Arm64

x64

Arm64 is not supported with the selected image.

Run with Azure Spot discount

Size * (1)

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.
Allowed virtual machine size SKUs ([Policy details](#))

Enable Hibernation

Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. [Learn more](#)

Estimated monthly cost

₹4,166.22 / month

[View cost details](#)

< Previous | Next : Disks > | Review + create | Give feedback

Create a virtual machine

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

Administrator account

Username * (1)

vmuser

Password *

Confirm password *

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 * (1)

None

Allow selected ports

Select inbound ports *

HTTP (80), HTTPS (443), SSH (22), RDP (3389)

Estimated monthly cost

₹4,166.22 / month

[View cost details](#)

< Previous | Next : Disks > | Review + create | Give feedback

Click on Next:Disks to configure storage requirements

This screenshot shows the 'Create a virtual machine' wizard on the 'Networking' step. It includes fields for inbound ports (selected ports: HTTP (80), HTTPS (443), SSH (22), RDP (3389)), licensing (checkbox for Windows 10/11 license), and estimated monthly cost (₹4,166.22/month). Navigation buttons at the bottom include '< Previous', 'Next : Disks >', and 'Review + create'.

Now configuring the storage requirements

This screenshot shows the 'Create a virtual machine' wizard on the 'Disks' step. It includes fields for OS disk size (Image default (127 GiB)), OS disk type (Standard HDD (locally-redundant storage)), and estimated monthly cost (₹3,016.31/month). Navigation buttons at the bottom include '< Previous', 'Next : Networking >', and 'Review + create'.

Click on Next:Networking and configure

The screenshot shows the 'Create a virtual machine' wizard on the 'Networking' step. It displays network interface settings: Virtual network (new namanvm), Subnet (new default (10.7.0.0/24)), Public IP (new VMNAMAN-ip). It also shows security group (Basic selected) and inbound ports (Allow selected ports selected). Estimated monthly cost is ₹3,985.52/month.

The screenshot shows the 'Create a virtual machine' wizard on the 'Networking' step. It displays network interface settings: Virtual network (new namanvm), Subnet (new default (10.7.0.0/24)), Public IP (new VMNAMAN-ip). A warning message states: "This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses." Estimated monthly cost is ₹3,985.52/month.

The screenshot shows the 'Create a virtual machine' wizard on the 'Networking' step. It displays network interface settings: Virtual network (new namanvm), Subnet (new default (10.7.0.0/24)), Public IP (new VMNAMAN-ip). It also shows Load balancing options: None selected. Estimated monthly cost is ₹3,985.52/month.

Click on Create

The screenshot shows the Microsoft Azure portal interface for creating a virtual machine. The top navigation bar includes 'Microsoft Azure', a search bar, and user information. Below it, the breadcrumb trail shows 'Home > Virtual machines > Create a virtual machine'. The main content area is titled 'Create a virtual machine' with a sub-section 'Validation passed'. There are three buttons: 'Help me create a low cost VM', 'Help me create a VM optimized for high availability', and 'Help me choose the right VM size for my workload'. Below these are tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', and 'Tags', with 'Review + create' selected. To the right, an 'Estimated monthly cost' section displays '₹4,986.52 / month' with a link to 'View cost details'. Under 'Price', it shows '1 X Standard B2s by Microsoft' with a note about subscription credits and a price of '3.4609 INR/hr'. A link to 'Pricing for other VM sizes' is also present. A 'TERMS' section contains legal agreement text. At the bottom, there are buttons for '< Previous', 'Next >', and a prominent blue 'Create' button. Other options include 'Download a template for automation' and 'Give feedback'.

When the build is successful then go to connect

The screenshot shows the Microsoft Azure portal interface for a deployment named 'CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20240906092154'. The top navigation bar and user information are visible. The main content area has a title 'Deployment' with a sub-section 'Overview'. On the left, there's a sidebar with 'Search' and links for 'Inputs', 'Outputs', and 'Template'. The main panel shows a message 'Deployment is in progress' with a progress bar indicating the status. It provides deployment details: 'Deployment name: CreateVm-MicrosoftWindowsDeskt...', 'Subscription: RDBG', 'Resource group: RDBG', 'Start time: 06/09/2024, 10:34:00', and 'Correlation ID: 7b02b065-128d-4ee0-i'. Below this, there's a 'Deployment details' section with a table header 'Resource', 'Type', 'Status', and 'Operation details'. A note says 'No results.' A 'Give feedback' section with a 'Tell us about your experience with deployment' link is also present. On the right side, there are promotional sections for 'Microsoft Defender for Cloud', 'Free Microsoft tutorials', and 'Work with an expert'.

The screenshot shows the Microsoft Azure Deployment Overview page for a deployment named "CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20240906092154". The status is "Deployment is in progress". The deployment details table lists five resources: VMNAMAN, vmnaman497_z1, VMNAMAN-vnet, VMNAMAN-nsg, and VMNAMAN-ip, all in a "Created" or "OK" state. A sidebar on the right provides links to Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert.

Click on Go to Resource

The screenshot shows the Microsoft Azure Deployment Overview page for the same deployment, now showing a "Deployment succeeded" message. The deployment details table is identical to the previous screenshot. A sidebar on the right provides links to Cost Management, Microsoft Defender for Cloud, and Free Microsoft tutorials.

Essentials

Resource group ([move](#))

[RDBG](#)

Status

Running

Location

West US 2 (Zone 1)

Subscription ([move](#))

[RDBG](#)

Subscription ID

23d99a1f-8507-41a7-b40b-64402a51e95e

Availability zone

1

Operating system

Windows

Size

Standard B2s (2 vcpus, 4 GiB memory)

Public IP address

[4.242.56.137](#)

Virtual network/subnet

[VMNAMAN-vnet/default](#)

DNS name

[Not configured](#)

Health state

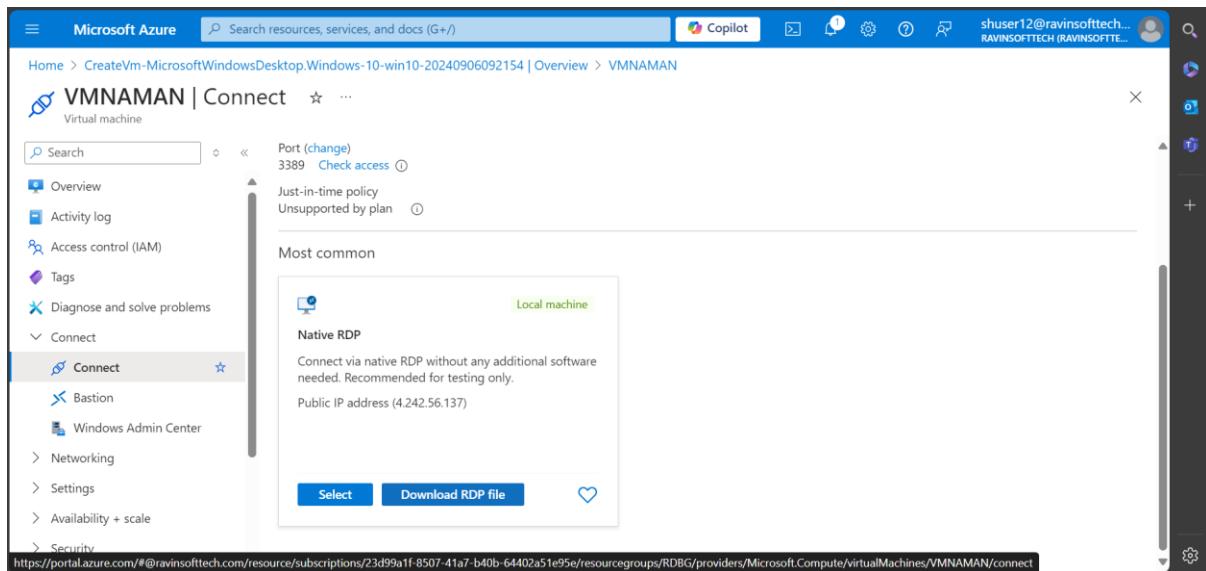
-

Time created

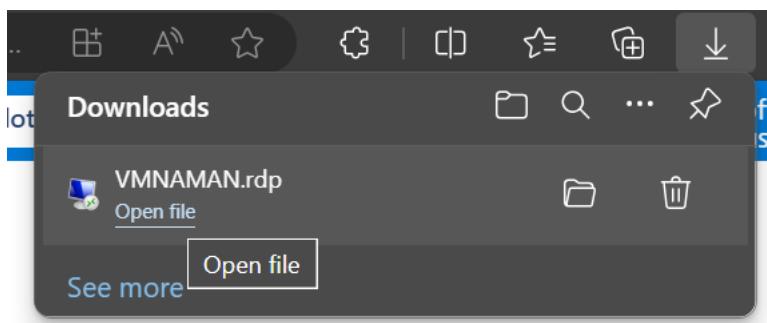
06/09/2024, 05:04 UTC

[JSON View](#)

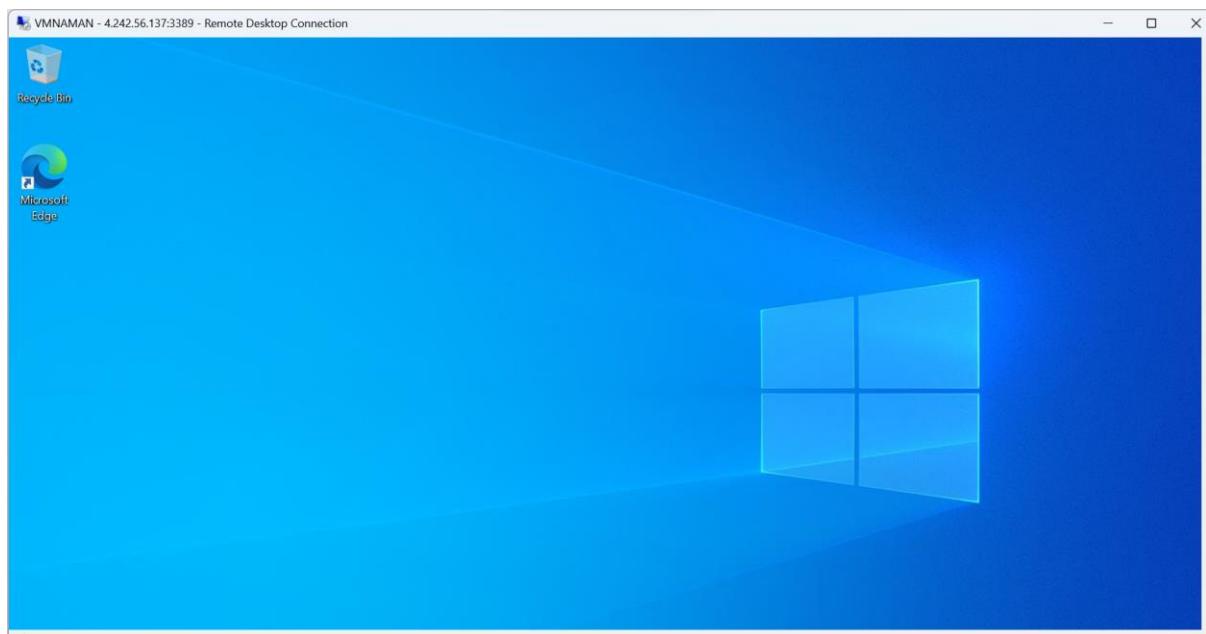
Download the RDP file and then execute the file



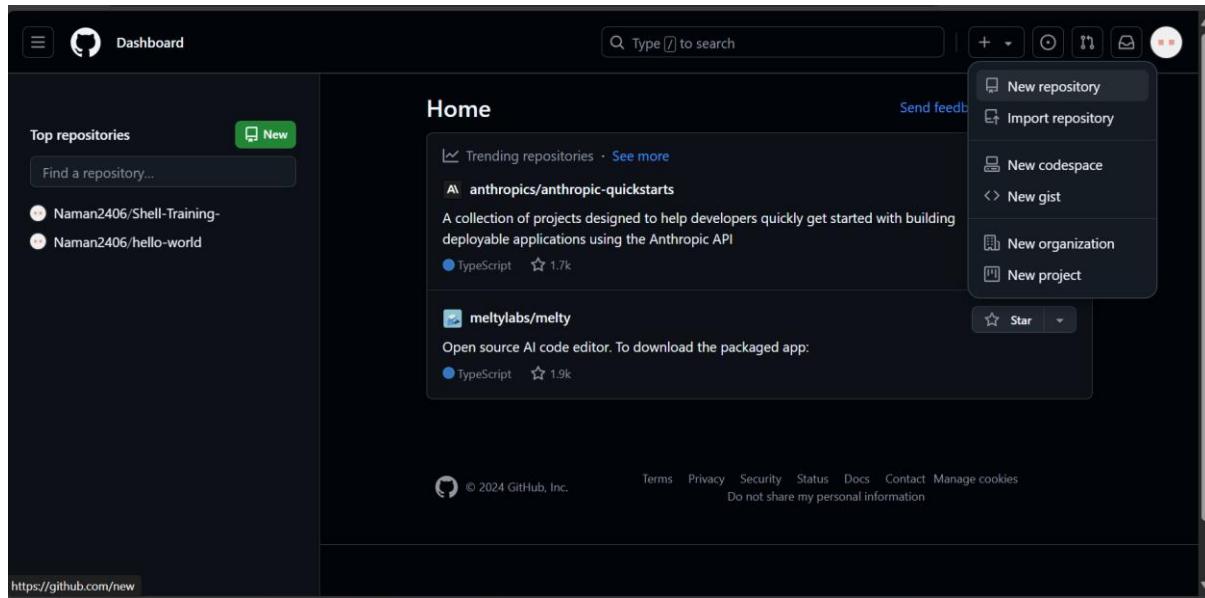
The screenshot shows the Microsoft Azure portal interface. At the top, there's a search bar and a user profile. Below it, the URL is <https://portal.azure.com/#@ravinsofttech.com/resource/subscriptions/23d99a1f-8507-41a7-b40b-64402a51e95e/resourcegroups/RDBG/providers/Microsoft.Compute/virtualMachines/VMNAMAN/connect>. The main content area is titled "VMNAMAN | Connect" and shows a "Native RDP" section with a "Download RDP file" button.



After execution VM will be launched

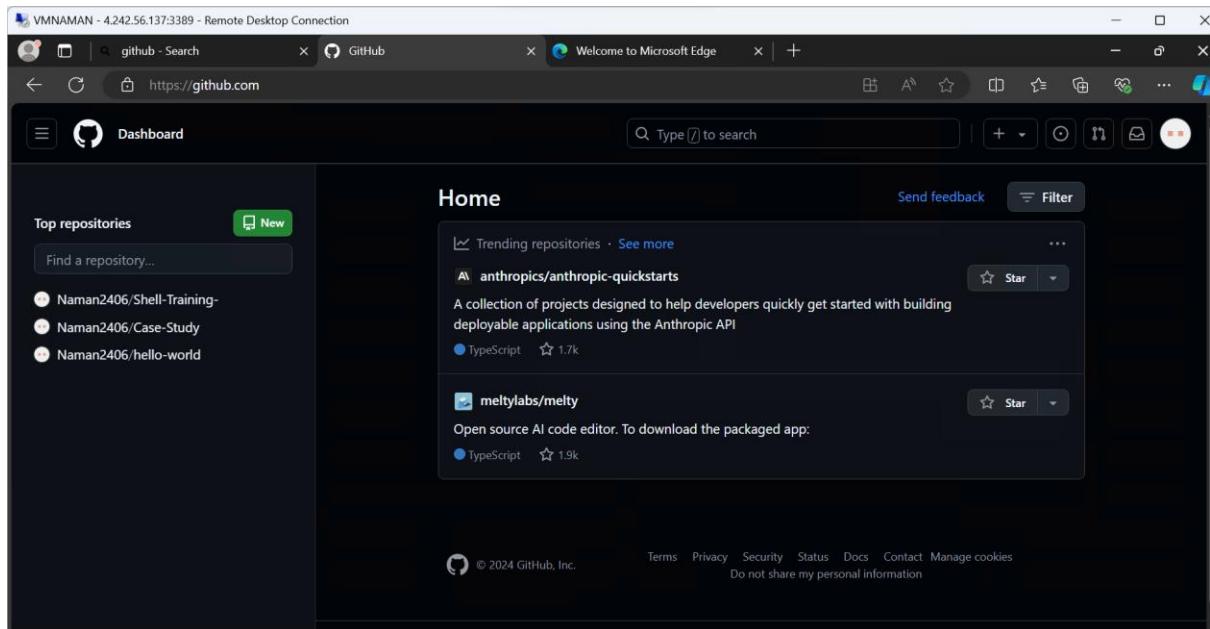


Go to Github.com and sign into the account and create new repository

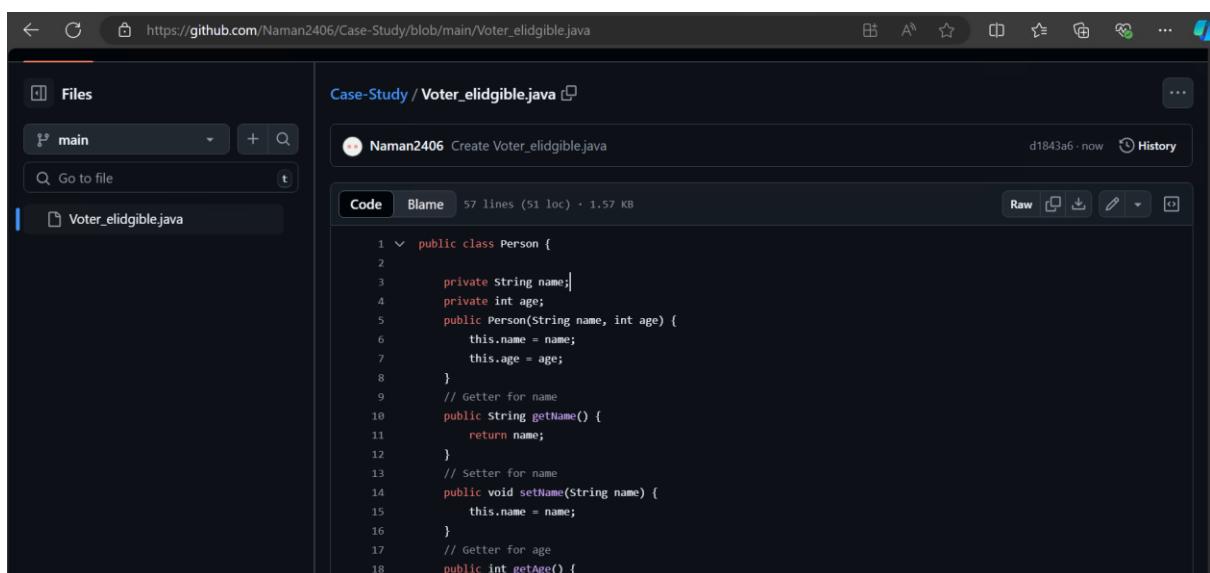


Give repository name and keep the repo public

A screenshot of the 'Create a new repository' form on GitHub. The form has several fields: 'Owner' set to 'Naman2406', 'Repository name' set to 'Case Study', 'Description' set to 'Case Study', and 'Visibility' set to 'Public'. There are also sections for initializing the repository with a README file and adding a .gitignore file. A note at the bottom says 'Your new repository will be created as Case-Study.' and specifies that the name can only contain ASCII letters, digits, and the characters ., -, and _.



Now create a java file and commit it in the main branch



Now go to github actions and create a Java with Maven workflow which will need xml and yml files which contains the configuration.

The screenshot shows a Microsoft Edge browser window with the URL <https://github.com/Naman2406/Case-Study/actions/new?category=none&query=java+with+maven>. The page title is "Workflow templates - Naman2406". The main content is titled "Get started with GitHub Actions" with the sub-instruction "Build, test, and deploy your code. Make code reviews, branch management, and issue triaging work the way you want. Select a workflow to get started." Below this, there is a "Skip this and set up a workflow yourself →" link. On the left, there is a sidebar with categories: Deployment, Security, Continuous integration, Automation, and Pages. A search bar at the top right contains the query "java with maven". The search results show two workflows: "Publish Java Package with Maven" by GitHub Actions and "Java with Maven" by GitHub Actions. Both workflows have a "Configure" button and a "Java" badge.

The screenshot shows a Microsoft Edge browser window with the URL https://github.com/Naman2406/Case-Study/new/main?filename=.github%2Fworkflows%2Fmaven.yml&workflow_te.... The page title is "New File at / - Naman2406/Case-Study". The main content is titled "Case-Study/.github/workflows/maven.yml" with status "in main". There are "Edit" and "Preview" tabs, and buttons for "Cancel changes" and "Commit changes...". The code editor contains the following YAML configuration:

```
9 name: Java CI with Maven
10
11 on:
12   push:
13     branches: [ "main" ]
14   pull_request:
15     branches: [ "main" ]
16
17 jobs:
18   build:
19
20     runs-on: ubuntu-latest
21
22     steps:
23       - uses: actions/checkout@v4
24       - name: Set up JDK 17
25         uses: actions/setup-java@v4
26         with:
27           java-version: '17'
28           distribution: 'temurin'
```

To the right of the editor is a "Marketplace" sidebar with a search bar and a list of "Featured Actions":

- Cache** By actions ★ 4.4k: Cache artifacts like dependencies and build outputs to improve workflow execution time.
- Setup Java JDK** By actions ★ 1.5k: Set up a specific version of the Java JDK and add the command-line tools to the PATH.
- Setup Go environment** By actions ★ 1.4k: Setup a Go environment and

Commit changes

X

Commit message

Create maven.yml

Extended description

Add an optional extended description..

- Commit directly to the `main` branch
- Create a **new branch** for this commit and start a pull request [Learn more about pull requests](#)

Cancel

Commit changes

The screenshot shows two GitHub pull requests:

- c908617 - 6 minutes ago**: Naman2406 Create pom.xml. This PR adds a pom.xml file to the repository. The code defines a Maven project with groupId com.example, artifactId voterEligibility, version 1.0-SNAPSHOT, and compiler settings for source and target Java 1.8.
- 4d29b13 - 9 minutes ago**: Naman2406 Update maven.yml. This PR updates a maven.yml file for CI automation. The workflow uses actions to build a Java project with Maven, cache dependencies, and run tests. It specifies Java 17 and Maven 3.8.4, and runs the command mvn -B package --file pom.xml.

```

public class Person {

    private String name;

    private int age;

    public Person(String name, int age) {

        this.name = name;

        this.age = age;

    }

    // Getter for name

    public String getName() {

        return name;

    }
}

```

```
// Setter for name

public void setName(String name) {
    this.name = name;
}

// Getter for age

public int getAge() {
    return age;
}

// Setter for age

public void setAge(int age) {
    this.age = age;
}

// Method to check voting eligibility

public boolean isEligibleToVote() {
    return age >= 18;
}

public static void main(String[] args) {
    // Create a new Person object
    Person person = new Person("Alice", 20);

    // Display person's details
    System.out.println("Name: " + person.getName());
    System.out.println("Age: " + person.getAge());

    // Check voting eligibility
    if (person.isEligibleToVote() ) {
        System.out.println(person.getName() + " is eligible to vote.");
    } else {

```

```

        System.out.println(person.getName() + " is not eligible to vote.");
    }

    // Modify person's age using setter
    person.setAge(16);

    // Check voting eligibility again
    if (person.isEligibleToVote()) {

        System.out.println(person.getName() + " is eligible to vote.");

    } else {

        System.out.println(person.getName() + " is not eligible to vote.");

    }
}

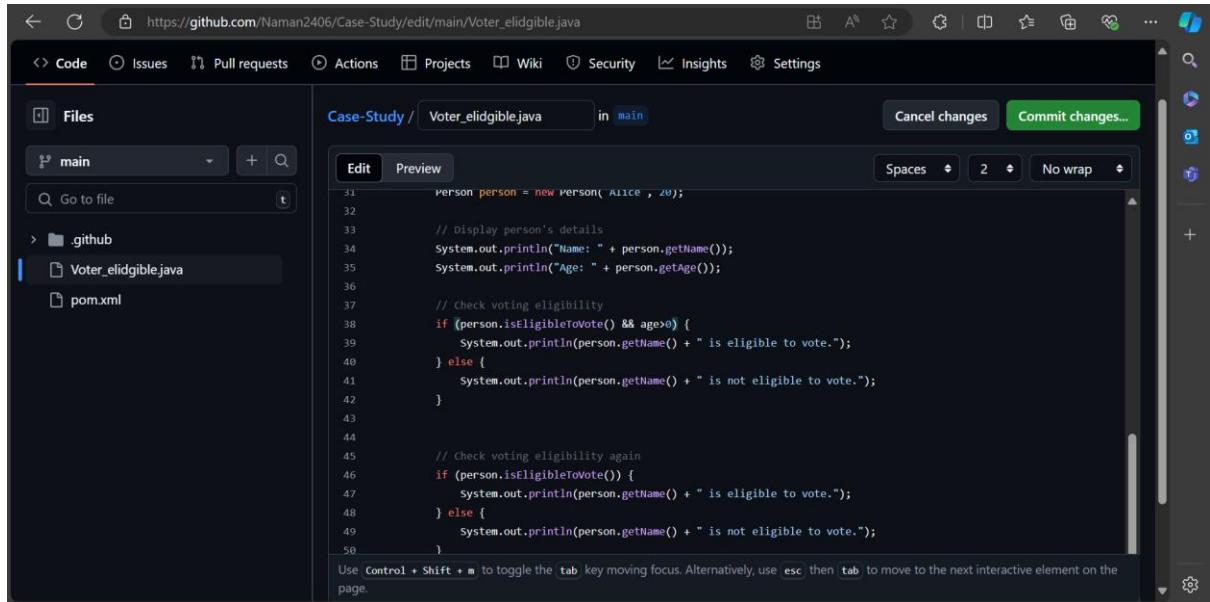
```

Now go back to Actions tab and check whether the build is successful or not

The screenshot shows the GitHub Actions interface for the repository 'Naman2406 / Case-Study'. The top navigation bar includes links for Code, Issues, Pull requests, Actions (which is the active tab), Projects, Wiki, Security, Insights, and Settings. The main area displays 'All workflows' with a count of 5 workflow runs. A prominent callout box encourages users to 'Help us improve GitHub Actions' by providing feedback. Below this, a specific workflow run for 'Create pom.xml' is shown, triggered via push 8 minutes ago by Naman2406. The run status is Success, with a total duration of 18s. The 'Summary' tab is selected, showing details like 'Triggered via push 8 minutes ago', 'Status Success', 'Total duration 18s', and 'Artifacts -'. The 'build' job is highlighted with a green checkmark, indicating it completed successfully in 10s. Other tabs available include 'Jobs', 'Run details', 'Usage', and 'Workflow file'.

Now commit few changes in the java file

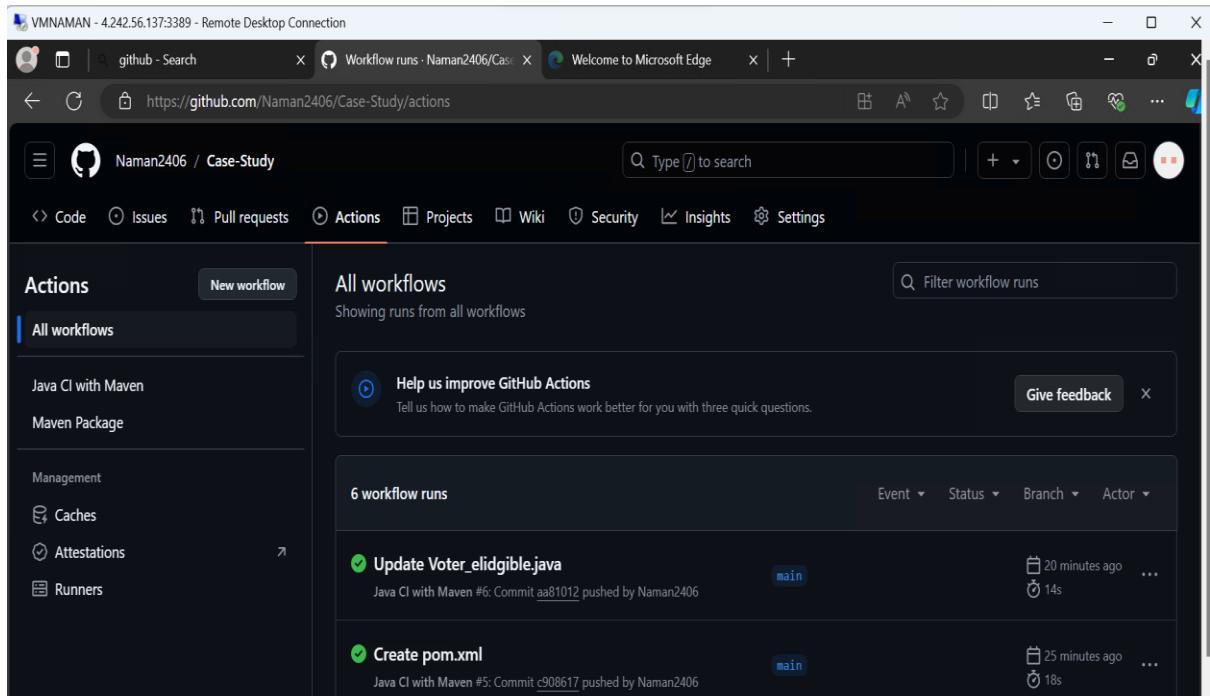
I have made a few changes in the conditional statements



The screenshot shows the GitHub code editor interface. The left sidebar lists files: main, .github, Voter_eligible.java, and pom.xml. The main area displays the content of Voter_eligible.java. The code contains several conditional statements (if and else blocks) that print out names and ages. A green 'Commit changes...' button is visible at the top right.

```
31 person person = new person( "Alice" , 20 );
32
33 // Display person's details
34 System.out.println("Name: " + person.getName());
35 System.out.println("Age: " + person.getAge());
36
37 // Check voting eligibility
38 if (person.isEligibleToVote() && age>0) {
39     System.out.println(person.getName() + " is eligible to vote.");
40 } else {
41     System.out.println(person.getName() + " is not eligible to vote.");
42 }
43
44 // check voting eligibility again
45 if (person.isEligibleToVote()) {
46     System.out.println(person.getName() + " is eligible to vote.");
47 } else {
48     System.out.println(person.getName() + " is not eligible to vote.");
49 }
50 }
```

Now go back to Actions tab to validate whether the build is successful or not after the changes have been committed in the java file



The screenshot shows the GitHub Actions tab. The left sidebar has sections for All workflows, Java CI with Maven, Maven Package, Management, Caches, Attestations, and Runners. The main area shows 'All workflows' and '6 workflow runs'. Two recent runs are listed: 'Update Voter_eligible.java' (successful, 20 minutes ago) and 'Create pom.xml' (successful, 25 minutes ago). A 'Give feedback' button is also present.

Workflow	Status	Time	Details
Update Voter_eligible.java	Success	20 minutes ago	Java CI with Maven #6: Commit aa81012 pushed by Naman2406
Create pom.xml	Success	25 minutes ago	Java CI with Maven #5: Commit c908617 pushed by Naman2406

← ⌂ https://github.com/Naman2406/Case-Study/actions/runs/10733725016

Naman2406 / Case-Study Actions Projects Wiki Security Insights Settings

← Java CI with Maven
Update Voter_eligible.java #6 Re-run all jobs ...

Summary

Triggered via push 4 minutes ago
Naman2406 pushed -> aa81012 main Status Success Total duration 14s Artifacts

maven.yml
on: push

build 5s

Jobs Usage Workflow file

This screenshot shows a GitHub Actions run summary for a repository named 'Case-Study'. The run was triggered via a push 4 minutes ago and was successful. The total duration was 14 seconds. The workflow file is 'maven.yml' and it includes a 'build' step. The build step was successful and took 5 seconds. The sidebar on the left shows options for 'Jobs', 'Usage', and 'Workflow file'.