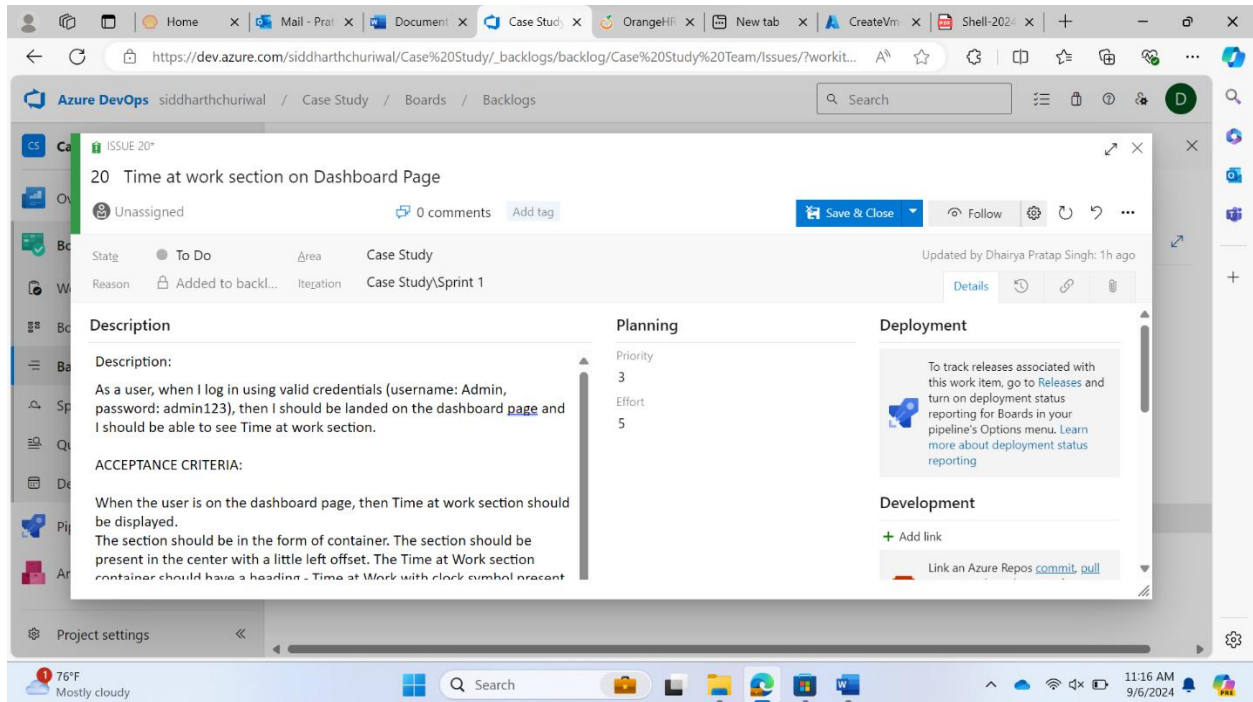


# CASE STUDY

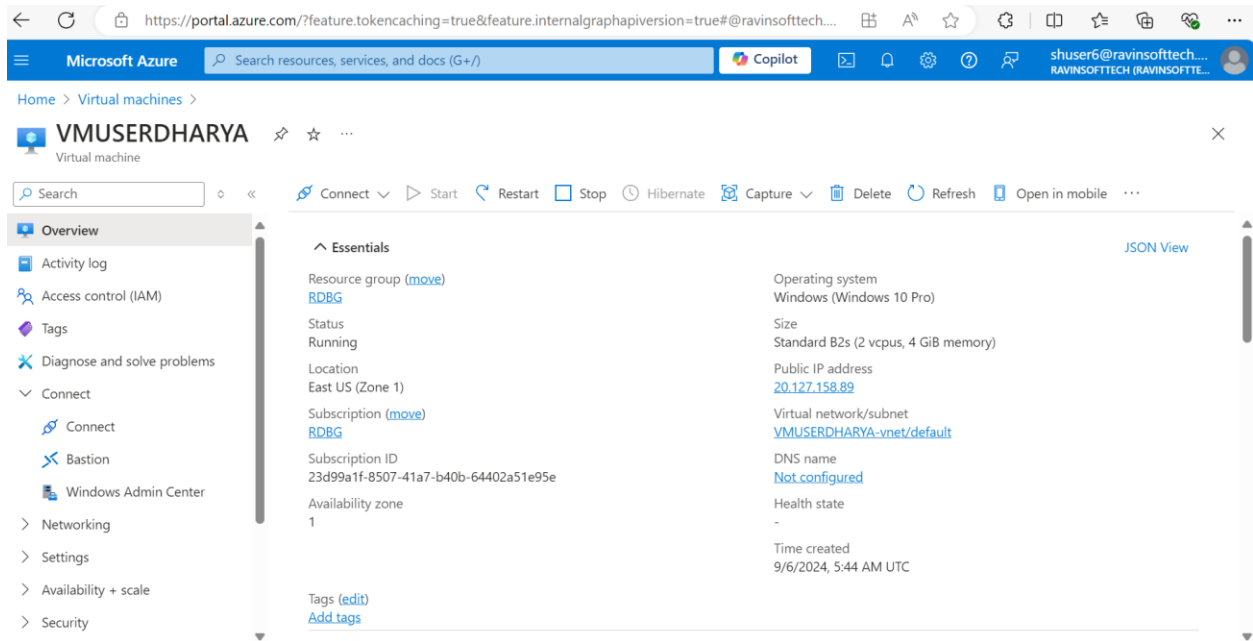
- Dharya Pratap Singh

Github repo: [dharya07/Technical-Case-Study \(github.com\)](https://github.com/dharya07/Technical-Case-Study)

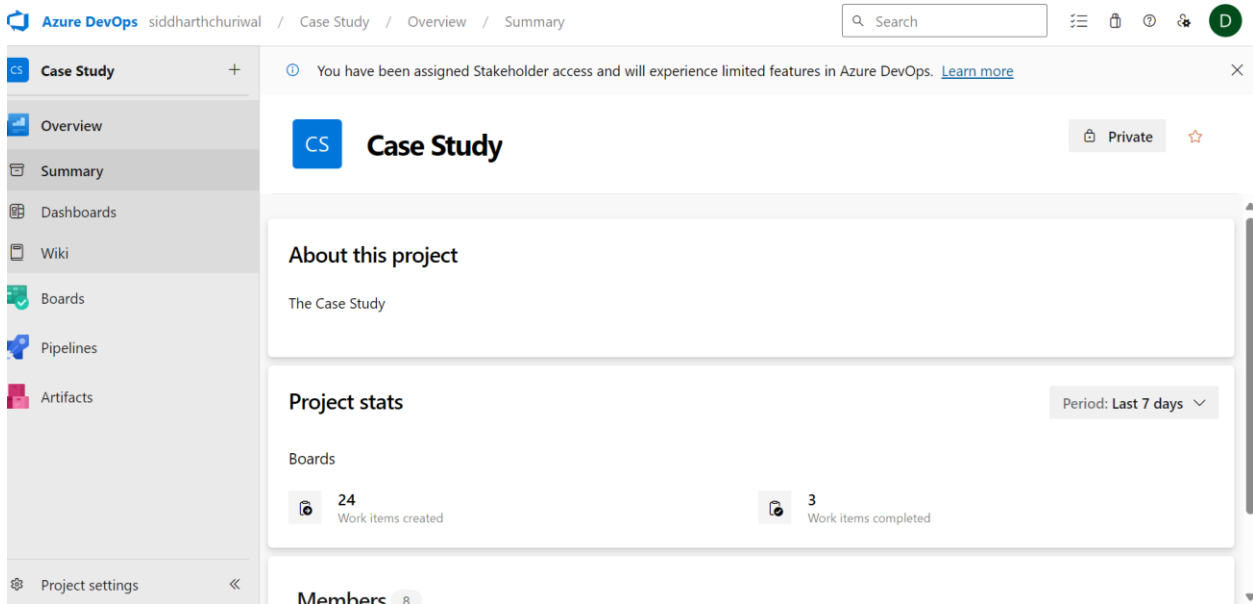
1.



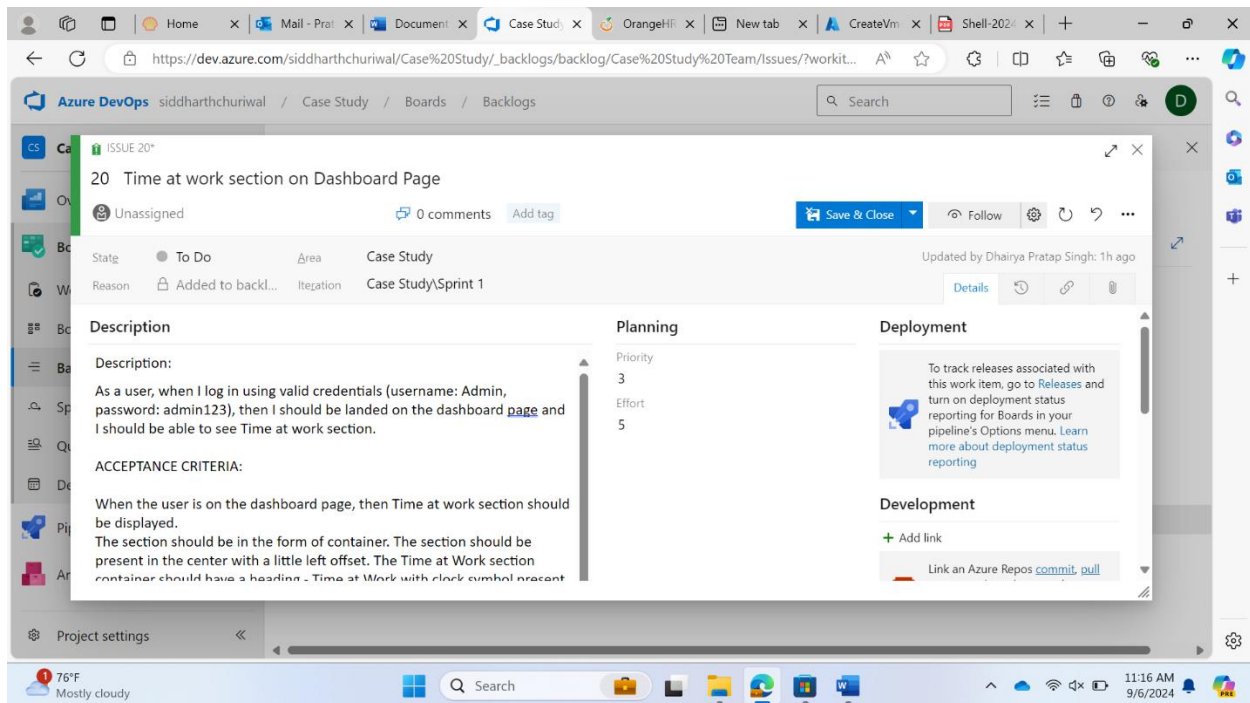
2.



3.



4.



5.

## 1. User Story: Header

### Description:

As a user when I am successfully logged in to the website the user should be directed to the dashboard including the header. The header should contain the web page name, a button to upgrade and the drop-down menu including the options of About, Support, change Password and logout.

### ACCEPTANCE CRITERIA:

when the user is successfully logged in to the website. And have access to the dashboard page the user should be directed to the dashboard page which has a header which is included in every page of the website after the successful login. The header should include the web page navigated to (e.g. Dashboard) on the left top corner of the website. On the right side the header should include a drop-down menu header as the profile photo of the user with the user's full name. In the drop-down menu the options include About Support, Change Password and logout button.

On click on the About option from the drop-down menu the user should be displayed a pop-up showing Company Name, Version, Active Employees and Employees Terminated.

On click on the Support option from the drop-down menu the user should be directed to the Support page which has the basic information of the company and the customer support contact us link which should be hyperlinked to the website [ossupport@orangehrm.com](mailto:ossupport@orangehrm.com). On click on the Change Password option from the drop-down menu the user should be directed to the page asking for the changing the password of the current user logged in. Which has fields for current password, New Password and confirm password including the save and cancel buttons. On click on the logout option from the drop-down menu the user should be logged out of the website and should be redirected to the login page. The button of upgrade should be available to the left of the drop-down menu.

Priority: 2

Effort: 4

## **2. User Story:** Time at work section in Dashboard page

### **Description:**

As a user, when I log in using valid credentials (username: Admin, password: admin123), then I should be landed on the dashboard page and I should be able to see Time at work section.

### **ACCEPTANCE CRITERIA:**

When the user is on the dashboard page, then Time at work section should be displayed. The section should be in the form of container. The section should be present in the center with a little left offset. The Time at Work section container should have a heading - Time at Work with clock symbol present on the left side of the heading. Below heading – ‘Time at work’ logged in user image should be present in the form of circle. The image circle should be very small. On the right side of the profile image – ‘Punched Out’ subheading should be displayed. Punched out subheading should be written in small. Below ‘Punched out’ subheading Punched out should be displayed along with the timestamp at which logged in user was last punched out. Below user profile and punched out detail – duration of punched in should be displayed. On the right side of the punched in time duration field, a clock symbol should be visible. On clicking on this clock symbol – time page should be displayed. On below of punched in time duration field – ‘This week’ text should be displayed. Below this text, this week duration should be displayed in the form (Month Day). Month should be abbreviated. On right of this week info – this week punched in should be displayed. Below this – for every day of this week punched in time should be displayed in the form of vertical bar chart.

Priority: 3

Effort: 4

## **3. User Story:** Side Navigation Bar

**Description:**

As a user, when I login the website, I should be able to see a side navigation bar which should contain various categories which lead to their respective pages.

**ACCEPTANCE CRITERIA:**

When the user logs in they are able to see the side navigation bar on the website which contains the websites logo on the top and contains various categories. The categories should be

1. Search option
2. PIM option
3. Leave option
4. Time option
5. Recruitment option
6. My Info option
7. Performance option
8. Dashboard option
9. Directory option
10. Maintenance option
11. Claim option
12. Buzz option

All the options should have their respective logos on the left side. There should be an orange-colored arrow button on the sidebar which should be able to close and open the navigation bar. When the navigation bar is closed, only the logos of the respective options should be visible in orange color. All the logos should be clickable. All options in the nav bar should be white in color with grey colored text but when mouse pointer is brought near any option it should change to hand pointer and the color should be changed to orange.

Priority: 2

Effort: 4

**4. USER STORY: Apply for Leave****Description:**

As a user when I select the 'Apply' option on the nav bar of the Leave page, I should be able to view the dashboard for applying for leave which must contain the Leave Type, Leave Balance, From Date, To Date and the button to apply for leave.

**ACCEPTANCE CRITERIA:**

1. System should allow a successfully logged in user to compulsorily select a Leave Type on clicking the drop down list for it.
2. System must allow the user to compulsorily enter the 'From Date' and 'To Date' for the leave duration in YYYY-DD-MM format.
3. If the user does not select the Leave Type, the system must not allow the user to apply for a leave.
4. If the user does not select the 'From Date' and 'To Date' for the leave, the system must not allow the user to apply for the leave.

5. If the user selects the date for 'To Date' section for before the 'From Date', then the system must flag an error and display the message 'To date should be after the From Date'.

6. On the basis of the number of days, a user applies for leave, the system must display

**Priority: 2**

**Effort: 3**

### 5. User Story: Login Page

**Description:**

As a user when I enter Valid Username and password, then I should be redirected to home page

**ACCEPTANCE CRITERIA:**

When valid credentials are entered then system should allow user to access the Dashboard. Username should contain alpha-numeric values and should be not less than 8 and not more than 30 characters. The password must be minimum of 8 and maximum of 25 characters including the option of alpha-numeric characters and special characters such as! @, #, \$, and %. Login button should only be clickable after user have type valid format of username and password.

**Priority: 1**

**Effort: 3**

6. N/A

7.

### Test Cases

#### TC 001

**Description:** Validate the header content

Given the user is logged in to the website with the username: "Admin" and password "admin123"

And has the access to the dashboard page of the website.

Then the Header should display the web page name (e.g., Dashboard) on the left, an upgrade button, and a drop-down menu with the user's profile photo and full name on the right.

#### TC 002

**Description:** Validate if The Drop-down menu is clickable

Given the user is logged in to the website with the username: "Admin" and password "admin123"

When the user clicks on the drop-down menu

Then the options About, Support, Change Password, and Logout should be displayed.

### TC 003

**Description:** Validate the about option in the drop-down menu

Given the user is logged in to the website with the username: "Admin" and password "admin123"

When the user clicks on the drop-down menu

And clicks on the "About" option.

Then the user should be able to view the pop-up which shows the Company Name, Version, Active Employees and Employees Terminated.

### TC 004

**Description:** Validate the support option in Drop-down menu

Given the user is logged in to the website with the username: "Admin" and password "admin123"

When the user clicks on the drop-down menu

And clicks on the "Support" option.

Then the user should be directed to Support page with company information and a contact link which is hyperlinked to the contact email (ossupport@orangehrm.com).

### TC 005

**Description:** Validate the change password option in Drop-down menu

Given the user is logged in to the website with the username: "Admin" and password "admin123"

When the user clicks on the drop-down menu

And clicks on the "Change Password" option.

Then the User is directed to the Change Password page, which contains fields for current password, new password, confirm password, and Save and Cancel buttons.

### Test Case 006: Display of "Time at Work" Section

- **Given:** The user is on the dashboard page.
- **When:** The page loads.
- **Then:** The "Time at Work" section should be displayed in the center with a slight left offset.

### Test Case 007: Heading and Icon Display

- **Given:** The user is on the dashboard page.
- **When:** The "Time at Work" section is displayed.
- **Then:** The section should have a heading "Time at Work" with a clock symbol on the left side of the heading.

### Test Case 008: User Profile Image Display

- **Given:** The user is on the dashboard page.
- **When:** The "Time at Work" section is displayed.
- **Then:** A very small circular profile image of the logged-in user should be displayed below the heading.

### Test Case 009: "Punched Out" Timestamp Display

- **Given:** The user is on the dashboard page.
- **When:** The “Time at Work” section is displayed.
- **Then:** The correct timestamp of the last punch out should be displayed below the “Punched Out” subheading.

**Test Case 010: Clock Symbol Functionality**

- **Given:** The user is on the dashboard page.
- **When:** The user clicks on the clock symbol next to the punched-in duration field.
- **Then:** The user should be redirected to the time page.

**Test Case 011: Display of This Week’s Duration**

- **Given:** The user is on the dashboard page.
- **When:** The “Time at Work” section is displayed.
- **Then:** The duration for the current week should be displayed in the format (Month Day), with the month abbreviated.

**Test Case 012: Display of This Week’s Punched In Time**

- **Given:** The user is on the dashboard page.
- **When:** The “Time at Work” section is displayed.
- **Then:** The total punched-in time for the current week should be displayed to the right of the week’s duration.

**Test Case 013: Vertical Bar Chart Displaying punched in time for every day of this week**

- **Given:** The user is on the dashboard page.
- **When:** The “Time at Work” section is displayed.
- **Then:** A vertical bar chart showing the correct punched-in time for each day of the current week should be displayed below the week’s duration

**Test Case 014: Punched in time for today should match punched in time duration for today in vertical bar**

- **Given:** The user is on the dashboard page.
- **When:** The “Time at Work” section is displayed.
- **Then:** Punched in time for today should match punched in time duration for today in vertical bar

**TS015:**

Scenario: Verify side navigation bar visibility after login

Given the user is on the login page.

When the user logs in.

Then the user should be able to see the side navigation bar on the website.

**TS016:**

Scenario: Verify website logo on the side navigation bar

Given the user is on the side navigation bar.

When the user logs in.

Then the website's logo should be visible at the top of the side navigation bar



AND the side navigation bar should contain the following categories with their respective logos:

Category	
Search	
PIM	
Leave	
Time	
Recruitment	
My Info	
Performance	
Dashboard	
Directory	
Maintenance	
Claim	
Buzz	

#### **TC017**

Scenario: Verify orange-colored arrow button functionality

Given the user is on the side navigation bar

When the user clicks on the orange-colored arrow button

Then the navigation bar should close

And only the logos of the respective options should be visible in orange color

When the user clicks on the orange-colored arrow button again

Then the navigation bar should open

#### **TC018**

Scenario: Verify clickable logos

Given the user is on the side navigation bar

When the user clicks on any logo

Then the user should be directed to the respective page

#### **TC019**

Scenario: Verify hover effect on navigation options

Given the user is on the side navigation bar

When the mouse pointer is brought near any option

Then the pointer should change to a hand pointer

And the color of the option should change to orange

And all options in the nav bar should be white in color with grey colored text

#### **Test case 020**

description: Verify that a successfully logged in user can navigate to the Leave page.

Given the user is successfully logged in

When the user selects the Leave page on the nav bar

Then the Leave dashboard should be displayed.

### **Test case 021**

Test case description: Ensure the Leave page is accessible when the user has a valid session.

Given the user has a valid session  
When the user selects the Leave page on the nav bar  
Then the Leave dashboard should be displayed

### **Test case 022**

description: Verify that the Leave page is not accessible when the user session is invalid.

Given the user session is invalid  
When the user selects the Leave page on the nav bar  
Then the user should be redirected to the login page

### **Test case 023**

description: Ensure the Leave page is not accessible without logging in.

Given the user is not logged in  
When the user tries to access the Leave page directly via URL  
Then the user should be redirected to the login page

### **Test case 024**

description: Verify that all UI elements are present on the Leave dashboard.

Given the user is successfully logged in  
When the user navigates to the Leave page  
Then the Leave dashboard should display all required UI elements

### **Test Case 025: Valid Login**

**Description:** Given the user is on the login page  
When the user enters a valid username "User12345"  
And the user enters a valid password "Password@123"  
And the user clicks the "Login" button  
Then the user is redirected to the Dashboard  
**Expected Result:** User is redirected to the Dashboard.

### **Test Case 026: Empty Username Field**

Description: Given the user is on the login page  
When the user leaves the username field empty  
And the user enters a valid password "Password@123"  
And the user attempts to click the "Login" button

Then an error message is displayed indicating that the username field is required  
Expected Result: error message displayed

**Test Case 027: Empty Password Field**

Description: Leave the password field empty.

Steps:

Enter a valid username.

Leave the password field empty.

Attempt to click the login button.

Expected Result: Error message displayed

**Test Case 028: Empty Username and Password Fields**

Description: Given the user is on the login page

When the user enters a valid username "User12345"

And the user leaves the password field empty

And the user attempts to click the "Login" button

Then an error message is displayed indicating that the password field is required

Expected Result: error message is displayed.

**Test Case 029: Username with Special Characters**

Description: Given the user is on the login page

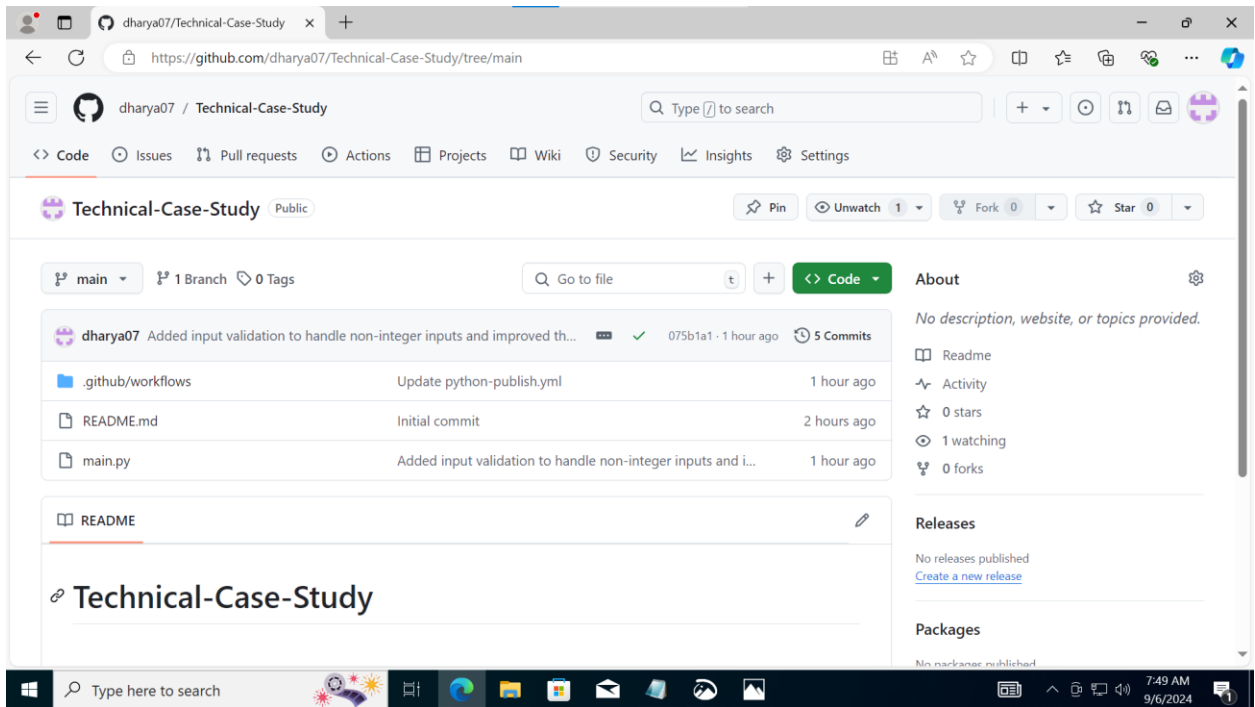
When the user enters a username with special characters "User@123"

And the user enters a valid password "Password@123"

And the user attempts to click the "Login" button

Then an error message is displayed indicating that the username contains invalid characters

Expected Result: Error message displayed



12.

```
Code Blame 59 lines (52 loc) • 1.16 KB Raw Copy Download Edit View Source
```

```
21 scissors = ''
22 user_choice = int(
23     input("What do you choose? Type 0 for Rock, 1 for Paper, 2 for Scissors.\n"))
24
25 computer_choice = random.randint(0, 2)
26
27 if user_choice >= 0 and user_choice <= 2:
28     print(game_images[user_choice])
29     print("Computer chose:")
30     print(game_images[computer_choice])
31     if user_choice == computer_choice:
32         print("Draw")
33     elif user_choice == 0:
34         if computer_choice == 1:
35             print("You lose")
36         else:
37             print("You win!")
38     elif user_choice == 1:
39         if computer_choice == 2:
40             print("You lose")
41         else:
42             print("You win!")
43     elif user_choice == 2:
44         if computer_choice == 0:
45             print("You lose")
```

13.

The screenshot shows a web browser displaying the GitHub repository page for 'Technical-Case-Study'. The file path is 'Technical-Case-Study / .github / workflows / python-publish.yml'. The file content is as follows:

```
1 name: Rock-Paper-Scissors Game
2
3 on: [push, pull_request]
4
5 jobs:
6   run-game:
7     runs-on: ubuntu-latest
8
9   steps:
10    - name: Checkout repository
11      uses: actions/checkout@v2
12
13    - name: Set up Python
14      uses: actions/setup-python@v2
15      with:
16        python-version: '3.x'
17
18    - name: Run Rock-Paper-Scissors Game
19      run: |
20        echo "0" | python main.py
```

The interface includes a 'Files' sidebar on the left with a search bar and a list of files: 'python-publish.yml', 'README.md', and 'main.py'. The main area shows the code editor with tabs for 'Code' and 'Blame'. The 'Code' tab is active, showing the workflow file. The 'View Runs' button is visible in the top right corner.

The screenshot shows the GitHub Actions page for the 'Technical-Case-Study' repository. The page displays a list of workflow runs for the 'Rock-Paper-Scissors Game' workflow. The runs are as follows:

Run	Status	Event	Branch	Actor	Time
Added input validation to handle non-integer inputs ...	Success	Commit 075b1a1	main	dharya07	1 minute ago
Update python-publish.yml	Success	Commit 19fca77	main	dharya07	6 minutes ago
Create python-publish.yml	Failure	Commit ad67c36	main	dharya07	9 minutes ago

The page includes a search bar for workflow runs and a sidebar with navigation links: 'All workflows', 'Rock-Paper-Scissors Game', 'Management', 'Caches', 'Attestations', and 'Runners'. The 'All workflows' section is currently selected.

14.

The screenshot shows the GitHub Actions interface for a workflow named 'Update python-publish.yml #2'. The workflow is in a 'succeeded' state, having completed 1 hour ago in 3 seconds. The left sidebar shows the 'Summary' tab, with 'Jobs' listed below it, including 'run-game'. The main panel displays the 'run-game' job details, showing a list of steps: 'Set up job' (0s), 'Current runner version: '2.319.1'', 'Operating System', 'Runner Image', 'Runner Image Provisioner', 'GITHUB\_TOKEN Permissions', 'Secret source: Actions', 'Prepare workflow directory', 'Prepare all required actions', 'Getting action download info', 'Download action repository 'actions/checkout@v2'', 'Download action repository 'actions/setup-python@v2'', and 'Complete job name: run-game'.

15.

The screenshot shows the GitHub repository file view for 'main.py' in the 'Technical-Case-Study' repository. The file is 58 lines (50 loc) and 1.2 KB. The code is displayed in a light blue theme. The file content is as follows:

```
26 ( )
27 ---_( )
28 ...
29
30 game_images = [rock, paper, scissors]
31
32 def get_user_choice():
33     while True:
34         try:
35             choice = int(input("What do you choose? Type 0 for Rock, 1 for Paper, 2 for Scissors.\n"))
36             if choice in [0, 1, 2]:
37                 return choice
38             else:
39                 print("Invalid choice. Please enter 0, 1, or 2.")
40         except ValueError:
41             print("Invalid input. Please enter a number.")
42
43 user_choice = get_user_choice()
44 computer_choice = random.randint(0, 2)
45
46 print("You chose:")
47 print(game_images[user_choice])
48 print("Computer chose:")
49 print(game_images[computer_choice])
50
51 if user_choice == computer_choice:
```

16.

dharya07 / Technical-Case-Study

Code Issues Pull requests **Actions** Projects Wiki Security Insights Settings

Rock-Paper-Scissors Game

✓ Added input validation to handle non-integer inputs and improved the ... #3 Re-run all jobs ...

Summary

Jobs

- run-game

Run details

Usage

Workflow file

**run-game**  
succeeded 1 hour ago in 8s

Set up job 0s

```
1 Current runner version: '2.319.1'
2 Operating System
6 Runner Image
11 Runner Image Provisioner
13 GITHUB_TOKEN Permissions
17 Secret source: Actions
18 Prepare workflow directory
19 Prepare all required actions
20 Getting action download info
21 Download action repository 'actions/checkout@v2' (SHA: ee0669bd1cc54295c223e0bb666b733df41de1c5)
22 Download action repository 'actions/setup-python@v2' (SHA: e9aba2c848f5ebd159c070c61ea2c4e2b122355e)
23 Complete job name: run-game
```

17.

Workflow runs · dharya07/Techni... X

https://github.com/dharya07/Technical-Case-Study/actions

dharya07 / Technical-Case-Study

Code Issues Pull requests **Actions** Projects Wiki Security Insights Settings

**Actions** New workflow

All workflows

Rock-Paper-Scissors Game

Management

- Caches
- Attestations
- Runners

**All workflows**

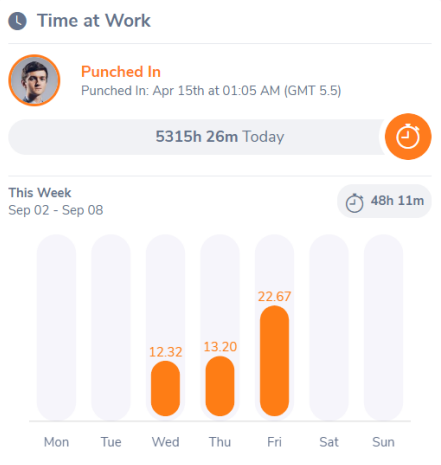
Showing runs from all workflows

Filter workflow runs

3 workflow runs

	Event	Status	Branch	Actor
✓ Added input validation to handle non-integer inputs ...	Rock-Paper-Scissors Game #3: Commit 075b1a1 pushed by dharya07	main	1 minute ago	...
✓ Update python-publish.yml	Rock-Paper-Scissors Game #2: Commit 19fca77 pushed by dharya07	main	6 minutes ago	...
✗ Create python-publish.yml	Rock-Paper-Scissors Game #1: Commit ad67c36 pushed by dharya07	main	9 minutes ago	...

18.

Defect No.	1
Description	Punched In time duration detail for today is wrong
Steps to reproduce	<ol style="list-style-type: none"> <li>1. Open the edge browser</li> <li>2. Go to <a href="https://opensource-demo.orangehrmlive.com/web/index.php">https://opensource-demo.orangehrmlive.com/web/index.php</a></li> <li>3. Login using valid credentials (username: admin, password: admin123)</li> <li>4. View the Punched in time duration for today in 'Time at Work' section</li> </ol>
Timestamp	06/09/2024 12:29
Severity	High
Priority	Low
Assignee	Dharya
Screenshot	
Expected Results	Punched in time duration should match the punched in time for today(Friday) in vertical bar (22.67)
Actual Results	Punched in time duration is showing 5315h 26m which is not equal to punched in time for today(Friday) in vertical bar (22.67)