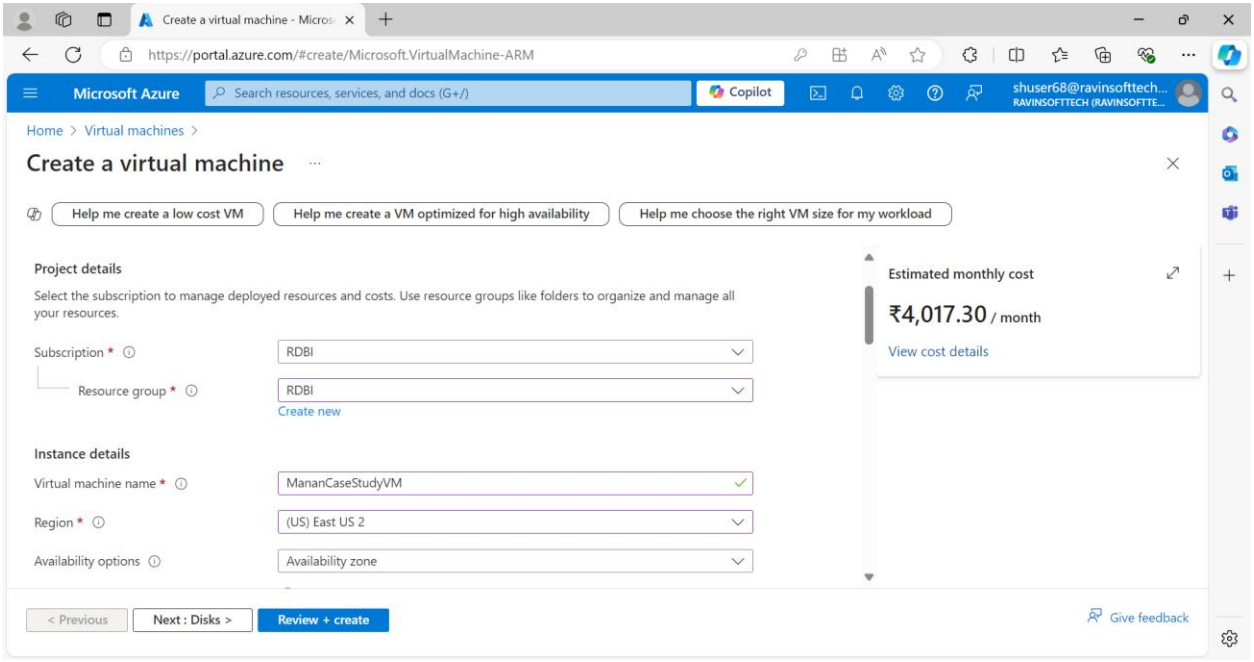
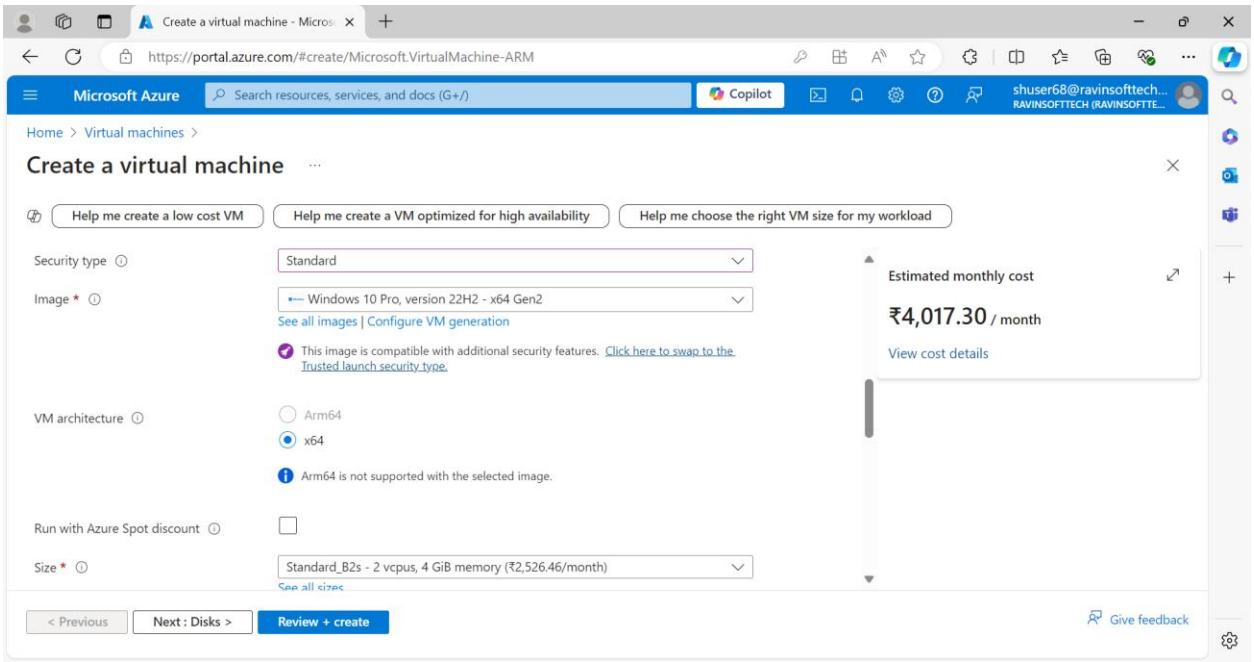
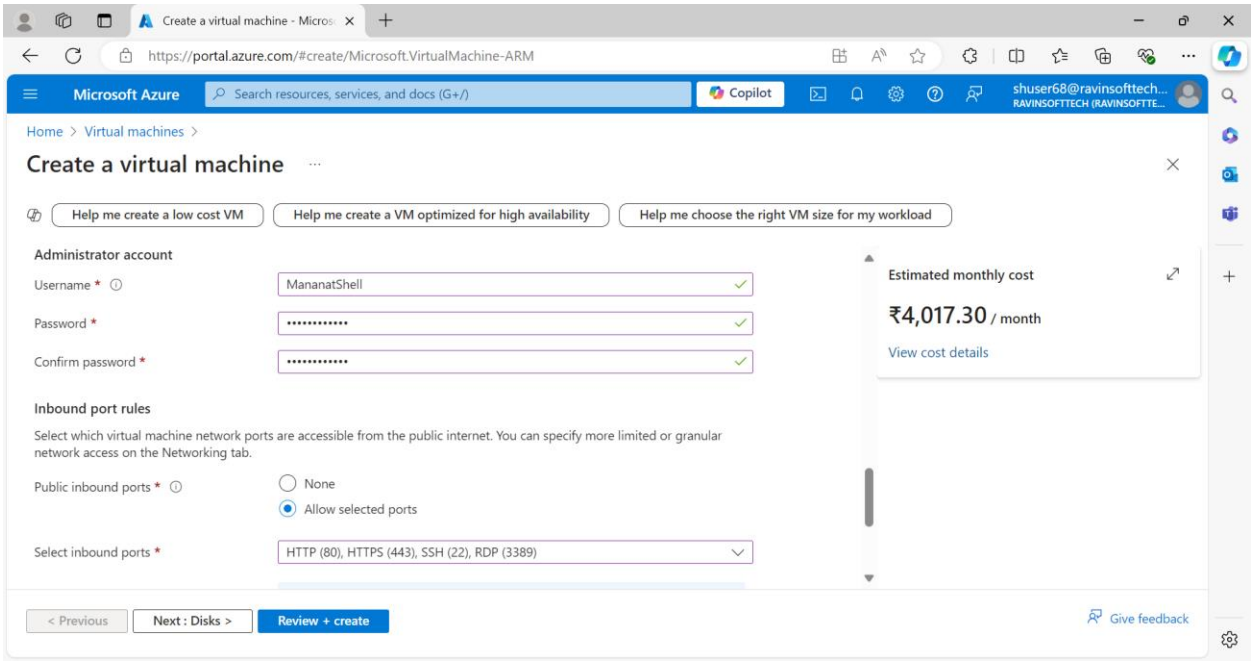
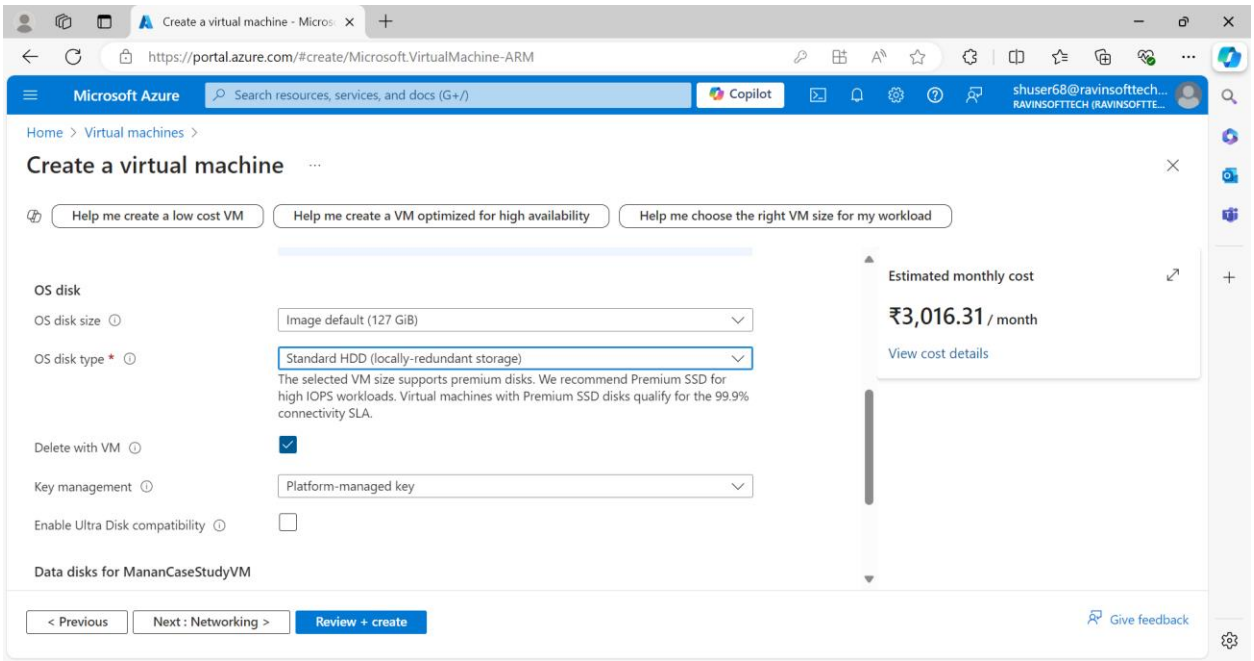
Manan Chathli (INMCMU) Case Study – Unext Foundational Bootcamp

1) Setting up the VM via Azure with specified configuration






Create a virtual machine - Micros
https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
shuser68@ravinsofttech...
RAVINSOFTTECH (RAVINSOFTTE...
Home > Virtual machines >
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 *
MananatShell
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 *
None
Allow selected ports
Select inbound ports *
HTTP (80), HTTPS (443), SSH (22), RDP (3389)
Estimated monthly cost
₹4,017.30 / month
View cost details
< Previous
Next : Disks >
Review + create
Give feedback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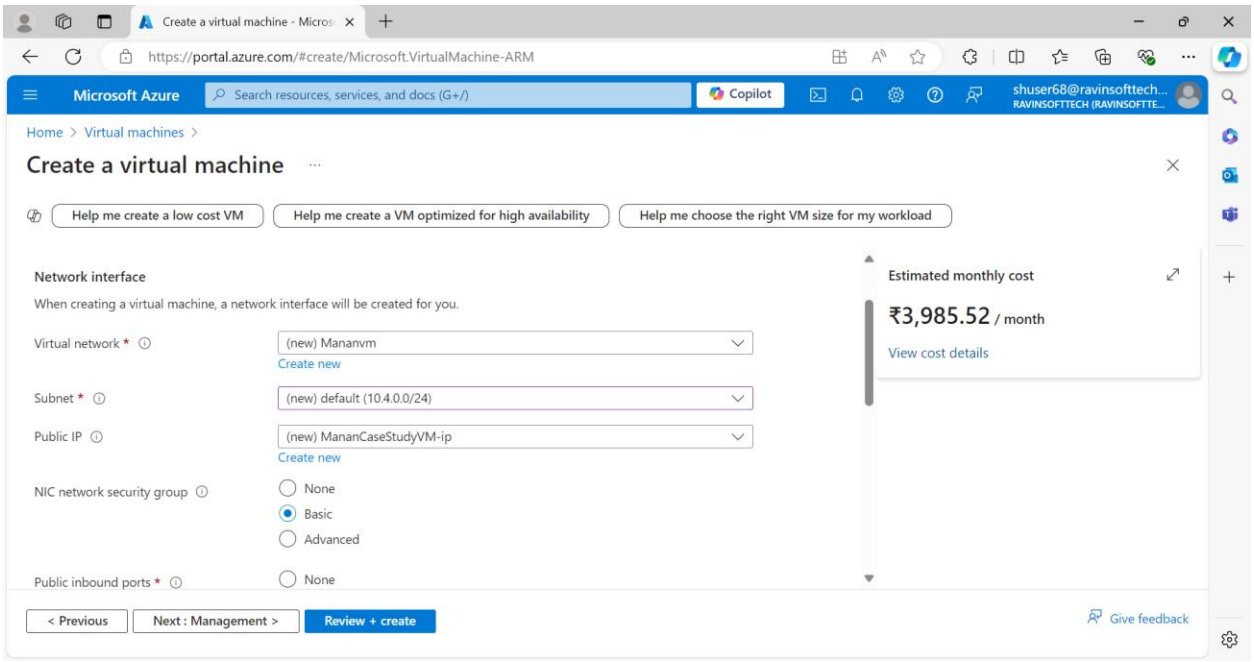
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
shuser68@ravinsofttech...
RAVINSOFTTECH (RAVINSOFTTE...
Home > Virtual machines >
Create a virtual machine
Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
OS disk
OS disk size
Image default (127 GiB)
OS disk type *
Standard HDD (locally-redundant storage)
The selected VM size supports premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA.
Delete with VM
Key management
Platform-managed key
Enable Ultra Disk compatibility
Data disks for MananCaseStudyVM
Estimated monthly cost
₹3,016.31 / month
View cost details
< Previous
Next : Networking >
Review + create
Give feedback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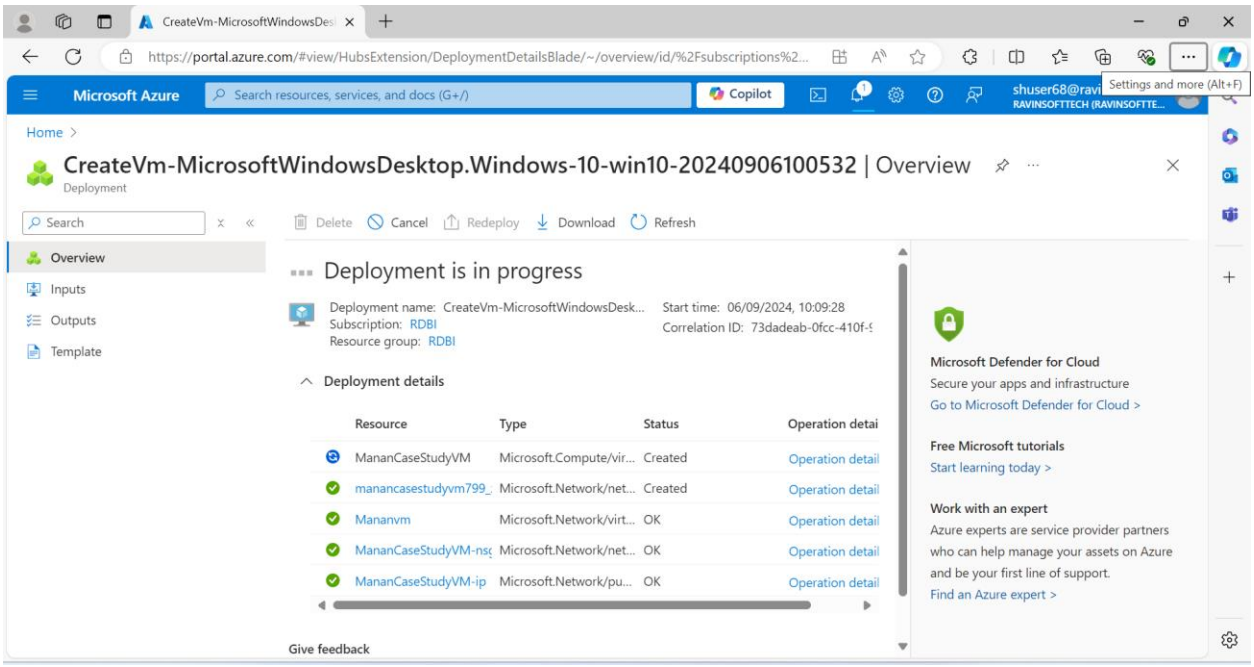
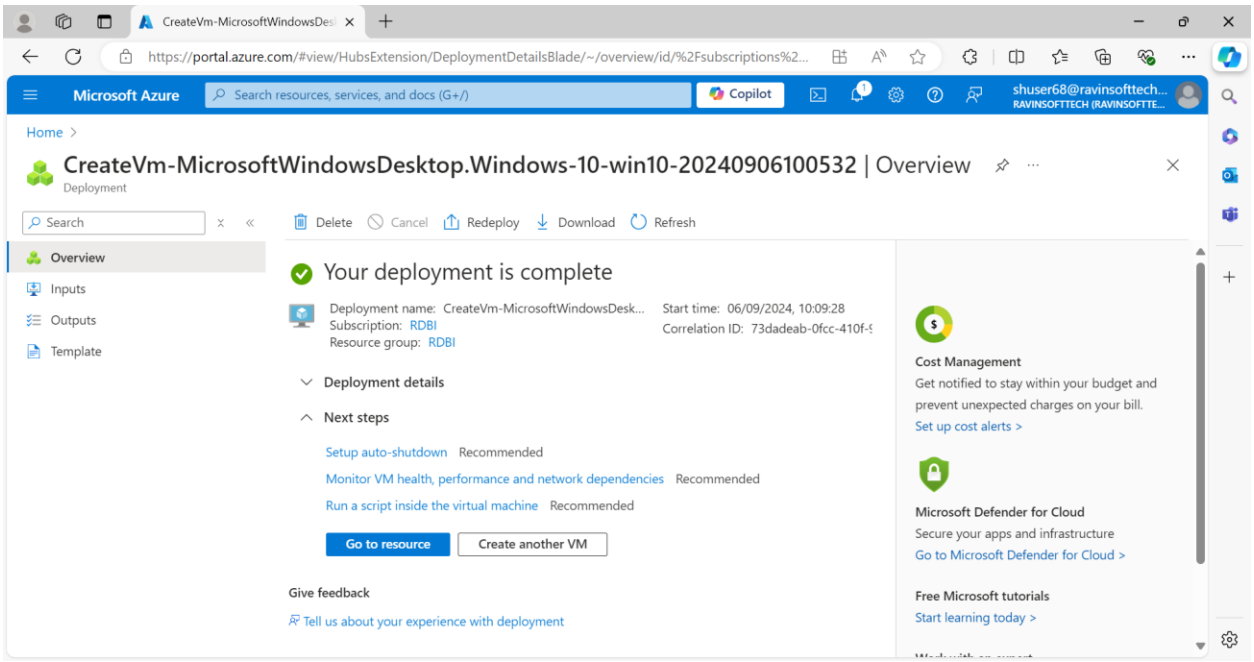
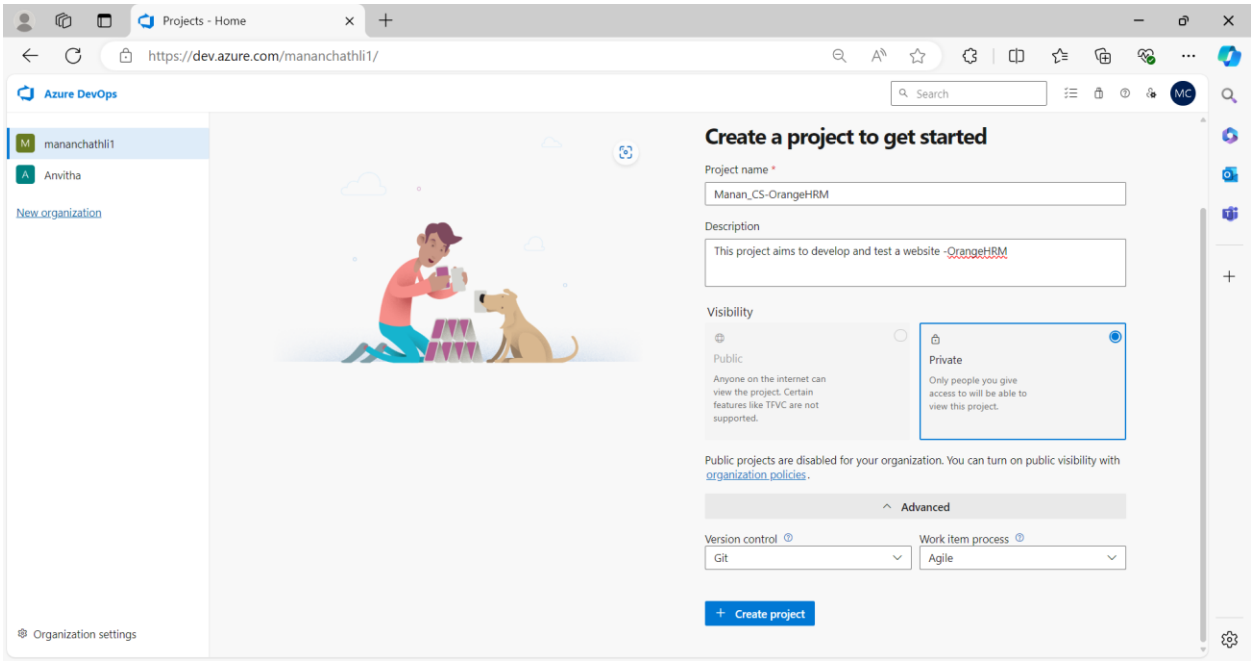
https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
shuser68@ravinsofttech...
RAVINSOFTTECH (RAVINSOFTTE...
Home > Virtual machines >
Create a virtual machine
Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
Network interface
When creating a virtual machine, a network interface will be created for you.
Virtual network *
(new) Mananvm
Create new
Subnet *
(new) default (10.4.0.0/24)
Public IP
(new) MananCaseStudyVM-ip
Create new
NIC network security group
None
Basic
Advanced
Public inbound ports *
None
Estimated monthly cost
₹3,985.52 / month
View cost details
< Previous
Next : Management >
Review + create
Give feedback


CreateVm-MicrosoftWindowsDes
https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2...
Settings and more (Alt+F)
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
shuser68@ravi
RAVINSOFTTECH (RAVINSOFTTE...
Home >
CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20240906100532 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Deployment is in progress
Deployment name: CreateVm-MicrosoftWindowsDesk...
Subscription: RDBI
Resource group: RDBI
Start time: 06/09/2024, 10:09:28
Correlation ID: 73dadeab-0fcc-410f-
Deployment details
Resource
Type
Status
Operation detai
MananCaseStudyVM
Microsoft.Compute/vir...
Created
Operation detail
manancasestudyvm799_
Microsoft.Network/net...
Created
Operation detail
Mananvm
Microsoft.Network/virt...
OK
Operation detail
MananCaseStudyVM-nsg
Microsoft.Network/net...
OK
Operation detail
MananCaseStudyVM-ip
Microsoft.Network/pu...
OK
Operation detail
Give feedback
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >

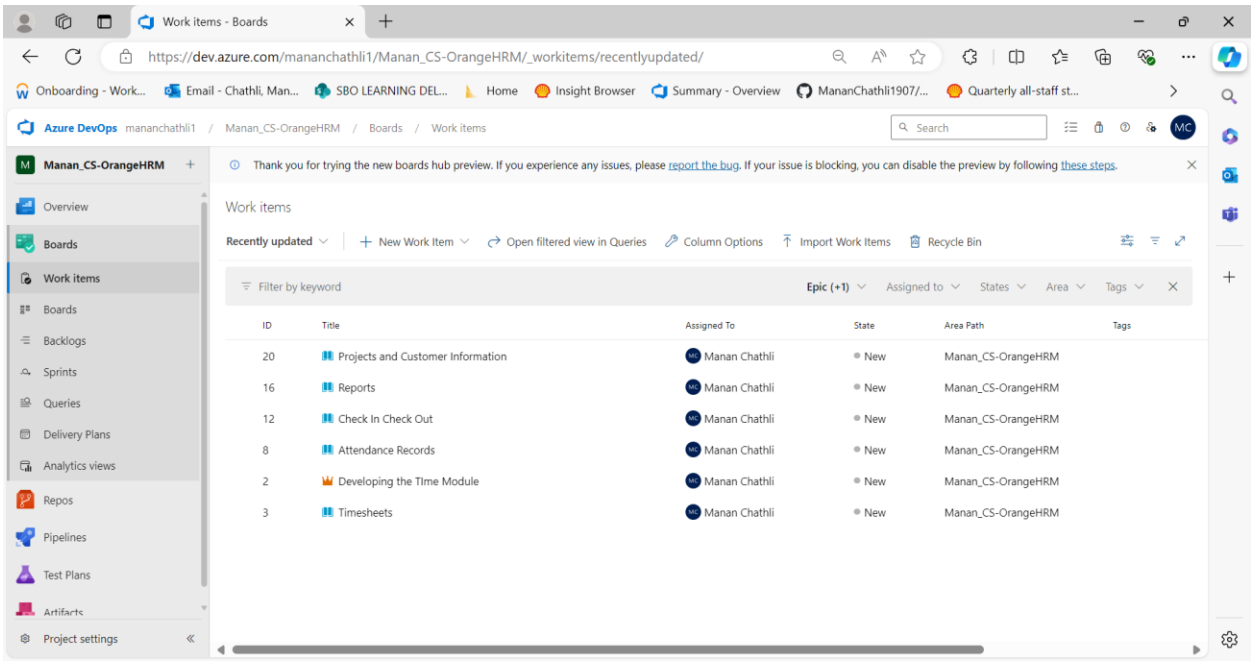

CreateVm-MicrosoftWindowsDes
https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2...
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
shuser68@ravinsofttech...
RAVINSOFTTECH (RAVINSOFTTE...
Home
CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20240906100532 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: CreateVm-MicrosoftWindowsDesk...
Subscription: RDBI
Resource group: RDBI
Start time: 06/09/2024, 10:09:28
Correlation ID: 73dadeab-0fcc-410f-
Deployment details
Next steps
Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended
Go to resource
Create another VM
Give feedback
Tell us about your experience with deployment
Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >

2) Making the sprints, user stories, test cases and bugs for Website Orange HRM / Time

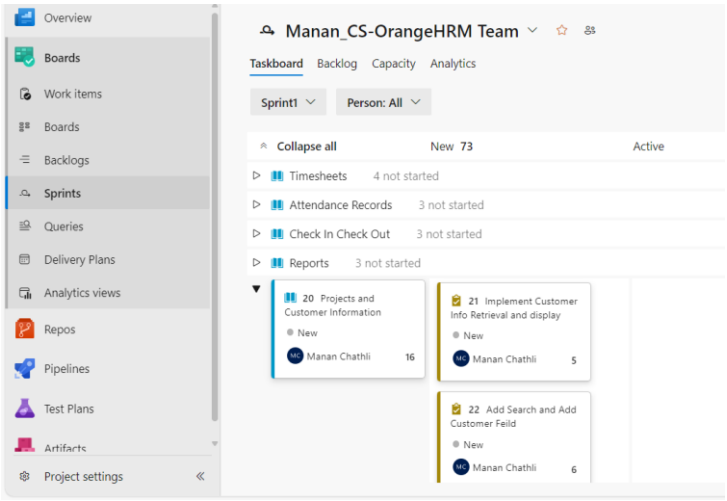
Creating a project in Azure Devops



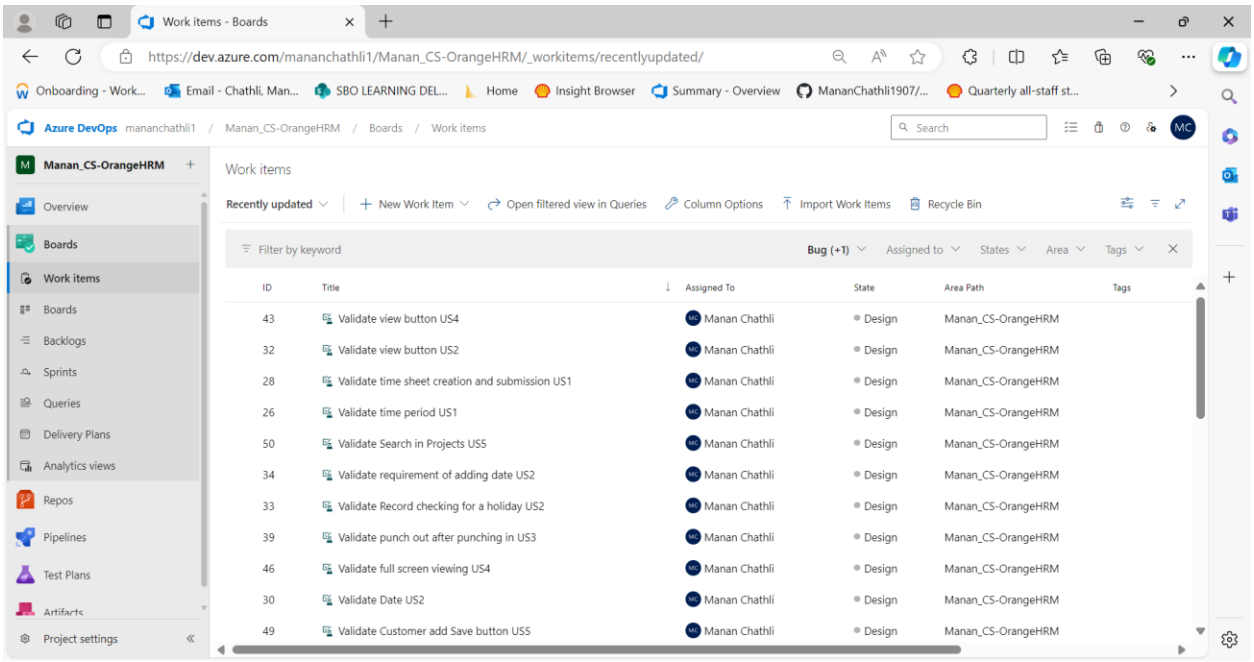
This project includes one epic and five user stories. The epic focuses on the Time Module of the website, and the five user stories cover the following functionalities: timesheets, attendance records, check-in/check-out, reports, and customer and project information.



Each user story consists of 3-4 tasks. The developer tasks are assigned to Manan, while the testing tasks, along with their respective durations, remain unassigned.



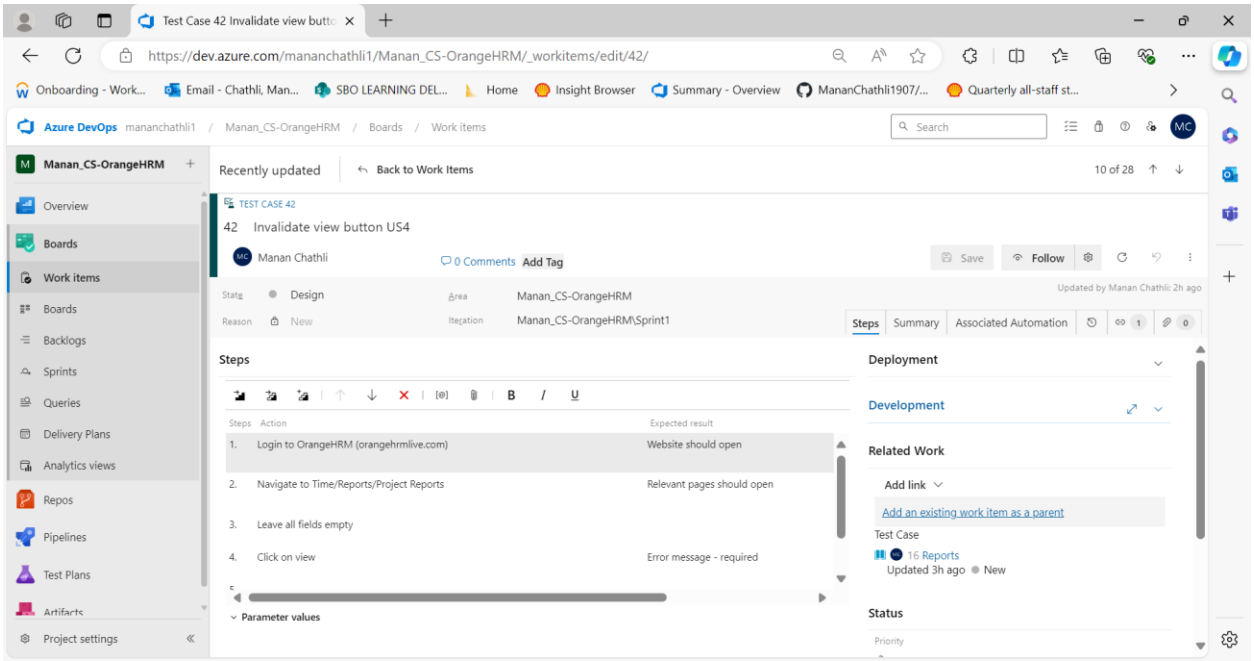
25 test cases have been defined, with 5 for each user story, covering various aspects of functionality.

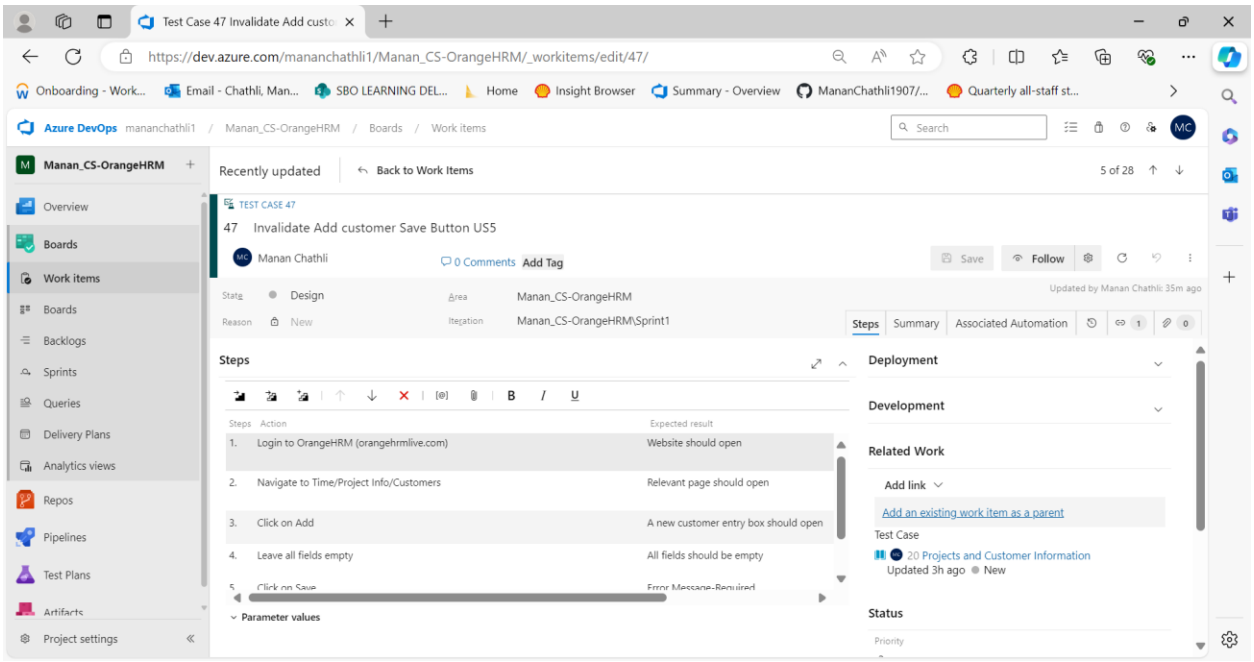


Some bugs were also identified

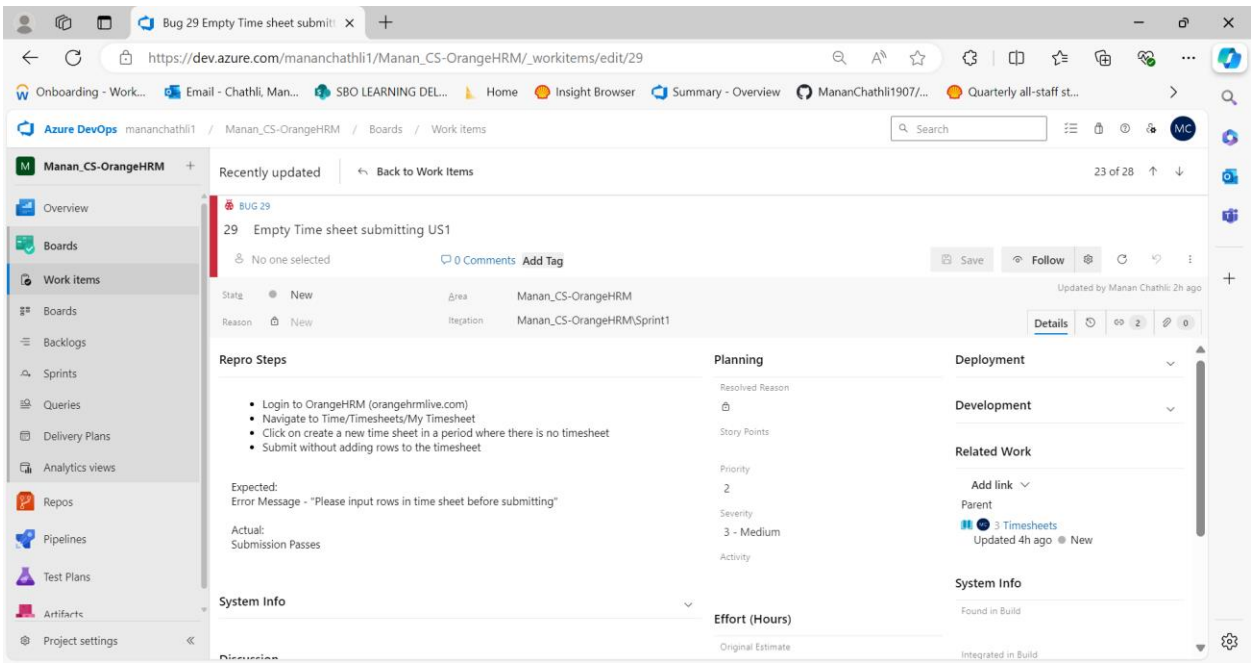
29	Empty Time sheet submitting US1	Unassigned	New	Manan_CS-OrangeHRM
40	Date is accepting a future date for punch in	Unassigned	New	Manan_CS-OrangeHRM
41	Cant punch out if entered a prev date than punch in	Unassigned	New	Manan_CS-OrangeHRM

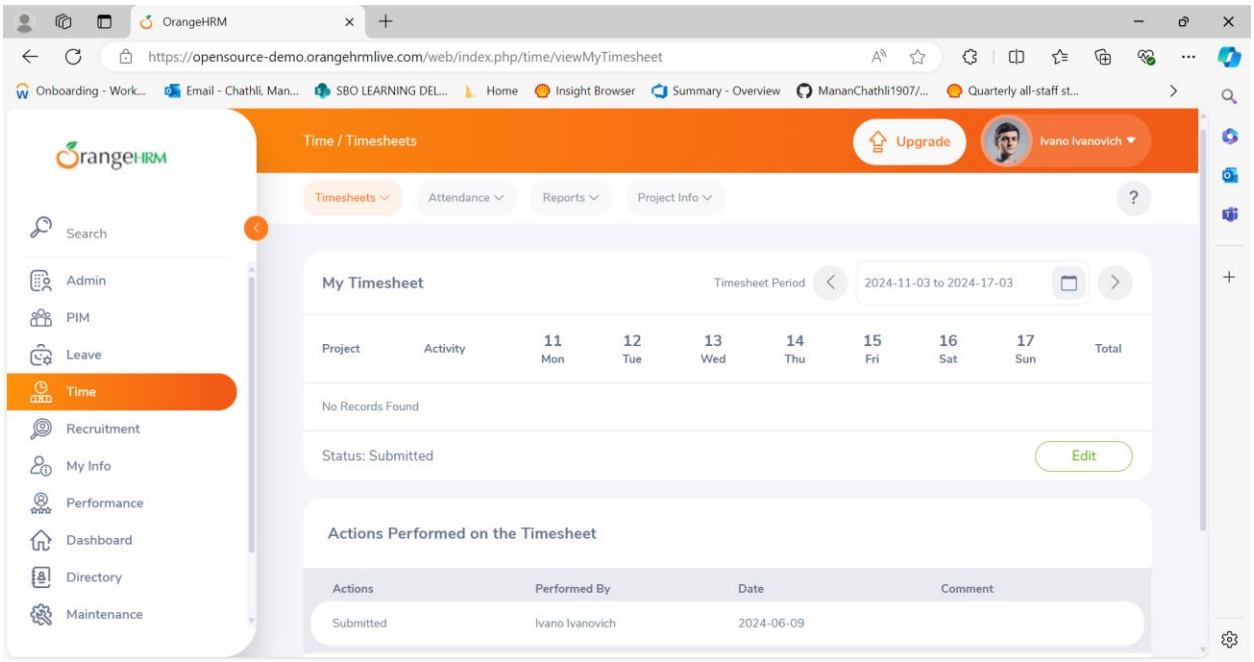
Some example of test case:

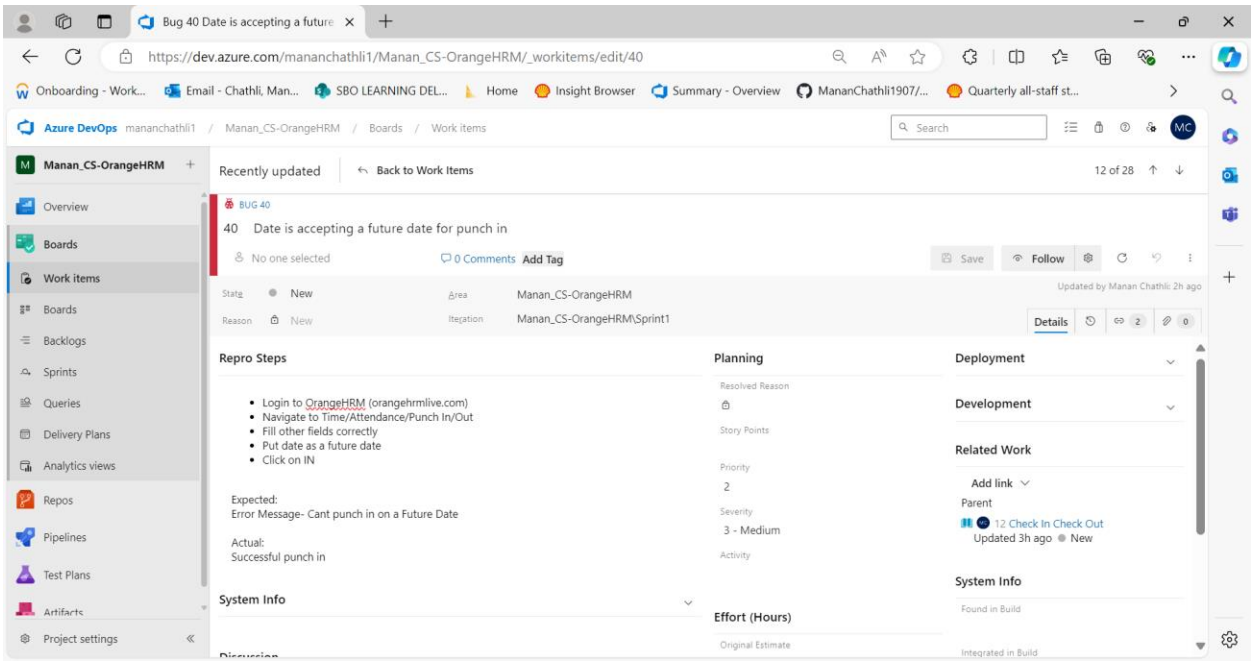


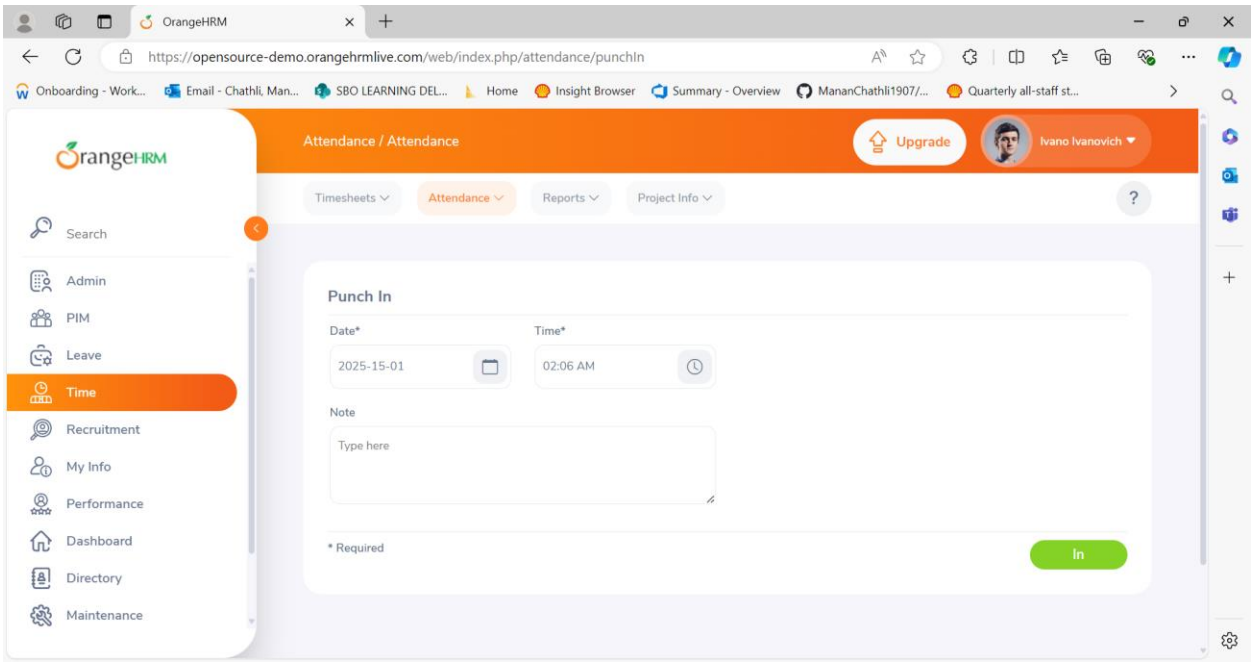


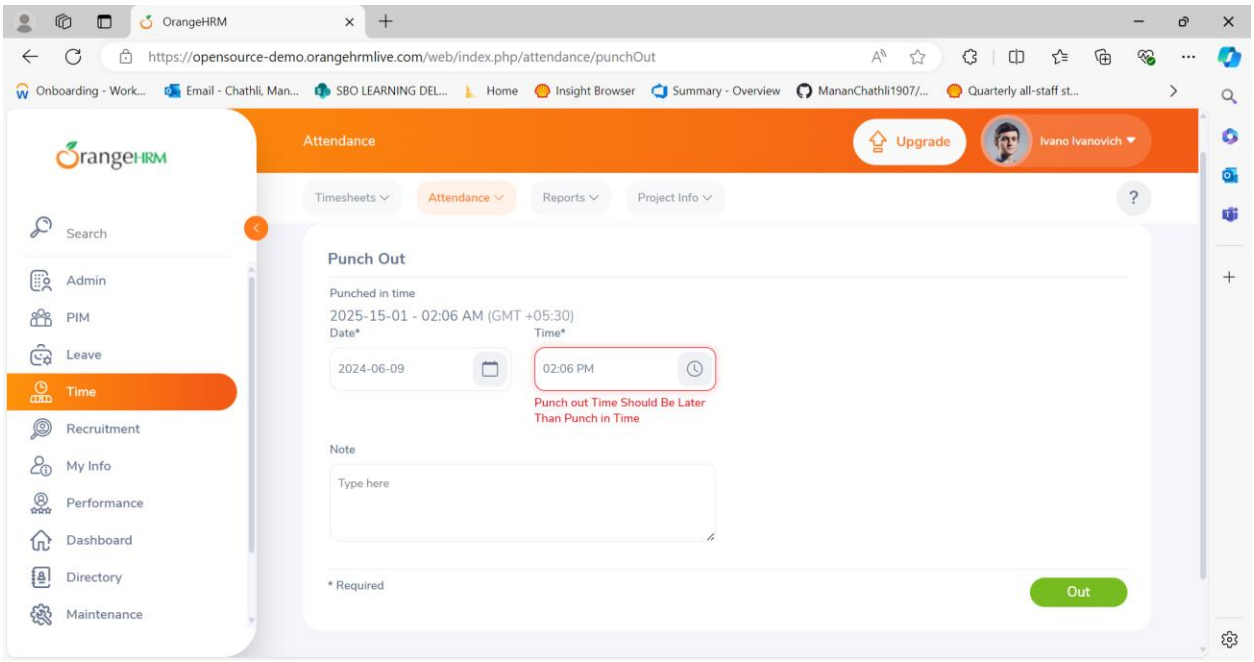
Example of Bugs:




OrangeHRM
https://opensource-demo.orangehrmlive.com/web/index.php/time/viewMyTimesheet
Onboarding - Work...
Email - Chathli, Man...
SBO LEARNING DEL...
Home
Insight Browser
Summary - Overview
MananChathli1907/...
Quarterly all-staff st...
OrangeHRM
Time / Timesheets
Upgrade
Ivano Ivanovich
Timesheets
Attendance
Reports
Project Info
Search
Admin
PIM
Leave
Time
Recruitment
My Info
Performance
Dashboard
Directory
Maintenance
My Timesheet
Timesheet Period
2024-11-03 to 2024-17-03
Project
Activity
11 Mon
12 Tue
13 Wed
14 Thu
15 Fri
16 Sat
17 Sun
Total
No Records Found
Status: Submitted
Edit
Actions Performed on the Timesheet
Actions
Performed By
Date
Comment
Submitted
Ivano Ivanovich
2024-06-09


Bug 40 Date is accepting a future
https://dev.azure.com/mananchathli1/Manan_CS-OrangeHRM/_workitems/edit/40
Azure DevOps
Manan_CS-OrangeHRM
Recently updated
Back to Work Items
12 of 28
BUG 40
40 Date is accepting a future date for punch in
Repro Steps
Login to OrangeHRM (orangehrmlive.com)
Navigate to Time/Attendance/Punch In/Out
Fill other fields correctly
Put date as a future date
Click on IN
Expected:
Error Message- Cant punch in on a Future Date
Actual:
Successful punch in
Planning
Deployment
Development
Related Work
System Info
Effort (Hours)


OrangeHRM
https://opensource-demo.orangehrmlive.com/web/index.php/attendance/punchIn
Attendance / Attendance
Upgrade
Ivano Ivanovich
Timesheets
Attendance
Reports
Project Info
Search
Admin
PIM
Leave
Time
Recruitment
My Info
Performance
Dashboard
Directory
Maintenance
Punch In
Date*
2025-15-01
Time*
02:06 AM
Note
Type here
* Required
In


OrangeHRM
https://opensource-demo.orangehrmlive.com/web/index.php/attendance/punchOut
Onboarding - Work...
Email - Chathli, Man...
SBO LEARNING DEL...
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OrangeHRM
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Upgrade
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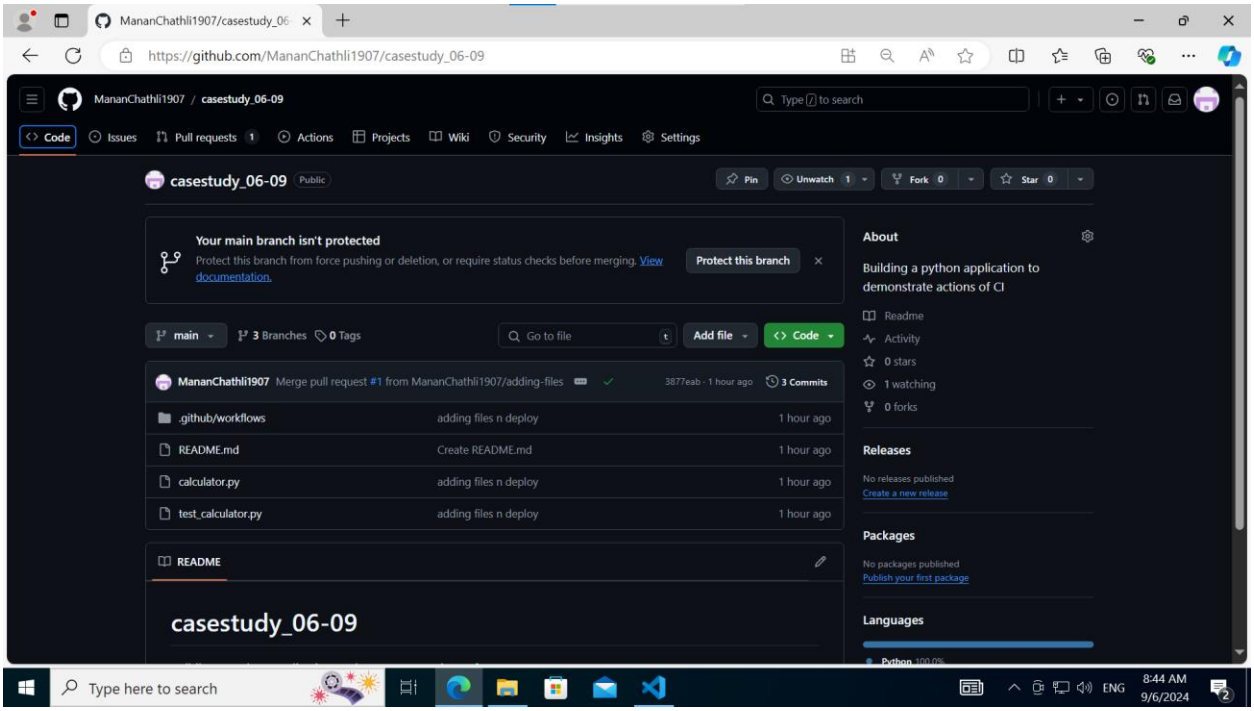
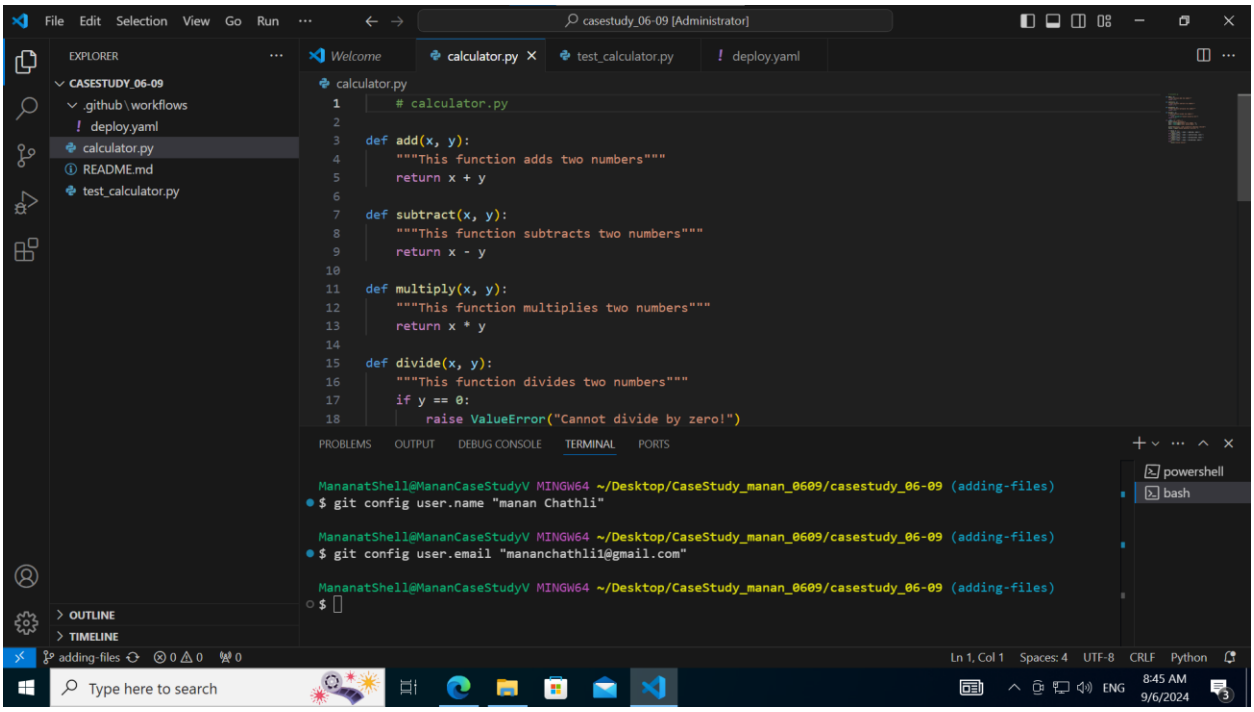
Reports
Project Info
Search
Admin
PIM
Leave
Time
Recruitment
My Info
Performance
Dashboard
Directory
Maintenance
Punch Out
Punched in time
2025-15-01 - 02:06 AM (GMT +05:30)
Date*
2024-06-09
Time*
02:06 PM
Punch out Time Should Be Later Than Punch in Time
Note
Type here
* Required
Out

3) Implement CI/CD using Github Actions

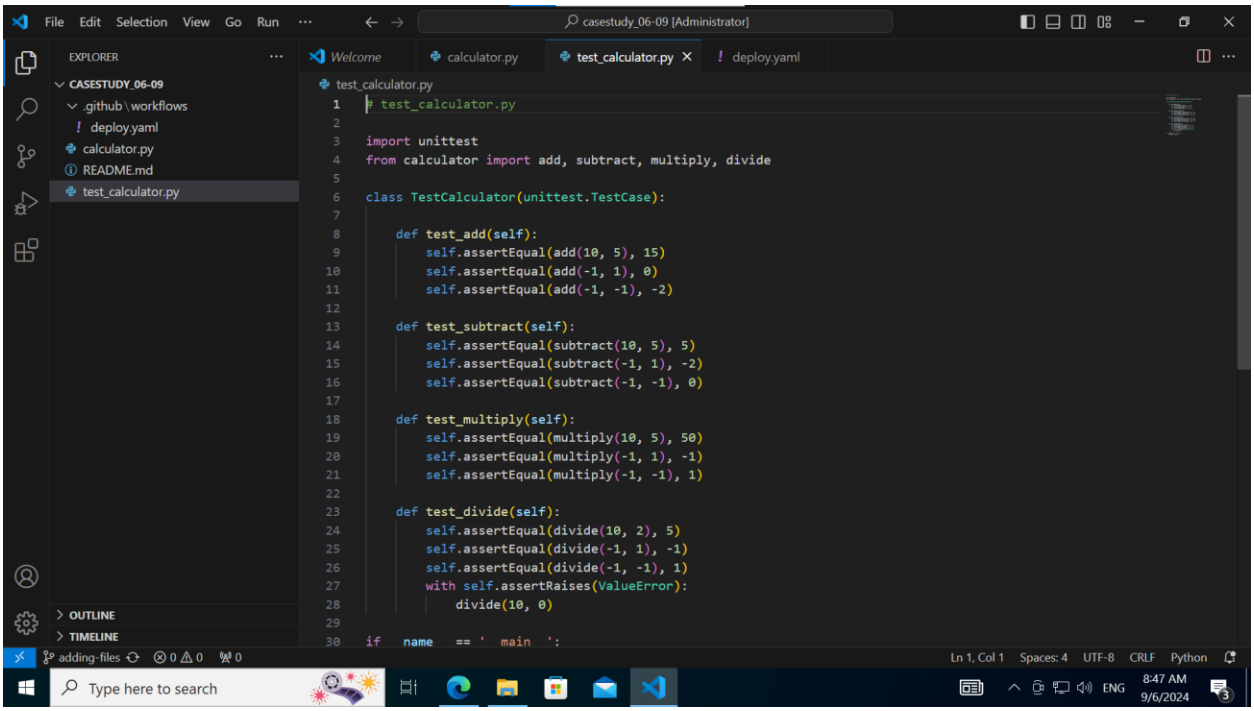
Made a new repository, casestudy_0609 to implement this github actions



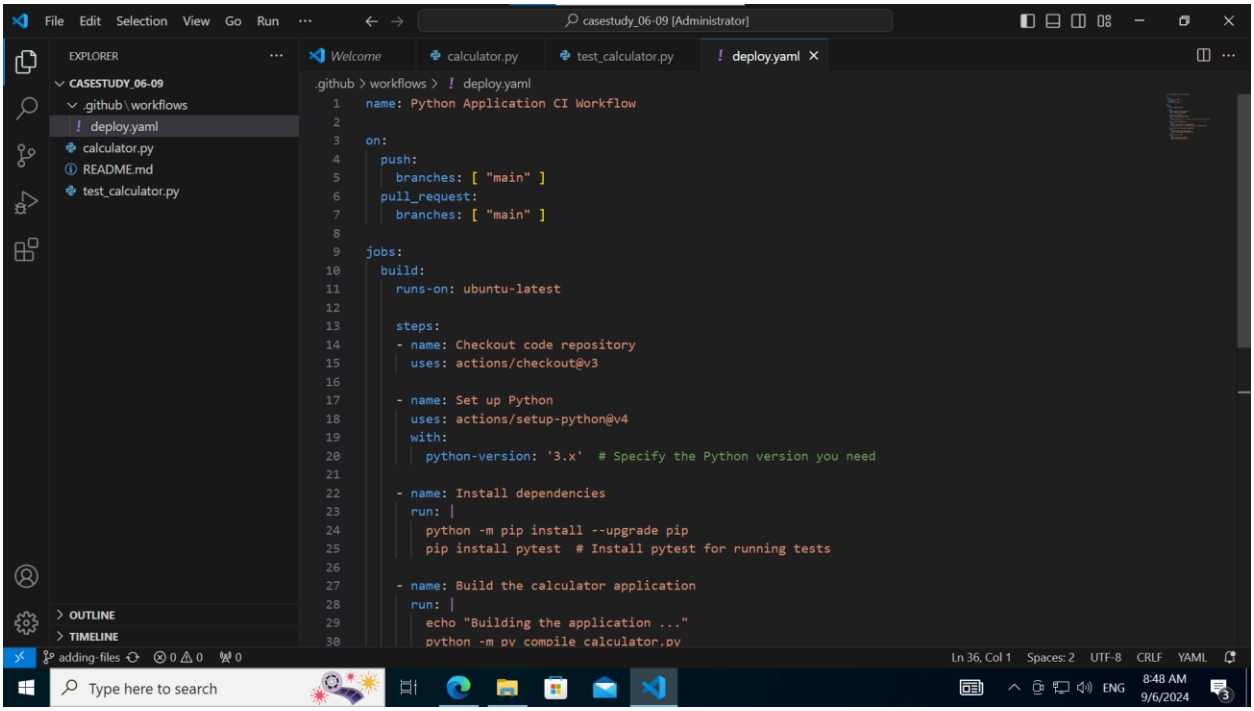
Cloned repository in VS Code, Created a branch and added files like calculator.py



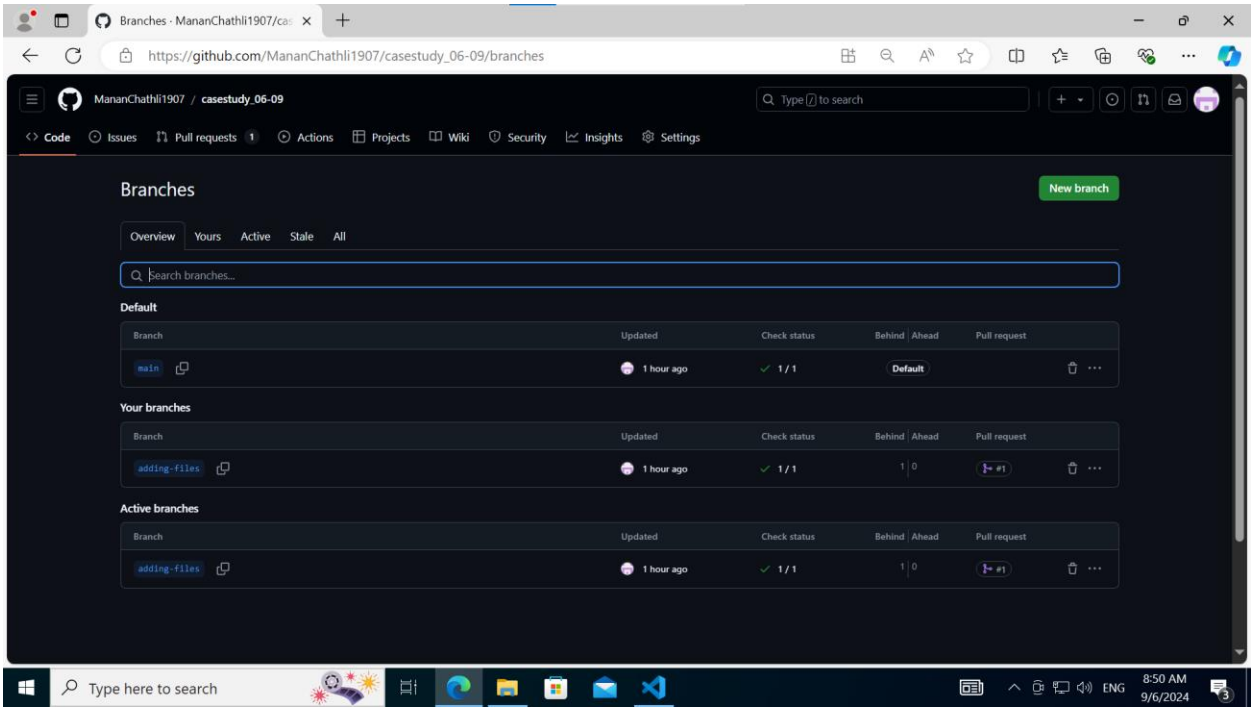
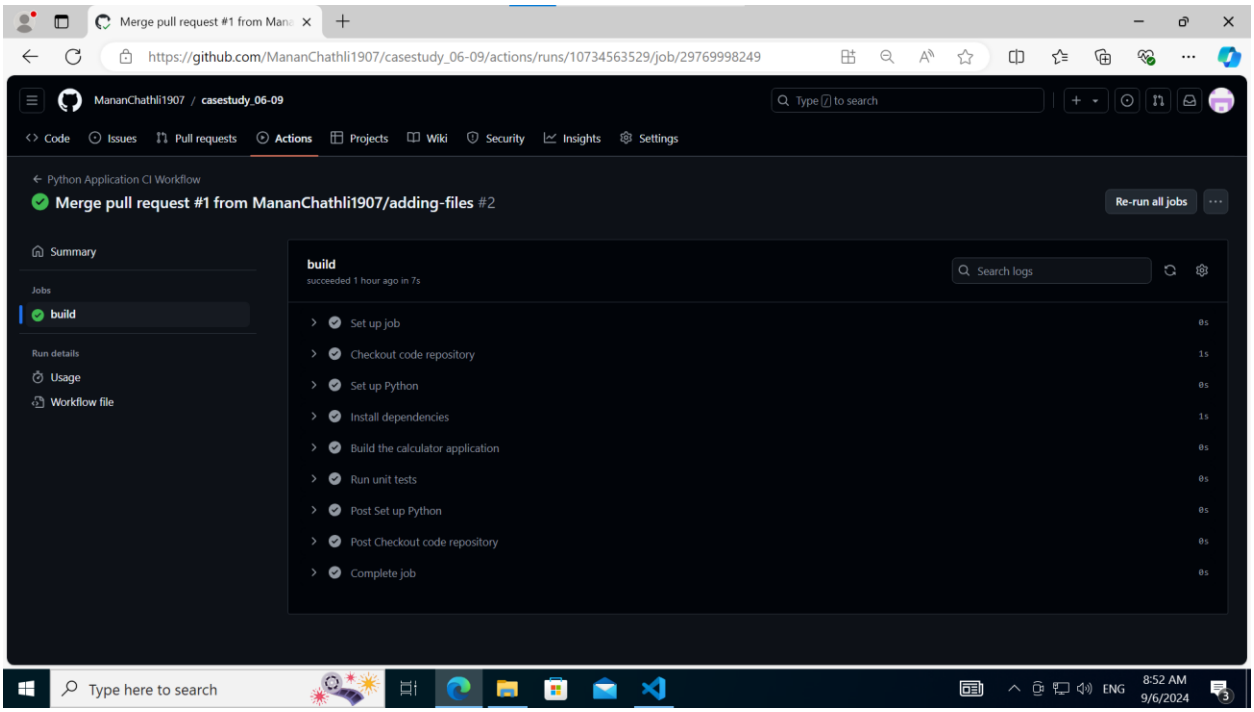
Added Unit test file test_calculator.py



Added Deploy.yaml



Pushed branches into github and merged with main



Using Github actions implemented CI