

EXP NO: 1

AZURE DEVOPS ENVIRONMENT SETUP

Aim:

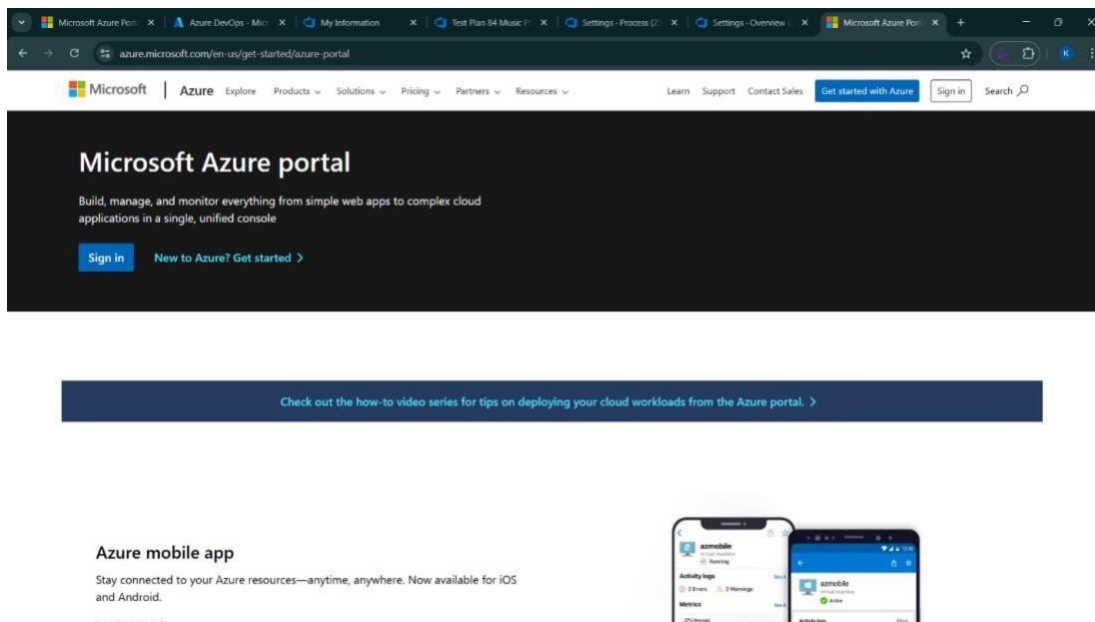
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

INSTALLATION

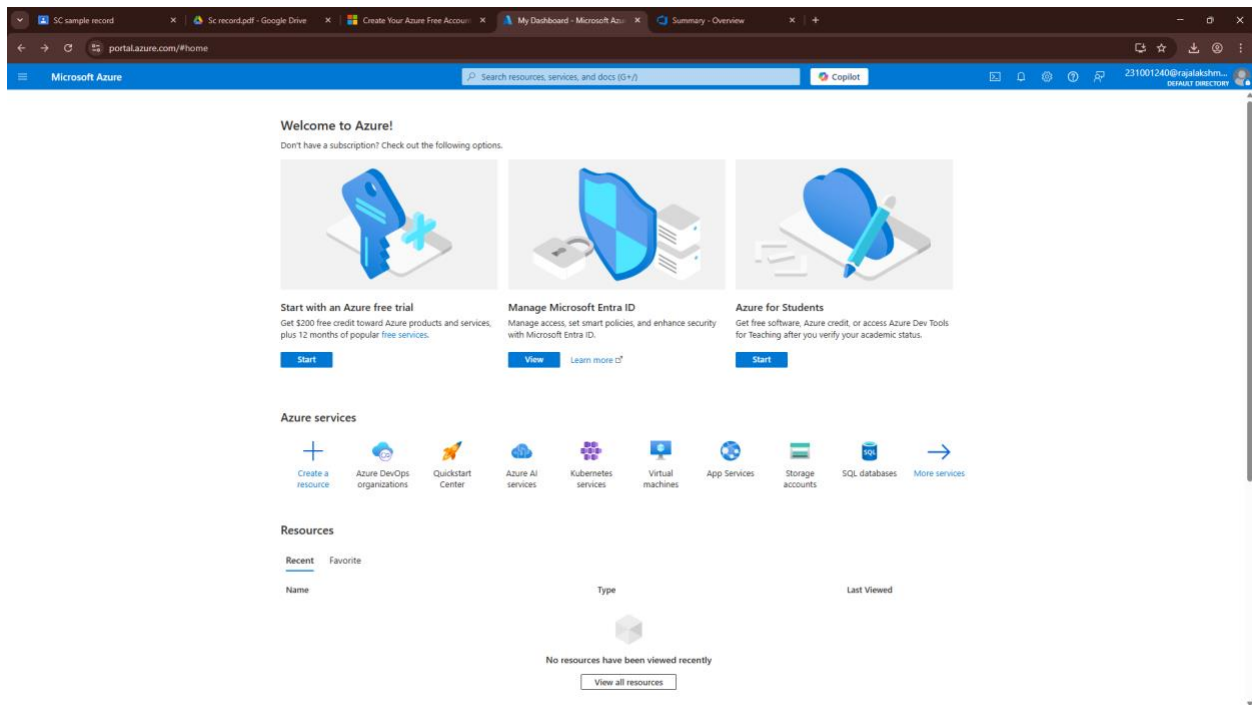
1. Open your web browser and go to the Azure website: <https://azure.microsoft.com/en-us/get-started/azure-portal>.

Sign in using your Microsoft account credentials.

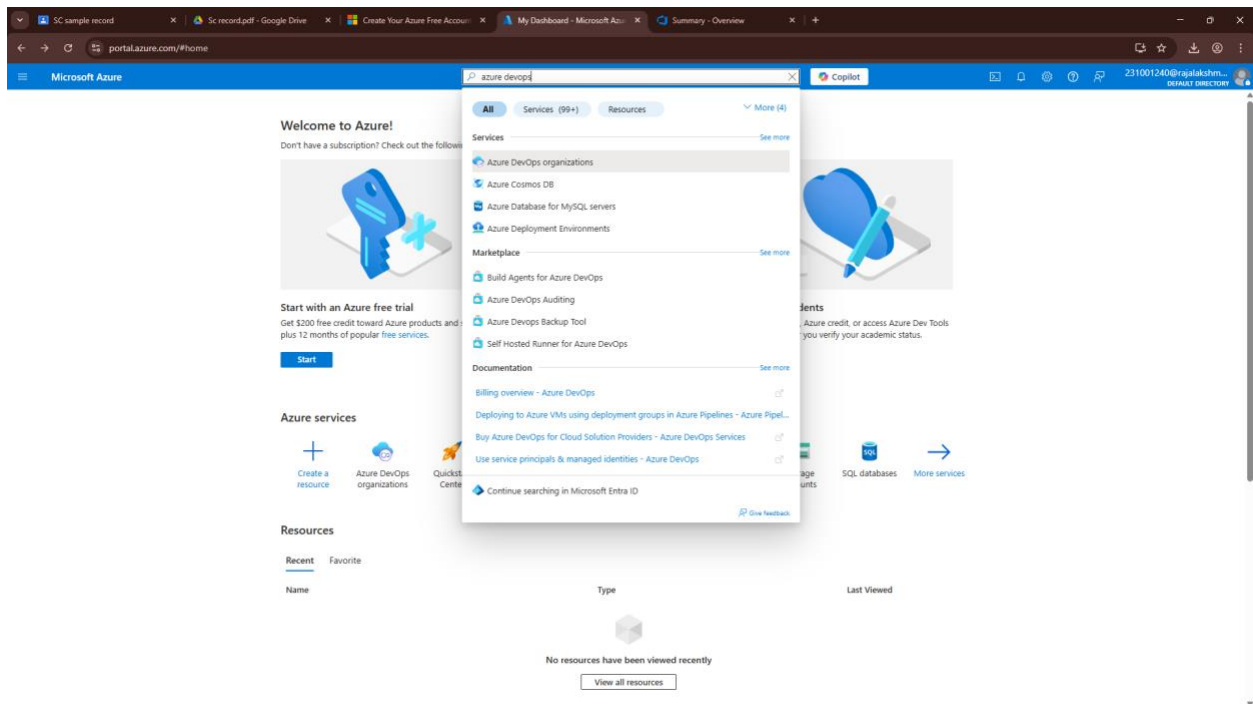
If you don't have a Microsoft account, you can create one here: <https://signup.live.com/?lic=1>



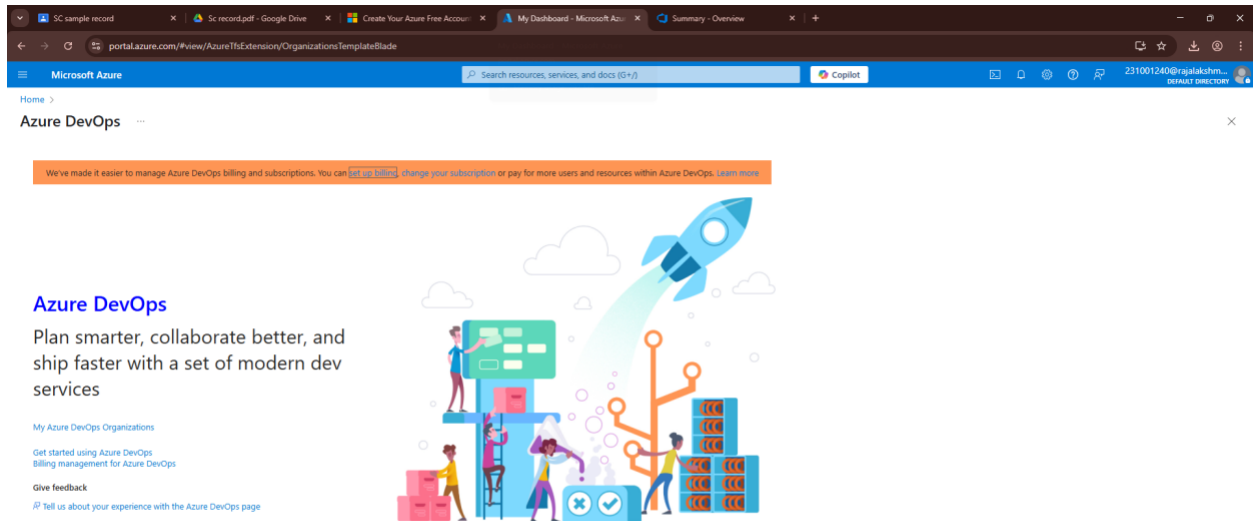
2. Azure home page



3. Open DevOps environment in the Azure platform by typing *Azure DevOps Organizations* in the search bar.



4. Click on the *My Azure DevOps Organization* link and create an organization and you should be taken to the Azure DevOps Organization Home page.



Result:

Successfully accessed the Azure DevOps environment and created a new organization through the Azure portal.

2116231001228

CS23432

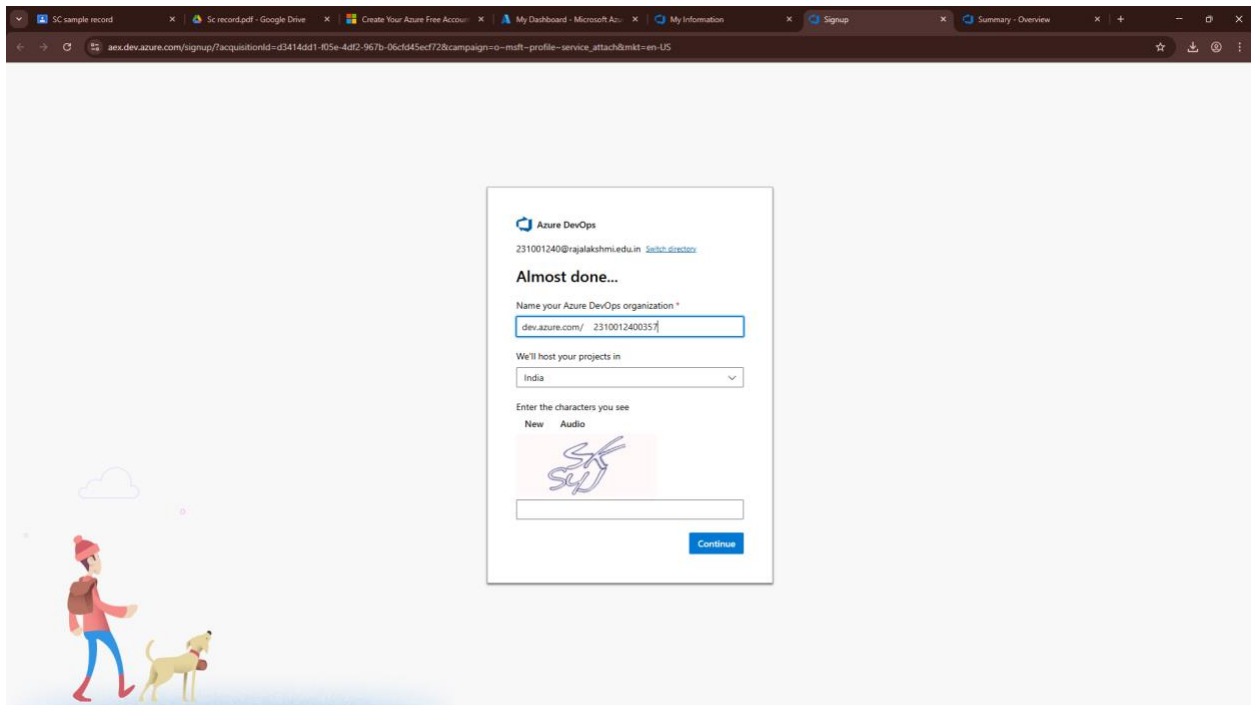
EXP NO: 2

AZURE DEVOPS PROJECT SETUP AND USER STORY MANAGEMENT

Aim:

To set up an Azure DevOps project for efficient collaboration and agile work management.

1. Create An Azure Account



2. Create the First Project in Your Organization

- After the organization is set up, you'll need to create your first **project**. This is where you'll begin to manage code, pipelines, work items, and more.
- On the organization's **Home page**, click on the **New Project** button.
- Enter the project name, description, and visibility options:
 - Name:** Choose a name for the project (e.g., **LMS**).
 - Description:** Optionally, add a description to provide more context about the project.
 - Visibility:** Choose whether you want the project to be **Private** (accessible only to those invited) or **Public** (accessible to anyone).
- Once you've filled out the details, click **Create** to set up your first project.

Create a project to get started

Project name *

Weather App

Description

Visibility



Public

Anyone on the internet can view the project. Certain features like TFVC are not supported.



Private

Only people you give access to will be able to view this project.

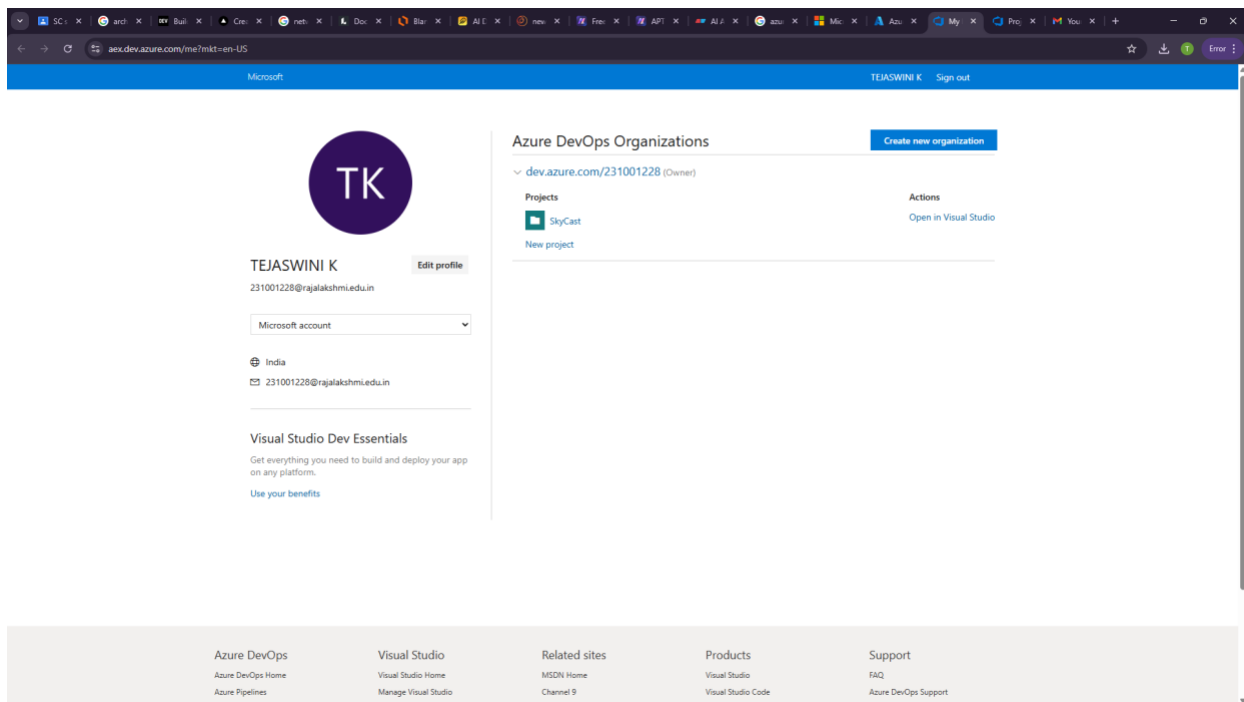


Public projects are disabled for your organization. You can turn on public visibility with [organization policies](#).

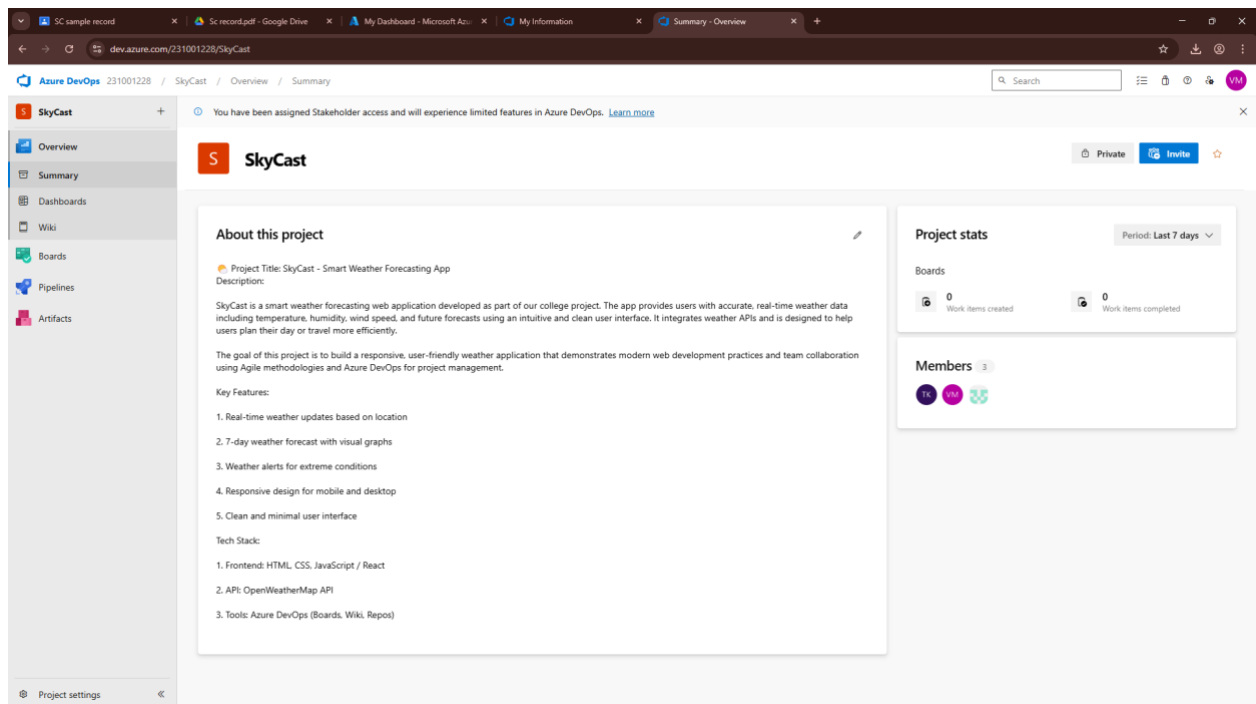
▼ Advanced

+ Create project

3. Once logged in, ensure you are in the correct organization. If you're part of multiple organizations, you can switch between them from the top left corner (next to your user profile). Click on the Organization name, and you should be taken to the Azure DevOps Organization Home page.



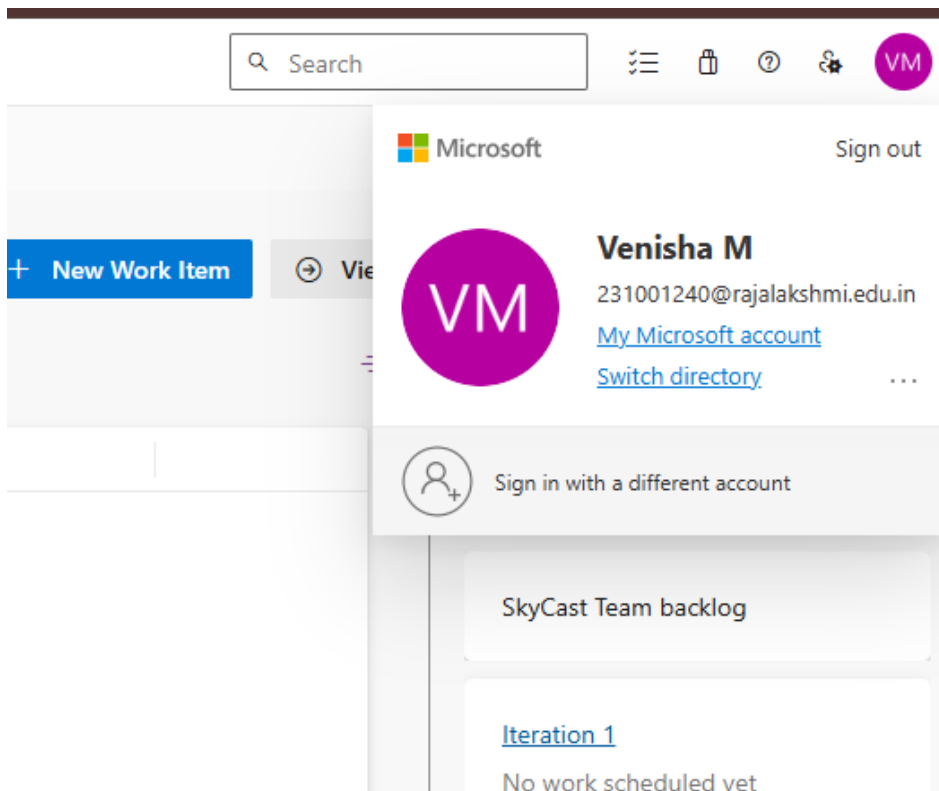
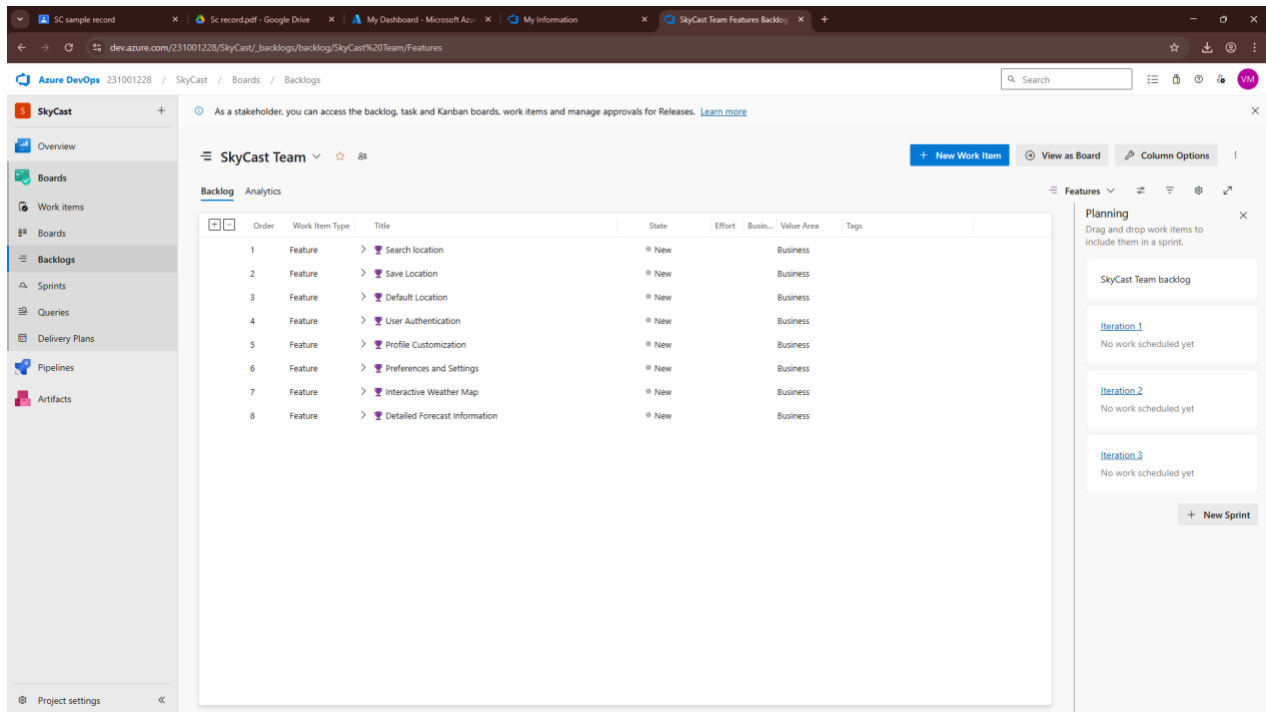
4. Project dashboard



5. To manage user stories:

a. From the **left-hand navigation menu**, click on **Boards**. This will take you to the main **Boards** page, where you can manage work items, backlogs, and sprints.

b. On the **work items** page, you'll see the option to **Add a work item** at the top. Alternatively, you can find a + button or **Add New Work Item** depending on the view you're in. From the **Add a work item** dropdown, select **User Story**. This will open a form to enter details for the new User Story.



Result:

Successfully created an Azure DevOps project with user story management and agile workflow setup.

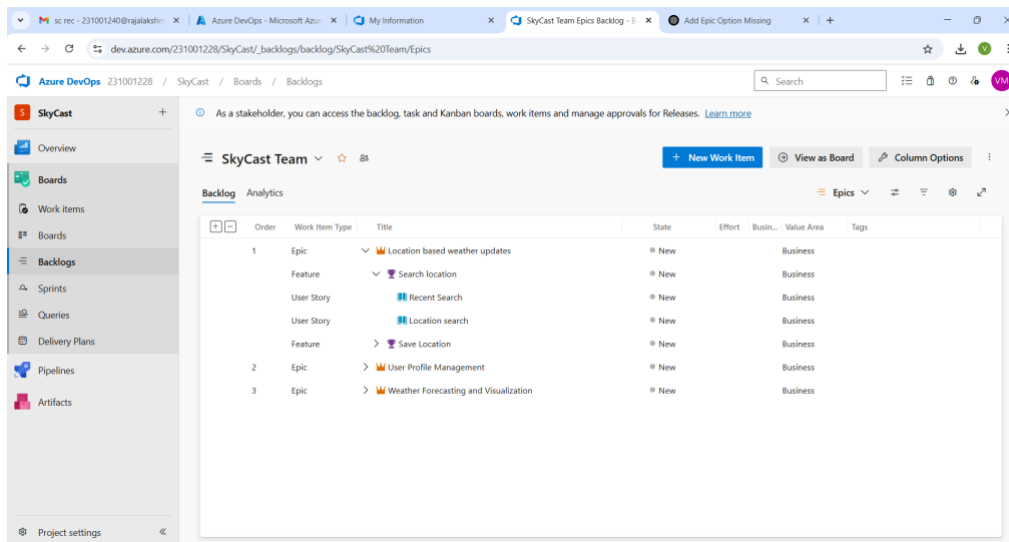
EXP NO: 3

SETTING UP EPICS, FEATURES, AND USER STORIES FOR PROJECT PLANNING

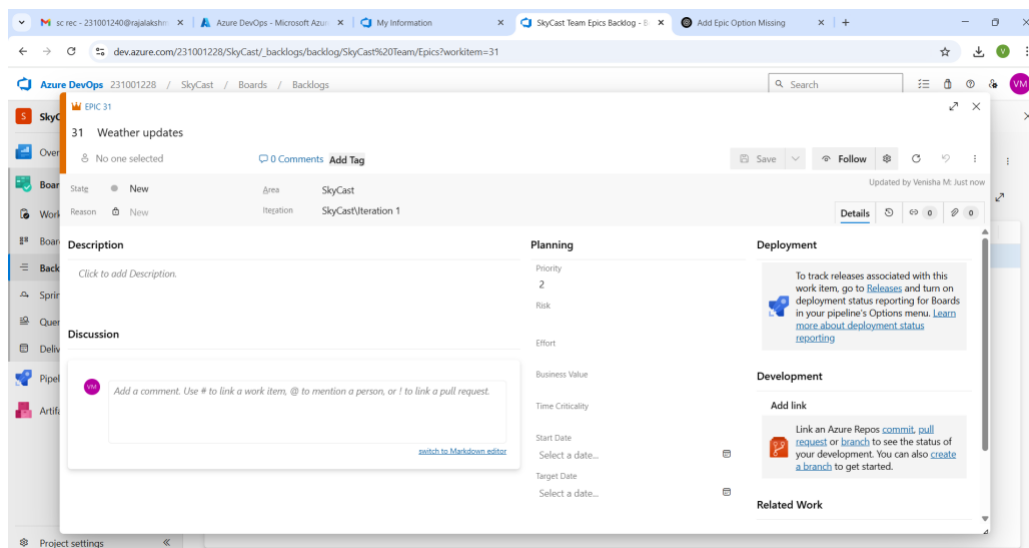
Aim:

To learn about how to create epics, user story, features, backlogs for your assigned project.

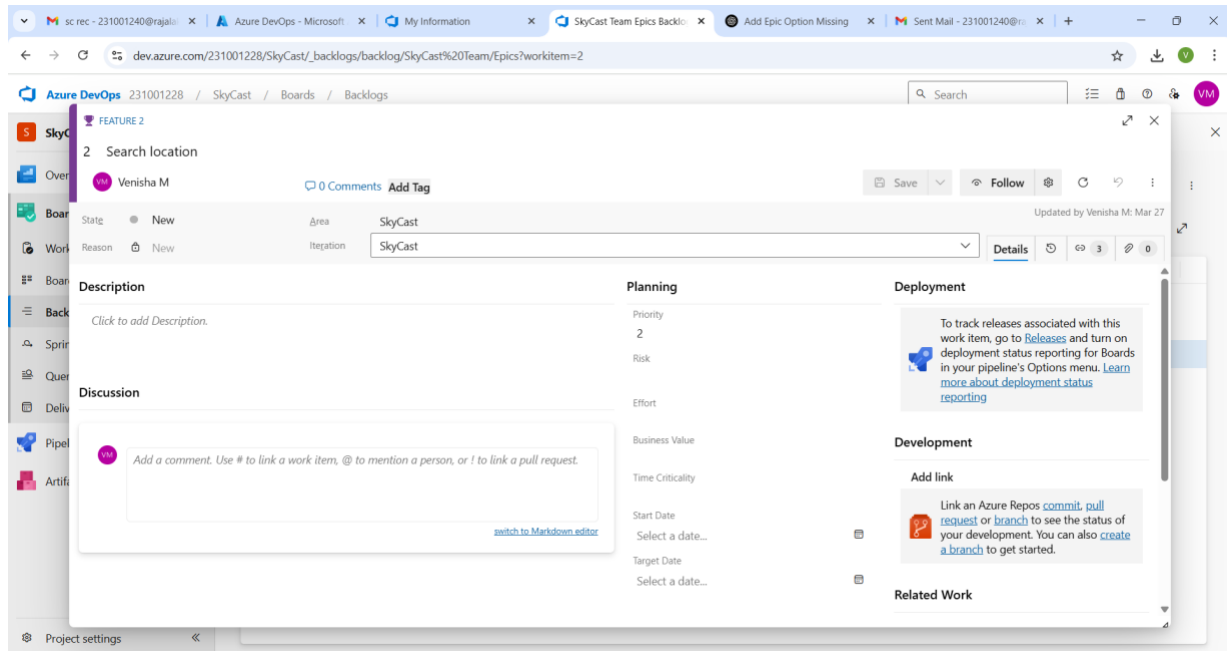
Create Epic, Features, User Stories, Task



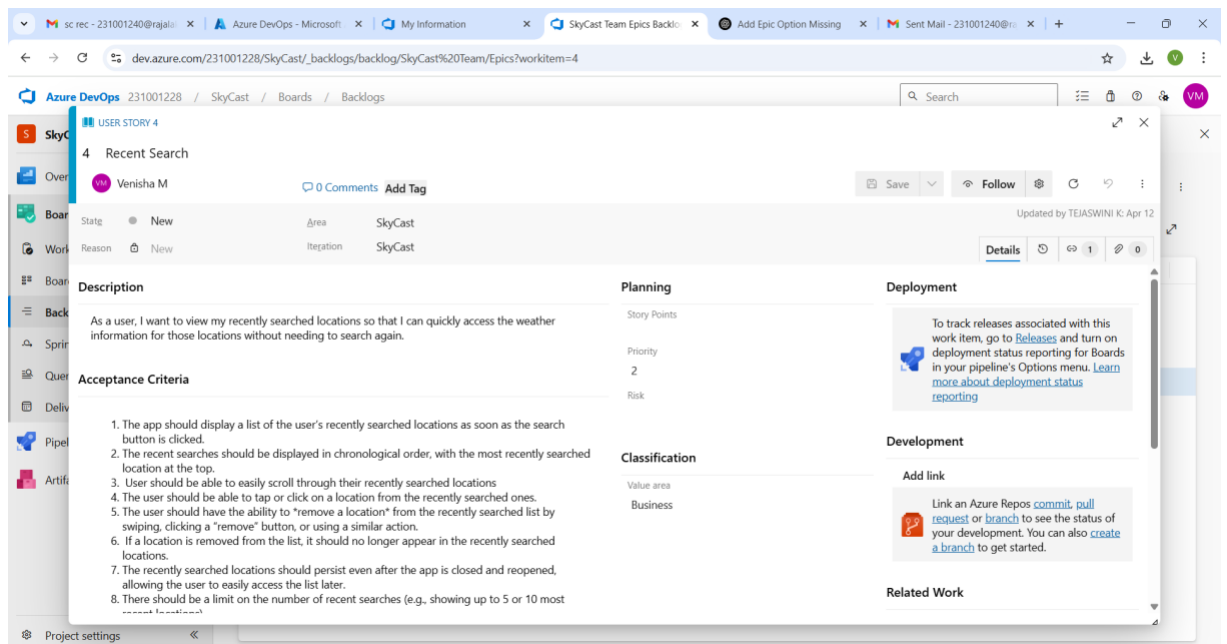
1.Fill in Epics



2.Fill in Features



3.Fill in User Story Details



Result:

Thus, the creation of epics, features, user story and task has been created successfully.

EXP NO: 4

SPRINT PLANNING

Aim:

To assign user story to specific sprint for the Weather Application Project.

Sprint Planning Sprint 1

The screenshot shows the Azure DevOps Sprints board for the SkyCast Team. The left sidebar contains navigation links for Overview, Boards, Work items, Backlogs, Sprints (selected), Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays the Sprints board for Iteration 1, with columns for New, Active, Resolved, and Closed. Two user stories are visible: '3 Location search' assigned to Venisha M and '6 Saved Locations' assigned to Yasawini D. The sprint period is March 12 - March 31, 14 work days.

Sprint 2

The screenshot shows the Azure DevOps Sprints board for the SkyCast Team. The left sidebar contains navigation links for Overview, Boards, Work items, Backlogs, Sprints (selected), Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays the Sprints board for Iteration 2, with columns for New, Active, Resolved, and Closed. Three user stories are visible: '7 Managing Saved Locations' assigned to Yasawini D, '9 Set current location as default' assigned to Yasawini D, and '10 Manually set a default location' assigned to Yasawini D. The sprint period is April 1 - April 19, 14 work days.

Sprint 3

Home - Microsoft Azure | SkyCast Team Iteration 3 Taskboard | Progress report - Test Plans | Progress report - Test Plans

dev.azure.com/231001228/SkyCast/_sprints/taskboard/SkyCast%20Team/SkyCast/Iteration%203

Azure DevOps 231001228 / SkyCast / Boards / Sprints

SkyCast Team

Taskboard | Backlog | Capacity | Analytics

Iteration 3 | Person: All

April 20 - May 17
20 work days

Collapse all

New	Active	Resolved	Closed
<div>13 Log In or Sign Up New TEJASWINI K.</div>			
<div>14 Email Verification New TEJASWINI K.</div>			
<div>15 Account Recovery New TEJASWINI K.</div>			
<div>16 Guest Access New TEJASWINI K.</div>			

Sprint 4

Home - Microsoft Azure | SkyCast Team Iteration 4 Taskboard | Progress report - Test Plans | Progress report - Test Plans

dev.azure.com/231001228/SkyCast/_sprints/taskboard/SkyCast%20Team/SkyCast/Iteration%204

Azure DevOps 231001228 / SkyCast / Boards / Sprints

SkyCast Team

Taskboard | Backlog | Capacity | Analytics

Iteration 4 | Person: All

May 22 - June 26
26 work days remaining

Collapse all

New	Active	Resolved	Closed
<div>18 Edit Personal Information New TEJASWINI K.</div>			
<div>19 View Profile Statistics New TEJASWINI K.</div>			
<div>21 Select Units of Measurement New TEJASWINI K.</div>			
<div>22 Enable/Disable Notifications New TEJASWINI K.</div>			

Result:

The Sprints are created for the Weather Application.

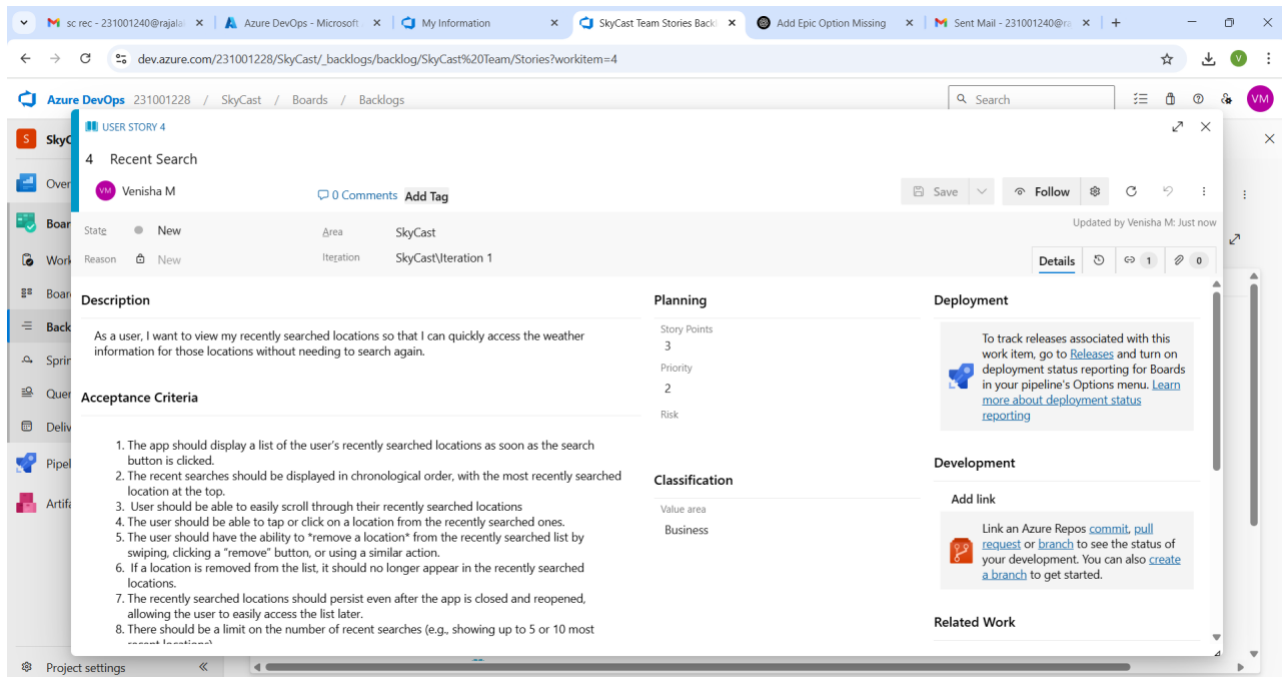
EXP NO: 5

POKER ESTIMATION

Aim:

Create Poker Estimation for the user stories – Weather Application.

Poker Estimation



Result:

The Estimation/Story Points is created for the project using Poker Estimation.

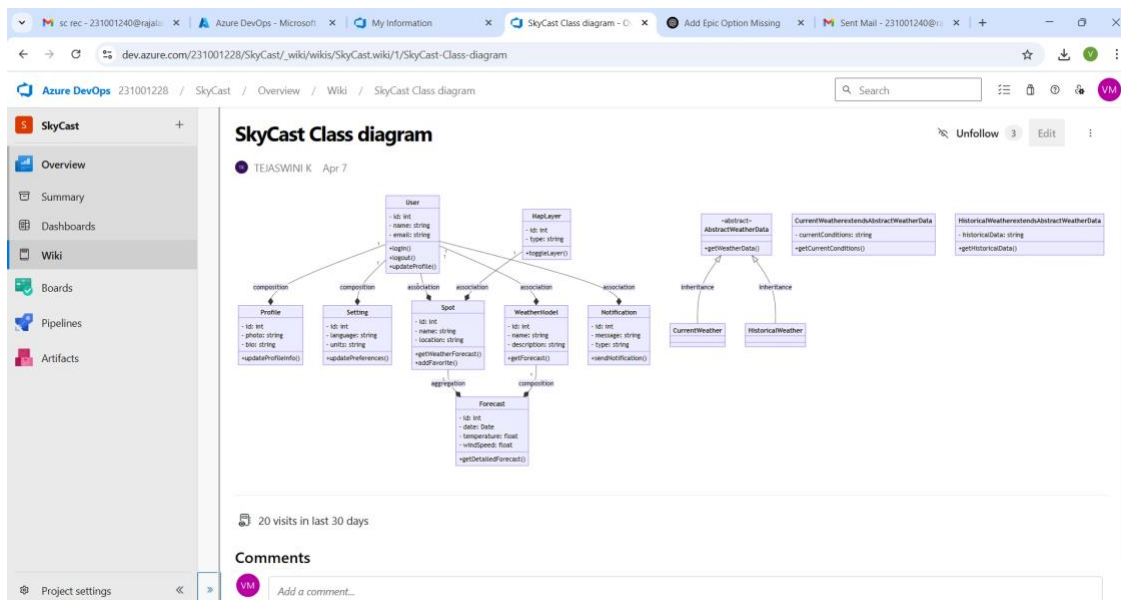
EXP NO: 6

DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE

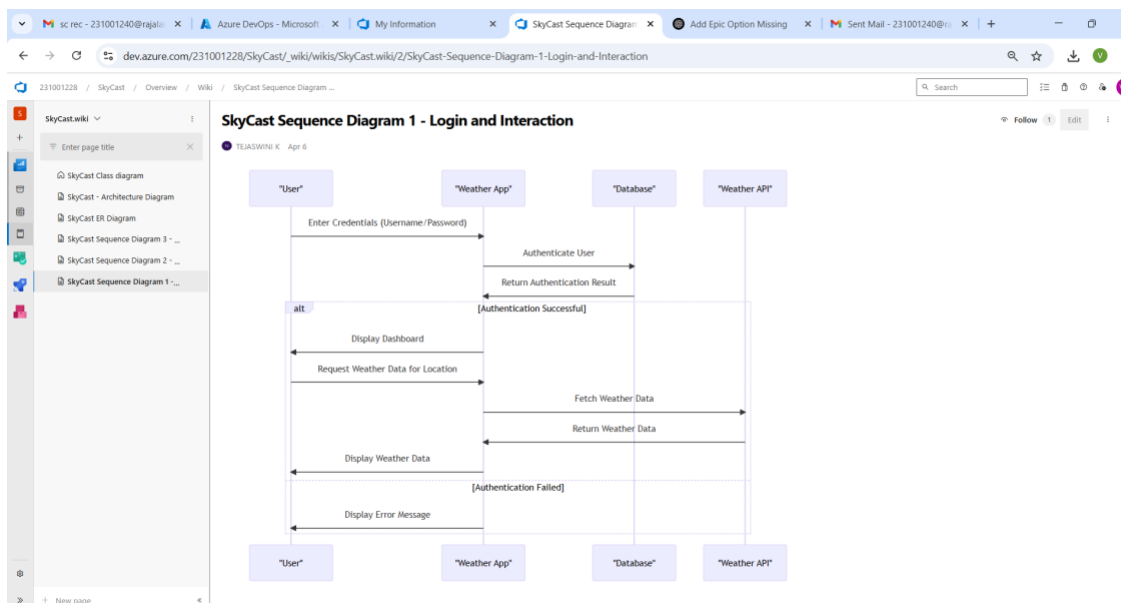
Aim:

To Design a Class Diagram and Sequence Diagram for the given Project.

6A. Class Diagram



6B. Sequence Diagram



Result:

The Class Diagram and Sequence Diagram is designed Successfully for the Weather Application.

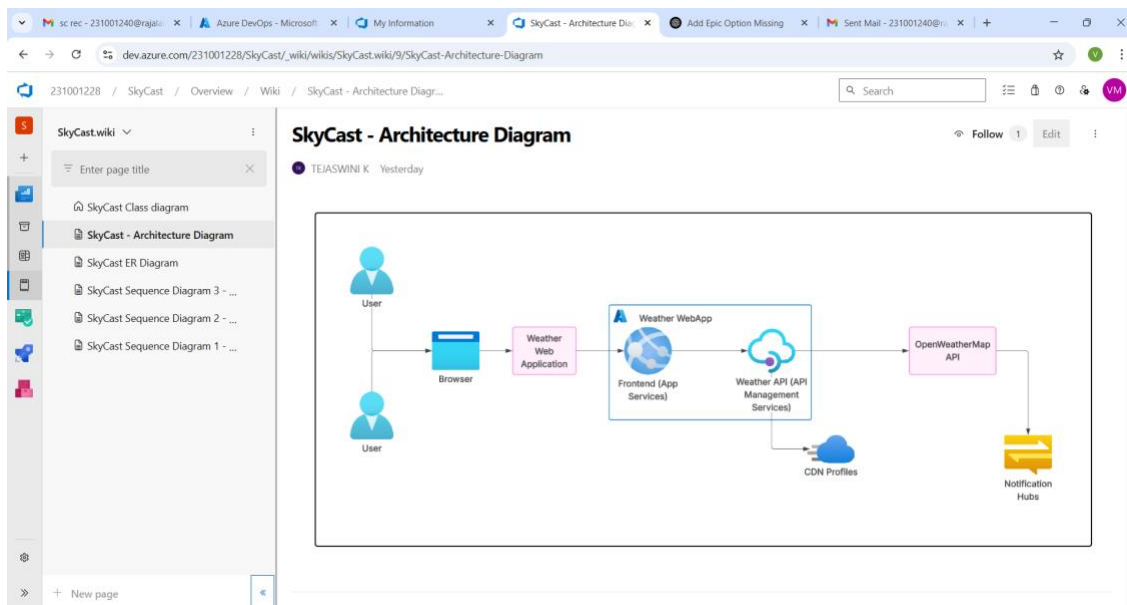
EXP NO: 7

DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE

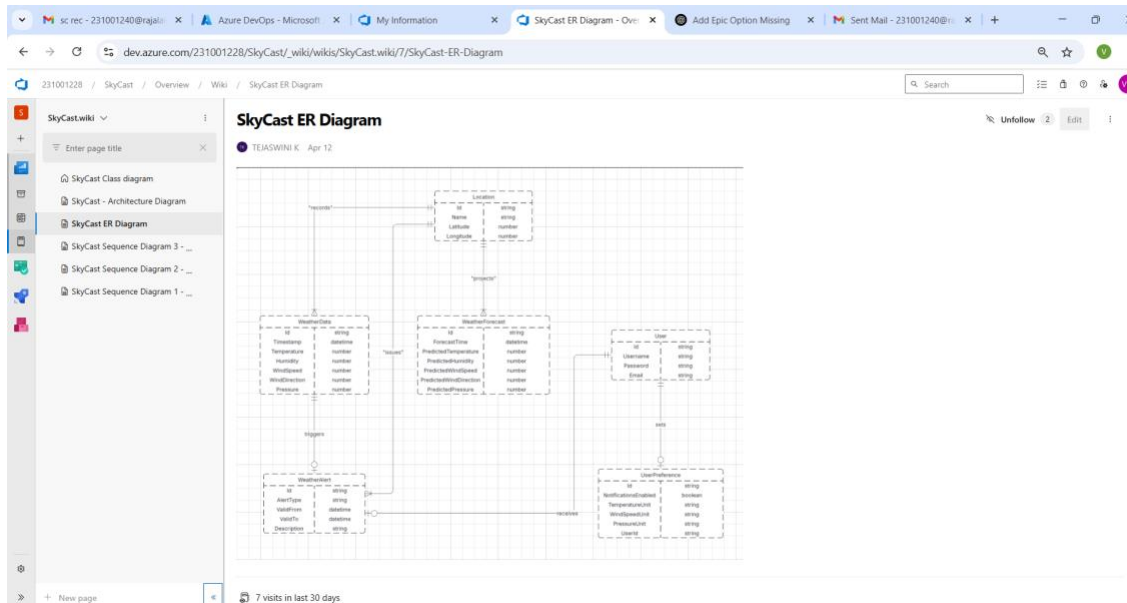
Aim:

To Design an Architectural Diagram and ER Diagram for the given Project.

7A. Architectural Diagram



7B.ER Diagram



Result:

The Architecture Diagram and ER Diagram is designed Successfully for the Weather Application.

EXP NO: 8

TESTING – TEST PLANS AND TEST CASES

Aim:

Test Plans and Test Case and write two test cases for at least five user stories showcasing the happy path and error scenarios in azure DevOps platform.

Test Planning and Test Case

Test Case Design Procedure

1. Understand Core Features of the Application

- Enter city name to fetch weather
- Display current weather (temperature, condition)
- Show 5-day weather forecast
- Save preferred cities
- Handle invalid city names and API errors gracefully

2. Define User Interactions

Each test case simulates a real user behavior.

Examples include:

- Searching for a city
- Viewing the forecast
- Saving or retrieving a preferred city

3. Design Happy Path Test Cases

Focused on validating that all features function as expected under normal conditions.

Examples include:

- User searches for a valid city and sees weather data
- User adds a city to the preferred list successfully

4. Design Error Path Test Cases

Simulate negative or unexpected scenarios to test robustness.

Examples include:

- Weather fetch fails for an invalid city name
- API error occurs and is handled gracefully

5. Break Down Steps and Expected Results

Each test case includes step-by-step actions and the expected outcome.

This ensures clarity for testers and supports automation where needed.

6. Use Clear Naming and IDs

Test cases are named with a clear and consistent format (e.g., TC01 – Valid City Search, TC08 – Invalid City Name Error).

This helps in quick identification and easy traceability.

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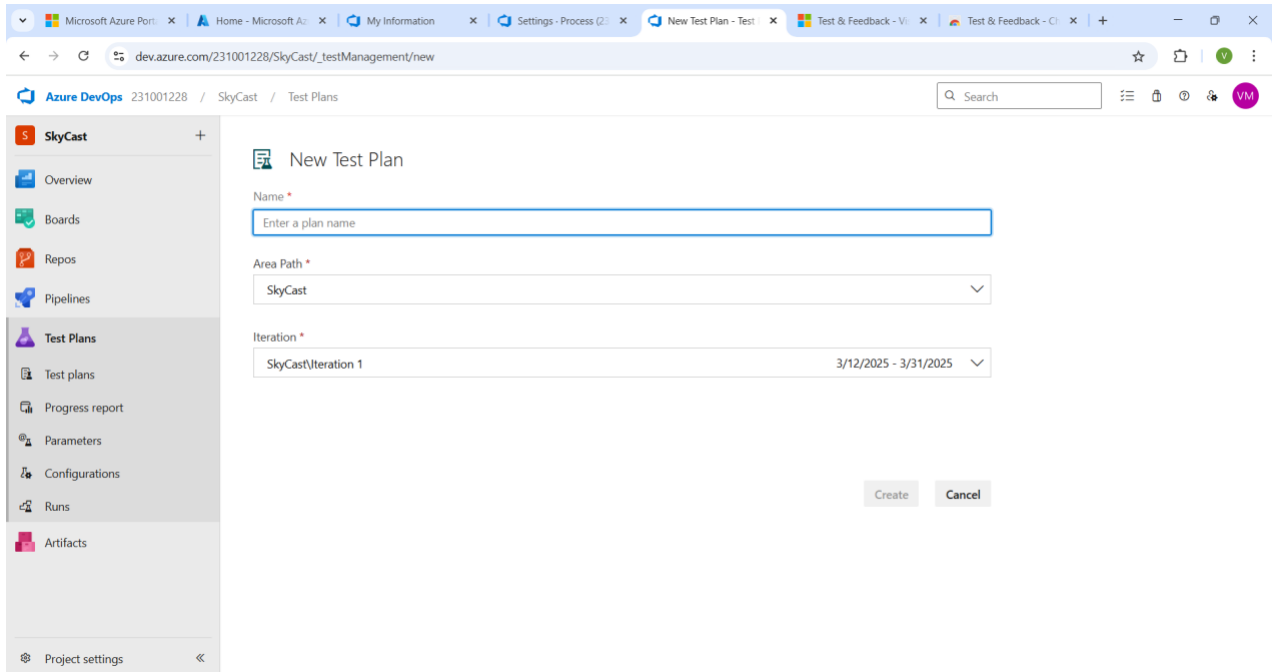
CS23432

7. Separate Test Suites

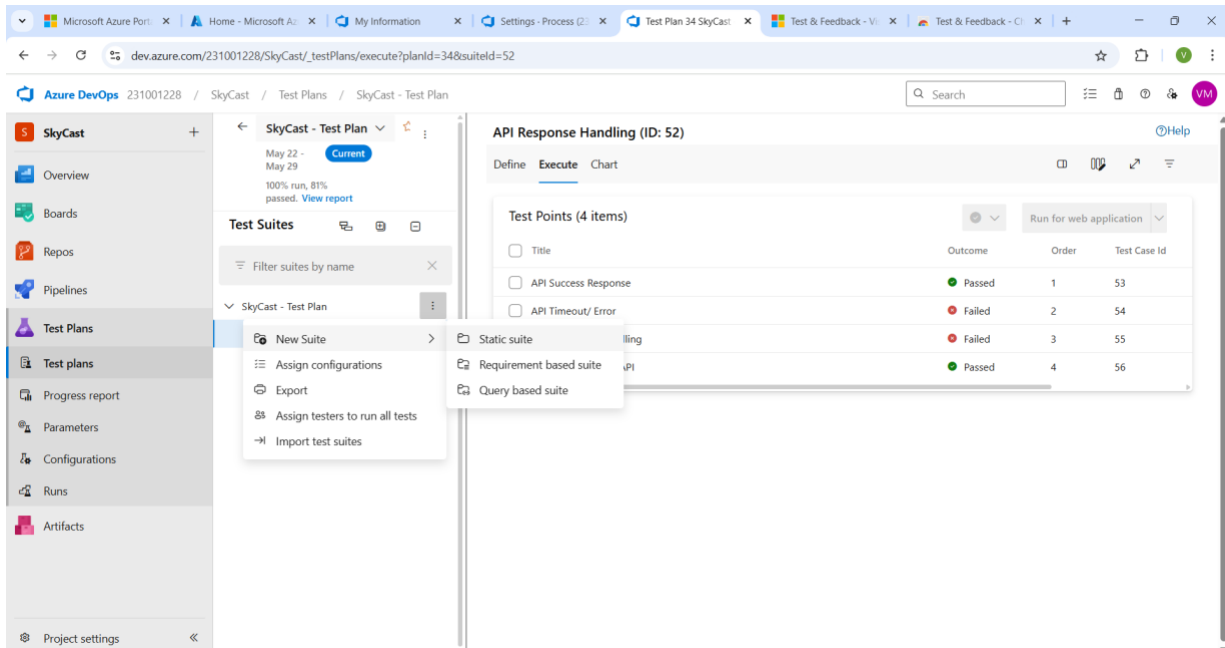
Group test cases based on functionality:

- City Search
- Weather Display
- Forecast
- Preferred City Management
- Error Handling

1. New test plan



2. Test suite



3. Test case

Give two test cases for at least five user stories showcasing the happy path and error scenarios in azure DevOps platform.

Weather app – Test Plans

USER STORIES

- As a user, I want to sign up and log in securely so that I can access personalized features. (ID: 36).
- As a user, I want to search the weather for a specific city (ID: 37).
- As a user, I should be able to view accurate weather updates (ID: 47).

Test Suites

Test Suit: TS01 - User Login (ID: 36)

1. TC01 – Successful Sign Up

- **Action:**
 - Go to the Sign-Up page.
 - Enter valid name, email, and password.
 - Click "Sign Up".
- **Expected Results:**
 - Sign-Up form is displayed.
 - Fields accept values without error.
 - Account is created, and the user is redirected to the dashboard.
- **Type:** Happy Path

2. TC02 – Secure Login

- **Action:**
 - Go to the Login page.
 - Enter valid email and password.
 - Click on "Login".
- **Expected Results:**
 - Login form is displayed.
 - Fields accept data without error.
 - User is logged in and redirected to the dashboard.
- **Type:** Happy Path

3. TC03 – Sign Up with Existing Email

- **Action:**
 - Go to the Sign-Up page.
 - Enter a name and an already registered email.
 - Click on "Sign Up".
- **Expected Results:**

- Fields accept data.
- Error message "Email already registered" is displayed.
- **Type:** Error Path

4. TC04 – Login with Wrong Password

- **Action:**
 - Go to the Login page.
 - Enter valid email and incorrect password.
 - Click on "Login".
- **Expected Results:**
 - Input is accepted.
 - Error message "Invalid username or password" is shown.
- **Type:** Error Path

Test Suit: TS02 – Weather Search (ID: 37)

1. TC05 – Search weather for valid city

- **Action:**
 - Log in successfully.
 - Enter “New York” in the search bar.
 - Click “Search”.
- **Expected Results:**
 - The User is redirected to the dashboard.
 - Input is accepted.
 - Weather data for New York is displayed.
- **Type:** Happy Path

2. TC06 – Search weather for invalid city

- **Action:**
 - Log in.
 - Enter “Xyzcitynotexist” in search.
 - Click “Search”.
- **Expected Results:**
 - User lands on dashboard.
 - Input is accepted.
 - Error message: “City not found” is shown.
- **Type:** Error Path

3. TC07 – Case Insensitivity in Search

- **Action:**
 - Log in
 - Enter “London”, “LONDON”, “London” one by one.
- **Expected Results:**
 - User lands on dashboard.
 - In all cases, valid weather data for London is shown, confirming case-insensitive search.
- **Type:** Happy path.

4. TC08 – Special Characters in input

- **Action:**
 - Log in.
 - Enter city name with special characters like “@Paris!” or “123London”.
- **Expected Results:**
 - Redirected to dashboard.
 - “City not found” message is shown.
- **Type:** Error path.

Test Suit: TS03 – Error and Edge cases (ID: 46)

1. TC09 – Blank Search query

- **Action:**
 - Log in.
 - Leave Search bar empty.
 - Click “Search”.
- **Expected Results:**
 - Redirected to Dashboard.
 - Input remains blank.
 - Warning message “Please enter a city name” is shown.
- **Type:** Error Path

2. TC10 – Network Loss during Operation

- **Action:**
 - Disable internet connection.
 - Try searching for a city.
- **Expected Results:**
 - Website detects offline state.
 - Error message “Network offline, please check your connection is shown” is shown.
- **Type:** Error Path

Test Suit: TS04 – Data Accuracy (ID: 47)

1. TC11 – Verify Current Temperature accuracy

- **Action:**
 - User searches for a valid city.
 - System fetches temperature data from the weather API.
 - App displays the temperature on screen.
- **Expected Results:**
 - Weather data is displayed for Mumbai.
 - API response includes a valid temperature field.

- Displayed temperature matches the API value.
- **Type:** Happy path
- 2. TC12 – Verify humidity and wind speed accuracy**
 - **Action:**
 - User selects a city (e.g., “Dubai”) and views details.
 - App retrieves humidity and wind speed from API.
 - App displays these values on screen.
 - **Expected Results:**
 - Humidity and wind speed values are shown.
 - API returns accurate values (e.g., 70% humidity, 12 km/h)
 - Value match API exactly and use correct units.
 - **Type:** Happy Path

Test Suit: TS045 – API Response handling (ID: 52)

1. TC13 – API Success Response

- **Action:**
 - Log in.
 - Search for a valid city (e.g., “Paris”).
 - Weather data loads on the screen.
- **Expected Results:**
 - Dashboard is displayed.
 - API request is made and a 200 OK response is received.
 - Weather details (temperature, humidity, condition) for Paris are correctly rendered
- **Type:** Happy Path

2. TC14– API Timeout/ Error

- **Action:**
 - Simulate network latency or backend delay.
 - Try searching for any city.
- **Expected Results:**
 - Frontend continues to wait for a response.
 - After timeout, an error message “Request timed out. Please try again.” is shown.
- **Type:** Error Path

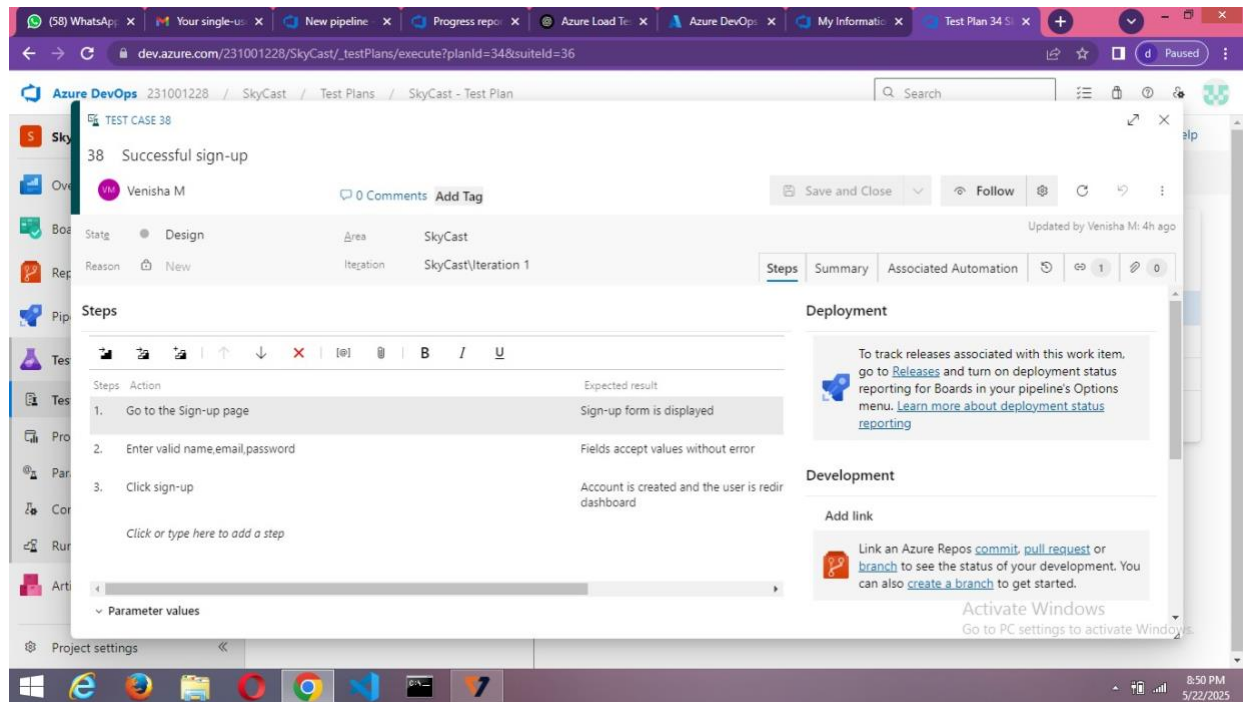
3. TC15 – Invalid API key handling

- **Action:**
 - Replace the API key with an invalid one or simulate expired key.
 - Search for any city.
- **Expected Results:**
 - API returns 401 unauthorized.
 - Error message like “Authentication failed. Please contact support.” is displayed.
- **Type:** Error Path

4. TC16 – No data for city in API

- **Action:**
 - Search for a real but obscure location.
 - App processes the response.
- **Expected Results:**
 - API returns empty or incomplete data.
 - Message “Weather data unavailable for this location is shown.”
- **Type:** Error Path

Test Cases



This screenshot shows the Azure DevOps interface for Test Case 38, titled "Successful sign-up". The test case is owned by Venisha M and is in the "Design" state. It is associated with the "SkyCast" area and "SkyCast/Iteration 1". The test case is updated by Venisha M 4h ago.

Steps:

Steps	Action	Expected result
1.	Go to the Sign-up page	Sign-up form is displayed
2.	Enter valid name,email,password	Fields accept values without error
3.	Click sign-up	Account is created and the user is redirected to the dashboard

Click or type here to add a step

Deployment:

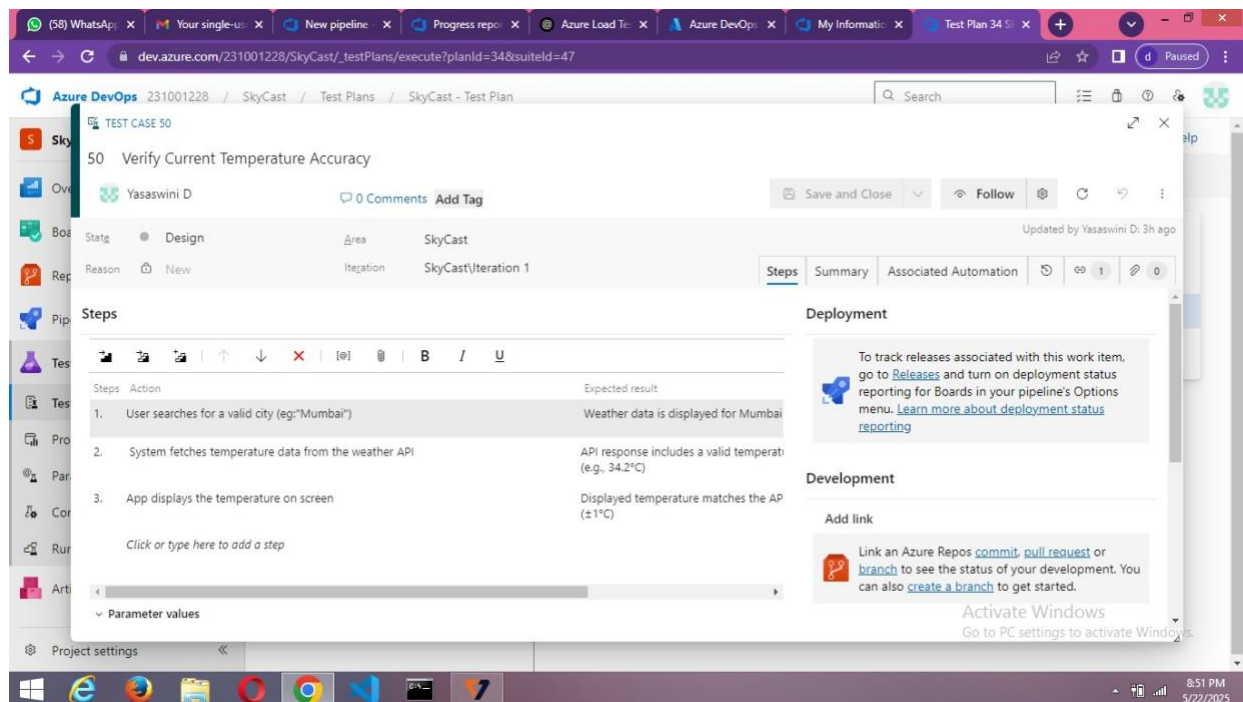
To track releases associated with this work item, go to [Releases](#) and turn on deployment status reporting for Boards in your pipeline's Options menu. [Learn more about deployment status reporting](#)

Development:

Add link

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

Activate Windows
Go to PC settings to activate Windows.



This screenshot shows the Azure DevOps interface for Test Case 50, titled "Verify Current Temperature Accuracy". The test case is owned by Yashaswini D and is in the "Design" state. It is associated with the "SkyCast" area and "SkyCast/Iteration 1". The test case is updated by Yashaswini D 3h ago.

Steps:

Steps	Action	Expected result
1.	User searches for a valid city (eg:"Mumbai")	Weather data is displayed for Mumbai
2.	System fetches temperature data from the weather API	API response includes a valid temperature (e.g., 34.2°C)
3.	App displays the temperature on screen	Displayed temperature matches the API (±1°C)

Click or type here to add a step

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](#)

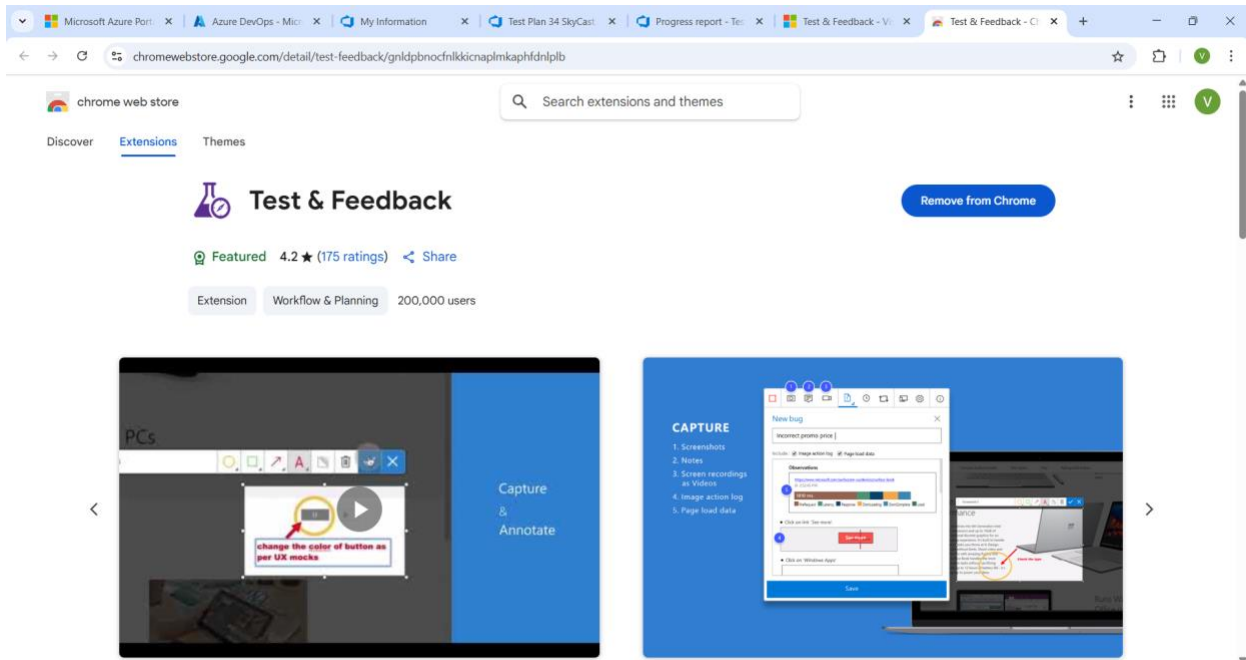
Development:

Add link

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

Activate Windows
Go to PC settings to activate Windows.

4. Installation of test



Test and feedback Showing it
as an extension

The screenshot shows the Azure DevOps SkyCast Test Plan interface. The left sidebar contains navigation links: Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Parameters, Configurations, Runs, and Artifacts. The main content area displays the 'API Response Handling (ID: 52)' test suite, which is currently running (May 22 - May 29, 100% run, 81% passed). Below the suite name, there are four test cases listed in a table:

Title	Order	Test Case Id	Assigned To	Status
<input type="checkbox"/> API Success Response	1	53	Yasaswini D	De
<input type="checkbox"/> API Timeout/ Error	2	54	Yasaswini D	De
<input type="checkbox"/> Invalid API key Handling	3	55	Yasaswini D	De
<input checked="" type="checkbox"/> No Data for City in API	4	56	Yasaswini D	De

The 'Test & Feedback' extension is highlighted in the browser's extensions menu, indicating it is the active extension for this test plan.

5. Running the test cases

Azure DevOps 231001228 / SkyCast / Test Plans / SkyCast - Test Plan

SkyCast - Test Plan

May 22 - May 29
0% run. View report

Test Suites

Filter suites by name

SkyCast - Test Plan

- Data Accuracy (1)
- Error and Edge Cases (4)
- Weather Search (4)
- Login/sign up (4)

Error and Edge Cases (ID: 46)

Define Execute Chart

Test Points (4 items)

Title	Outcome	Order	Test Case Id
<input type="checkbox"/> Blank Search Query	Active	1	48
<input checked="" type="checkbox"/> Blank Search Query	Active	1	48
<input type="checkbox"/> Network Loss During Operation	Active	2	49
<input type="checkbox"/> Network Loss During Operation	Active	2	49

View execution history

Mark Outcome

Run

Reset test to active

Edit test case

Assign tester

Run for web application

Run for desktop application

Run with options

Runner - Test Plans - Google Chrome

dev.azure.com/231001228/SkyCast/_testExecution/

43% Search for Invalid City

- Log in.
EXPECTED RESULT
User lands on dashboard.
- Enter "Xyzcitynotexist" in search
EXPECTED RESULT
Input is accepted.
- Click "Search".
EXPECTED RESULT
Error message "City not found" is shown.

Pass test

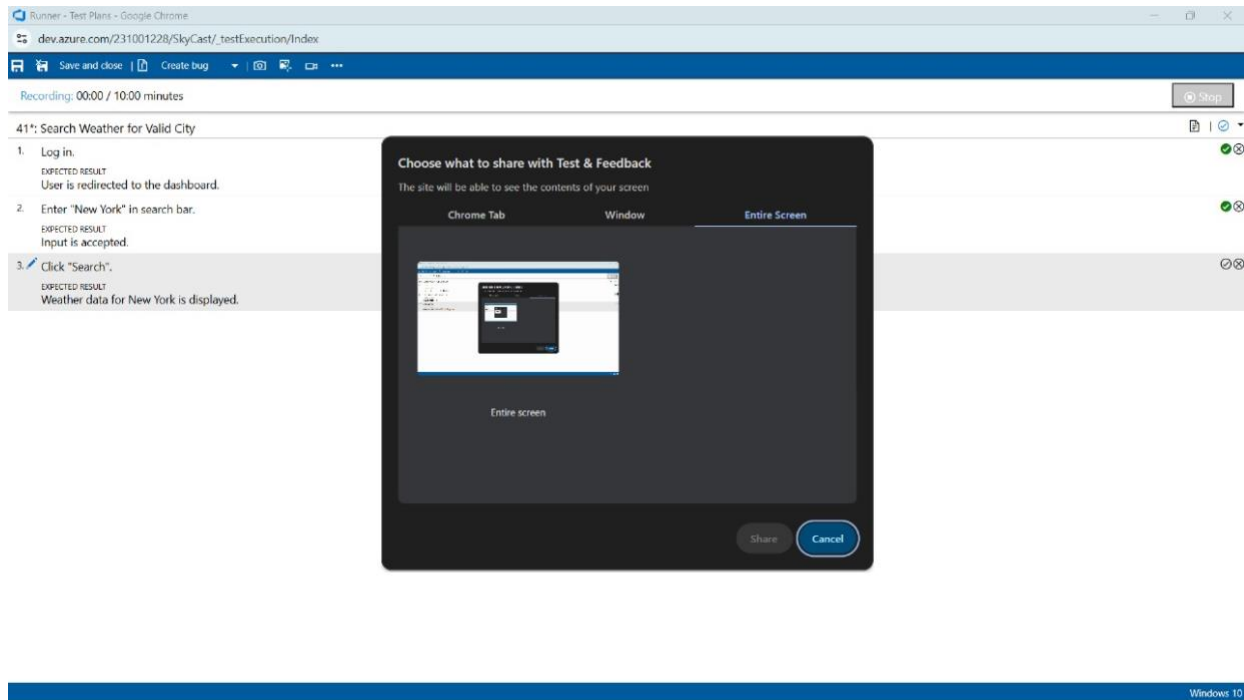
Fail test

Pause test

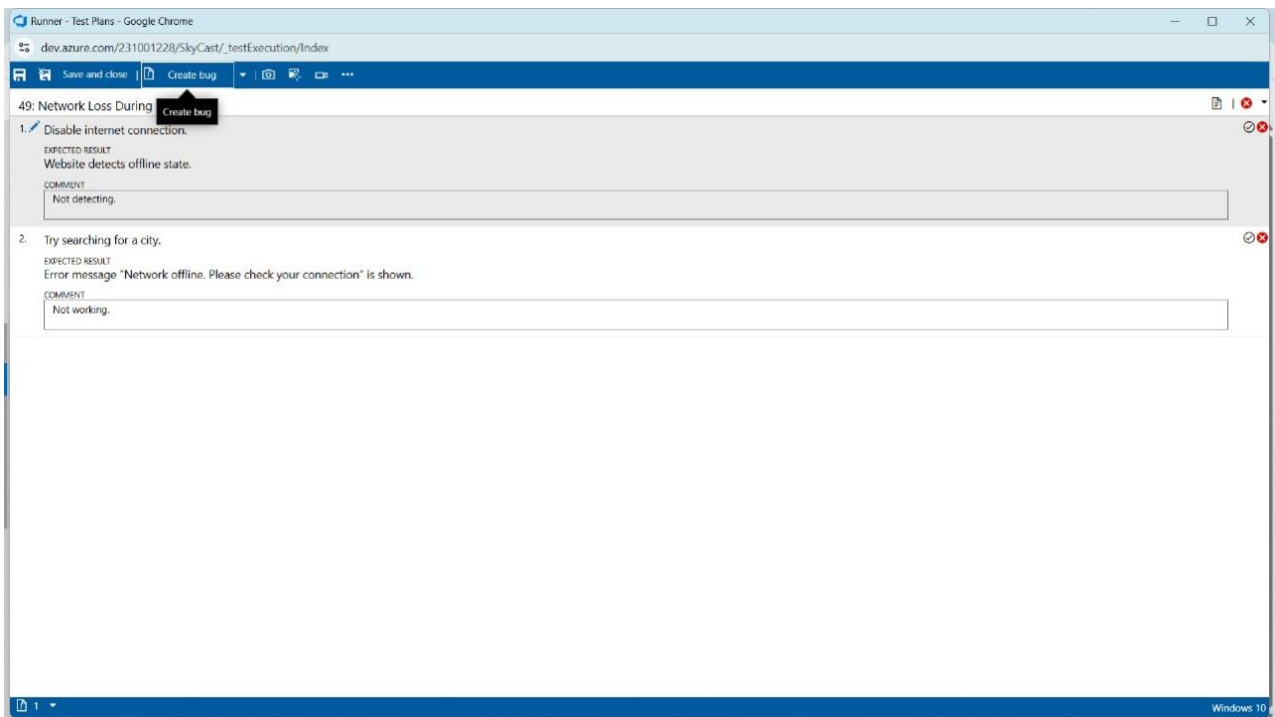
Block test

Not applicable

6. Recording the test case



7. Creating the bug



Runner - Test Plans - Google Chrome

dev.azure.com/231001228/SkyCast/_testExecution/Index

49": Network Loss During Operation

1. Disable Internet Connection

2. Try searching for a city

NEW BUG *

Weather app loading indefinitely

Unassigned 0 comments Add tag Save & Close

State: New Reason: New Area: SkyCast Iteration: SkyCast/Iteration 1

Details 1 2 3

Repro Steps

5/22/2025 3:55 PM Bug filed on "Network Loss During Operation"

Step no.	Result	Title
1.	Failed	Disable internet connection.
		Expected Result: Website detects offline state.
		Comments: Not detecting.
2.	Failed	Try searching for a city.
		Expected Result: Error message "Network offline. Please check your connection" is shown.

Planning

Resolved Reason

Story Points

Priority: 2

Severity: 3 - Medium

Activity

Effort (Hours)

Original Estimate

Remaining

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 request, or branch to see the status of your development. You can also create a branch to get started.

Related Work

+ Add link

Add an existing work item as a parent

Tested By

Runner - Test Plans - Google Chrome

dev.azure.com/231001228/SkyCast/_testExecution/Index

49": Network Loss During Operation

1. Disable Internet Connection

2. Try searching for a city

NEW BUG *

Weather Landing Page loading indefinitely

Unassigned 0 comments Add tag Save & Close

State: New Reason: New Area: SkyCast Iteration: SkyCast/Iteration 1

Details 1 2 3

Repro Steps

5/22/2025 4:00 PM Bug filed on "Network Loss During Operation"

Step no.	Result	Title
1.	Failed	Disable internet connection.
		Expected Result: Website detects offline state.
		Comments: Not detecting.
2.	Failed	Try searching for a city.
		Expected Result: Error message "Network offline. Please check your connection" is shown.

Planning

Resolved Reason

Story Points

Priority: 2

Severity: 3 - Medium

Activity

Effort (Hours)

Original Estimate

Remaining

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 request, or branch to see the status of your development. You can also create a branch to get started.

Related Work

+ Add link

Add an existing work item as a parent

Tested By

8. Test case results

The screenshot shows the Azure DevOps Test Plan interface for a project named 'SkyCast'. The left sidebar contains navigation options: Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Parameters, Configurations, Runs, and Artifacts. The main area displays the 'SkyCast - Test Plan' with a summary of test suites and a list of test points. The 'Test Points (4 items)' list includes: 'Successful sign-up', 'Secure login' (selected), 'Sign up with existing Email', and 'Login with wrong password'. A modal window titled 'Secure login' is open, showing the 'Test Case Results' for the selected test point. The results table shows two successful test runs.

Outcome	TimeSta...	Configuration	Run by	Tester	Test f
Passed	1h ago	Windows 10	TEJASWINI K	Venisha M	SkyC
Passed	1h ago	Windows 10	TEJASWINI K	Venisha M	SkyC

9. Test report summary

The screenshot shows the Azure DevOps Work Items interface for a project named 'SkyCast'. The left sidebar contains navigation options: Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays a list of work items, with the selected item being a bug report titled '59 Weather app loading indefinitely'. The bug report details include the state 'New', the area 'SkyCast', and the reason 'New'. The 'Repro Steps' section lists two steps, both of which failed. The 'Planning' section shows the resolved reason, story points, priority, severity, and activity. The 'Deployment' section provides instructions on how to track releases and link to Azure Repos.

Repro Steps

Step no.	Result	Title
1.	Failed	Disable internet connection.
		Expected Result
		Website detects offline state.
		Comments: Not detecting.
2.	Failed	Try searching for a city.
		Expected Result

- Assigning bug to the developer and changing state

Microsoft Azure Portal | M | x Azure DevOps - Microsoft | x My Information | x Bug 59* Weather app load | x Test & Feedback - Visual S | x Test & Feedback - Chrome | x + -

dev.azure.com/231001228/SkyCast/_workitems/edit/59/

Azure DevOps 231001228 / SkyCast / Boards / Work items

Did you notice Azure Boards has a new look and awesome new features? [Learn more.](#)

Overview

Boards

Work items

Boards

Backlogs

Sprints

Queries

Delivery Plans

Analytics views

Repos

Pipelines

Test Plans

Artifacts

Project settings

Recently updated

Back to Work Items

47 of 48

BUG 59*

59 Weather app loading indefinitely

Verisha M

0 Comments Add Tag

Save Follow

Updated by TEJASWINI K: 28m ago

State: New

Area: SkyCast

Reason: New

Iteration: SkyCast/Iteration 1

Details

Repro Steps

5/22/2025 3:55 PM Bug filed on "Network Loss During Operation"

Step no.	Result	Title
1.	Failed	Disable internet connection.
		Expected Result
		Website detects offline state.
		Comments: Not detecting.
2.	Failed	Try searching for a city.
		Expected Result

Planning

Resolved Reason

Story Points

Priority

2

Severity

3 - Medium

Activity

Effort (Hours)

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 request](#) or [branch](#) to see the status of your development. You can also [create a branch](#) to get started.

10. Progress report

Microsoft Azure Portal | M | x Azure DevOps - Microsoft | x My Information | x Progress report - Test Plan | x Test & Feedback - Visual S | x Test & Feedback - Chrome | x + -

dev.azure.com/231001228/SkyCast/_testManagement/analytics/progressreport

Azure DevOps 231001228 / SkyCast / Test Plans / Progress report

Progress report

SkyCast - Test Plan

Test Suites

Outcome

Configuration

Tester

Priority

Assigned To

Summary

1 Test plans

16 Test points

16 (16 / 16) Test points run

100% Run

81% (13 / 16) Pass rate

13 Passed

3 Failed

Outcome trend

Last 14 Days

2025-05-09

2025-05-10

2025-05-11

2025-05-12

2025-05-13

2025-05-14

2025-05-15

2025-05-16

2025-05-17

2025-05-18

2025-05-19

2025-05-20

2025-05-21

2025-05-22

Passed: 0

Failed: 0

Passed

Failed

Result:

The test plans and test cases for the user stories is created in Azure DevOps with Happy Path and Error Path

EXP NO: 9

LOAD TESTING AND PERFORMANCE TESTING

Aim:

To create an Azure Load Testing resource and run a load test to evaluate the performance of a target endpoint.

Load Testing

Steps to Create an Azure Load Testing Resource:

Before you run your first test, you need to create the Azure Load Testing resource:

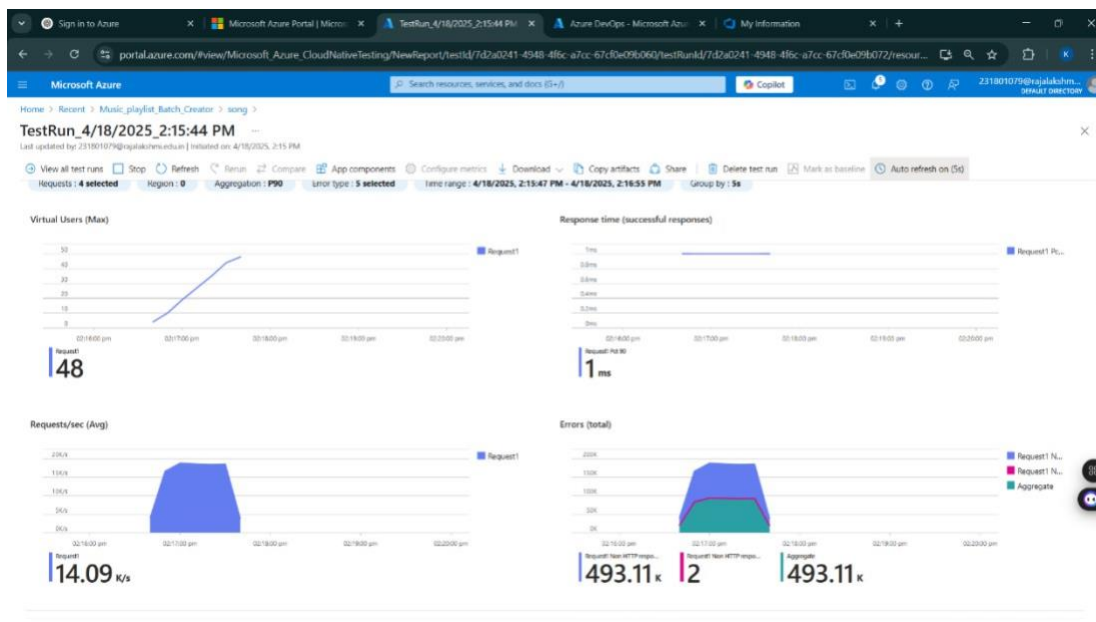
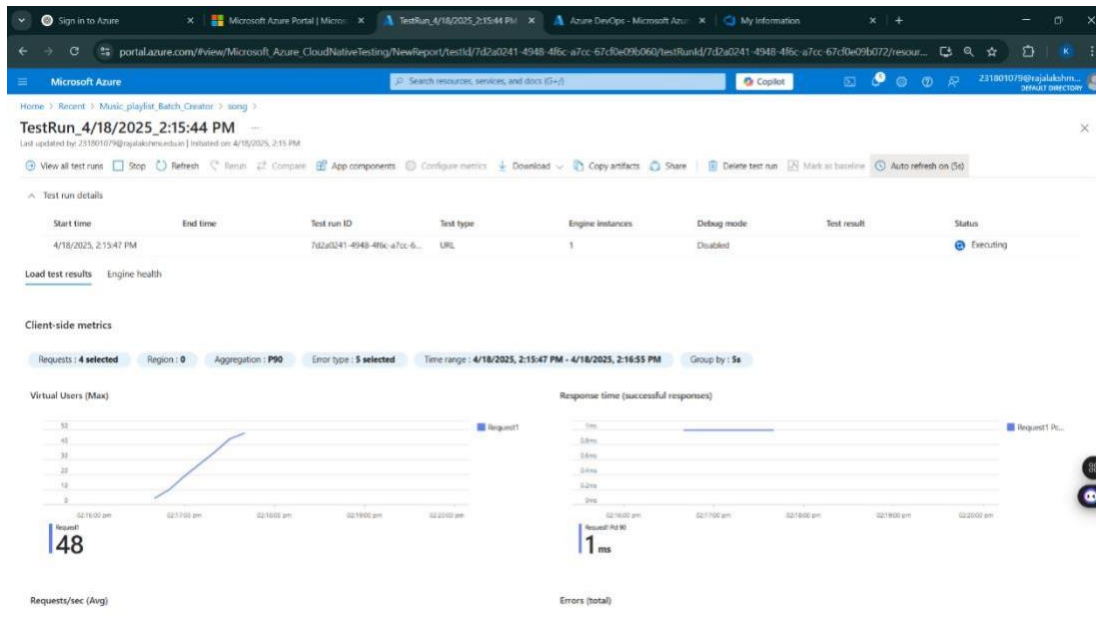
1. Sign in to Azure Portal
Go to <https://portal.azure.com> and log in.
2. Create the Resource
 - Go to *Create a resource* → Search for “Azure Load Testing”.
 - Select Azure Load Testing and click Create.
3. Fill in the Configuration Details
 - *Subscription*: Choose your Azure subscription.
 - *Resource Group*: Create new or select an existing one.
 - *Name*: Provide a unique name (no special characters).
 - *Location*: Choose the region for hosting the resource.
4. (Optional) Configure tags for categorization and billing.
5. Click Review + Create, then Create.
6. Once deployment is complete, click Go to resource.

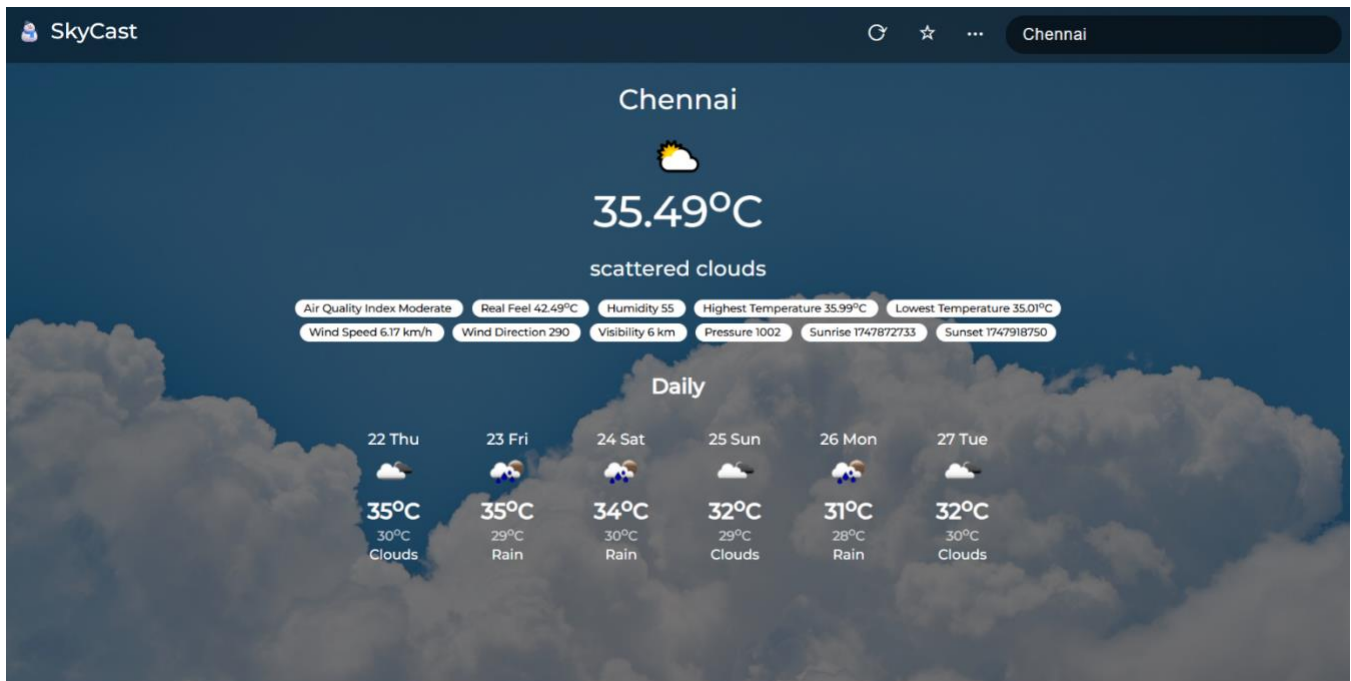
Steps to Create and Run a Load Test:

Once your resource is ready:

1. Go to your Azure Load Testing resource and click Add HTTP requests > Create.
2. Basics Tab
 - *Test Name*: Provide a unique name.
 - *Description*: (Optional) Add test purpose.
 - *Run After Creation*: Keep checked.
3. Load Settings
 - *Test URL*: Enter the target endpoint (e.g., <https://yourapi.com/products>).
4. Click Review + Create → Create to start the test.

Load Testing





Result:

Successfully created the Azure Load Testing resource and executed a load test to assess the performance of the specified endpoint.

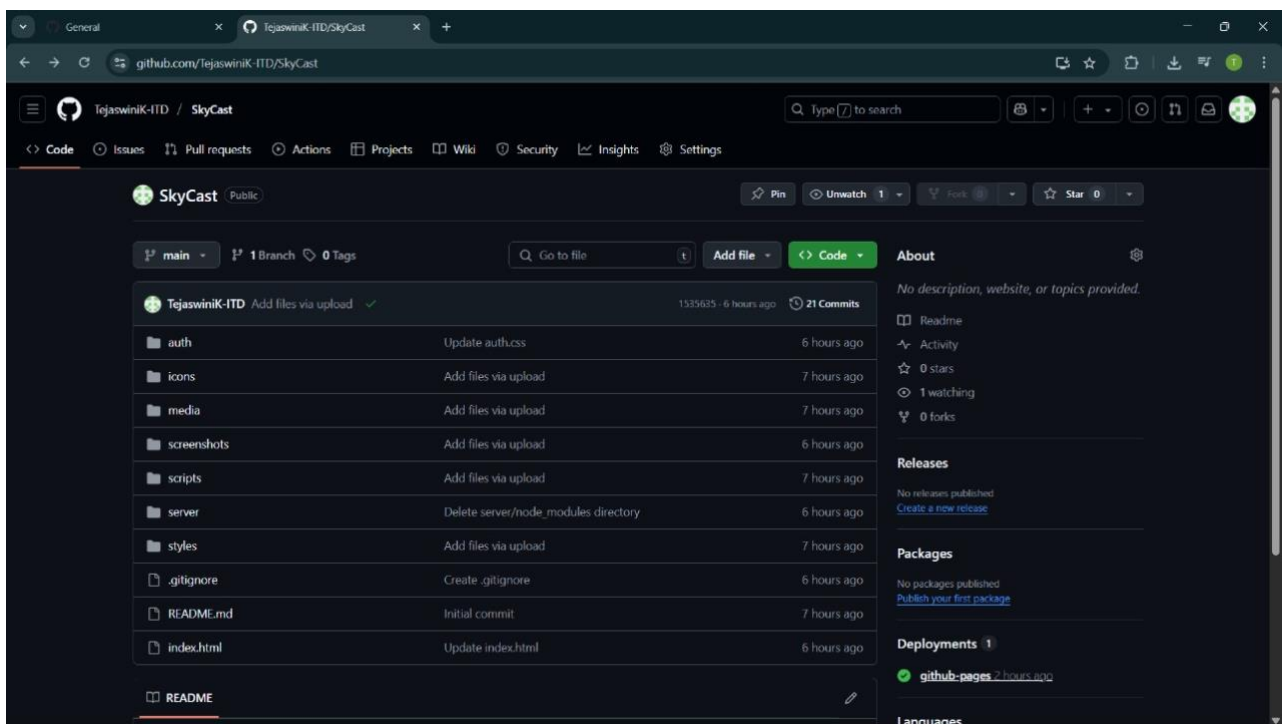
EXP NO: 10

GITHUB: PROJECT STRUCTURE & NAMING CONVENTIONS

Aim:

To provide a clear and organized view of the project's folder structure and file naming conventions, helping contributors and users easily understand, navigate, and extend the Weather app project.

GitHub Project Structure



Result:

The GitHub repository clearly displays the organized project structure and consistent naming conventions, making it easy for users and contributors to understand and navigate the codebase.