

EXP NO: 1

AZURE DEVOPS ENVIRONMENT SETUP

Aim:

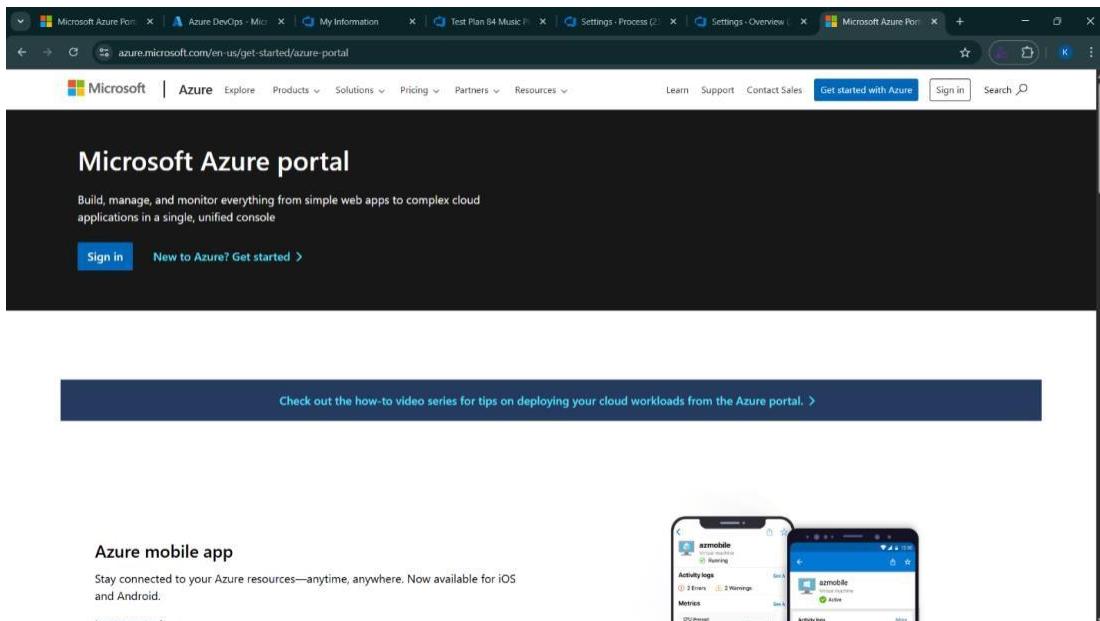
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

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>



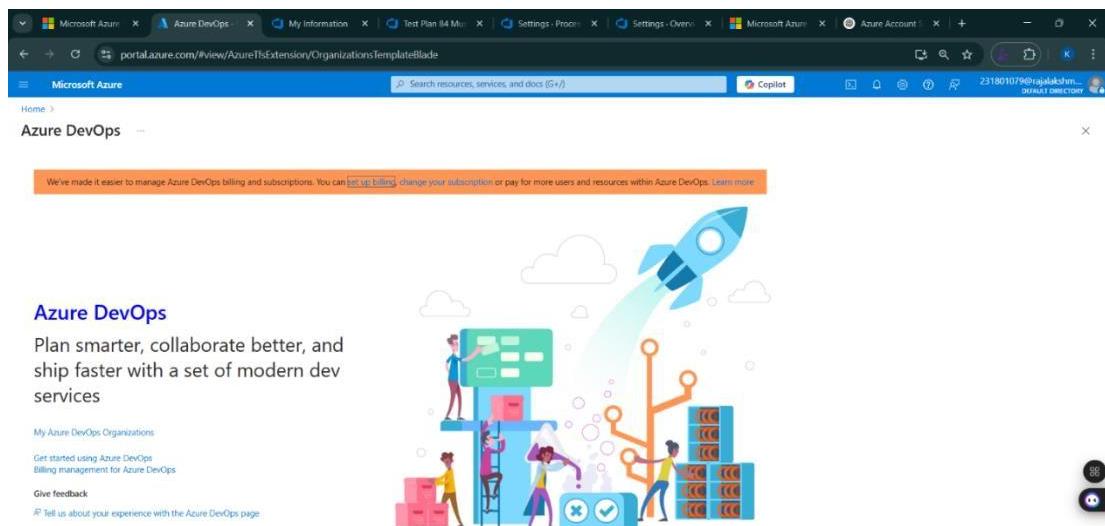
2. Azure home page

The screenshot shows the Microsoft Azure home page. At the top, there's a search bar and a Copilot button. Below the header, the "Azure services" section features a "Create a resource" button and icons for Azure DevOps organizations, Subscriptions, Dashboard hub, Resource groups, Azure Load Testing, Quickstart Center, Azure AI services, Kubernetes services, and More services. The "Resources" section displays recent and favorite resources, including "Music" (Azure Load Testing) and "Music_playlist_Batch_Creator" (Resource group). The "Navigate" section includes links for Subscriptions, Resource groups, All resources, and Dashboard. The "Tools" section lists Microsoft Learn, Azure Monitor, Microsoft Defender for Cloud, and Cost Management. The "Useful links" section includes a link to the Azure mobile app.

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

The screenshot shows the Microsoft Azure home page with a search bar containing the text "DevOps". A dropdown menu appears, listing "Services", "Marketplace", and "More (4)". Under "Services", items like "Azure Native New Relic Service", "Managed DevOps Pools", and "Azure DevOps organizations" are visible. Under "Marketplace", items like "Static Web App", "Rocky Linux 9", and "Build Agents for Azure DevOps" are listed. Under "Documentation", items like "DevOps architecture design - Azure Architecture Center" and "Secure your Azure DevOps - Azure DevOps" are shown. The "Tools" section remains the same as in the previous screenshot.

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.

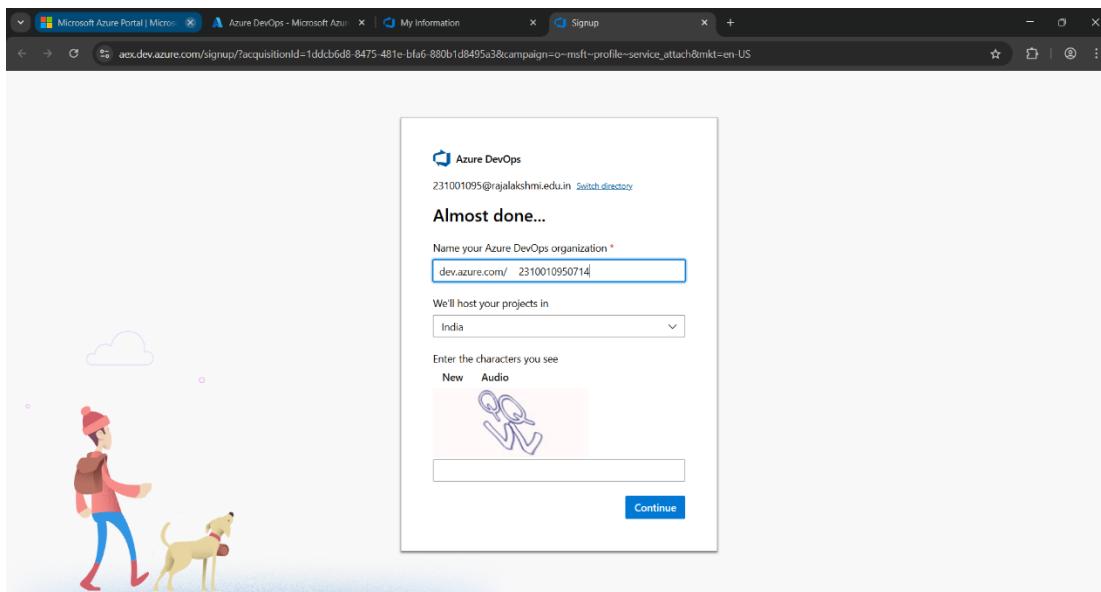
EXP NO: 2

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

a. 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.

b. On the organization's **Home page**, click on the **New Project** button.

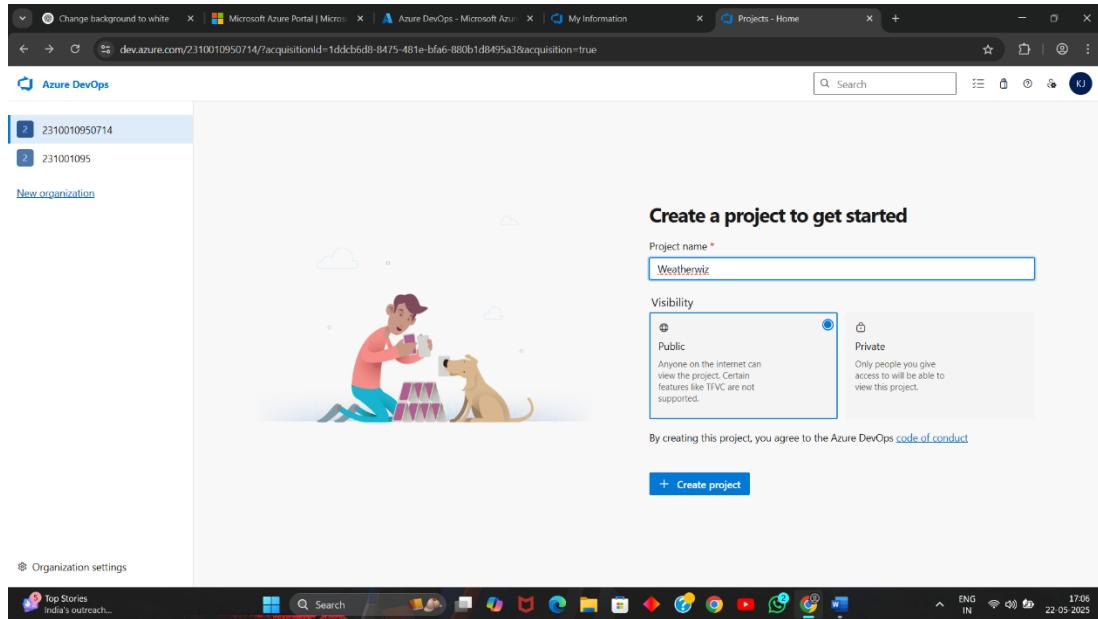
c. Enter the project name, description, and visibility options:

Name: Choose a name for the project (e.g., **WeatherWiz**).

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).

d. Once you've filled out the details, click **Create** to set up your first 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.

The screenshot shows the Azure DevOps Organizations dashboard. At the top right, it says "Kishore JM Sign out". Below the header, there's a profile picture with the letters "KJ" and the name "Kishore JM" with the email "231001095@rajalakshmi.edu.in". A "Edit profile" button is next to the name. A dropdown menu shows "Microsoft account" and "India" with the email "231001095@rajalakshmi.edu.in". To the right, under "Azure DevOps Organizations", it says "Create new organization" and lists "dev.azure.com/231001095 (Owner)". It shows one project: "WeatherWiz - Your Personal Weather Companion". Actions include "Open in Visual Studio" and "New project". A "Visual Studio Dev Essentials" section is also present.

4. Project dashboard

The screenshot shows the Azure DevOps project dashboard for "WeatherWiz - Your Personal Weather Companion". The left sidebar has a navigation menu with "Overview", "Summary", "Dashboards", "Wiki", "Boards", "Repos", "Pipelines", "Test Plans", and "Artifacts". The main content area has a title "WC WeatherWiz - Your Personal Weather Companion". It includes sections for "About this project" (describing WeatherWiz as a smart weather app), "Project stats" (boards, work items, last 7 days), and "Members" (a list of team members with icons). The URL in the address bar is "dev.azure.com/231001095/WeatherWiz%20-%20Your%20Personal%20Weather%20Companion".

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.

The screenshot shows the 'Work items' page in the Azure DevOps interface. The left sidebar is the 'Boards' menu. The main area displays a table of work items with one entry:

ID	Title	Assigned To	State	Area Path	Tags
19	WeatherWiz - Your Personal Weather Companion	231001098	New	WeatherWiz - Your Personal W...	

The screenshot shows the same 'Work items' page as above, but with a user profile overlay on the right side. The profile belongs to 'Kishore JM' with the email '231001095@rajalakshmi.edu.in'. The overlay includes options to 'Sign out', 'My Microsoft account', 'Switch directory', and 'Sign in with a different account'.

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

The screenshot shows the Azure DevOps interface for the WeatherWiz project. On the left, the sidebar is open with 'Backlogs' selected. The main area displays a backlog board titled 'WeatherWiz - Your Personal Weather Companion Team'. The backlog is organized by type: Epic, Feature, User Story, and Task. The first epic is 'WeatherWiz - Your Personal Weather Companion', which contains several features like 'Real-Time Weather Updates' and 'Display pressure levels'. These features further break down into user stories such as 'View AQI for a location' and 'Simple and Clear Weather Forecast'. The backlog also includes tasks like 'Hourly and Detailed Forecasts' and 'Interactive Weather Map'. The status of items ranges from 'New' to 'Active'.

1. Fill in Epics

The screenshot shows the 'Work Items' page in Azure DevOps, specifically for creating a new work item of type 'Epic'. A validation error message 'Field 'Title' cannot be empty.' is displayed above the title input field. The form fields include 'Title' (mandatory), 'State' (set to 'New'), 'Area' (set to 'WeatherWiz - Your Personal Weather Companion'), 'Reason' (set to 'New'), 'Iteration' (set to 'WeatherWiz - Your Personal Weather Companion\Iteration.3'), 'Description' (with placeholder 'Click to add Description.'), 'Planning' (Priority set to '2', Risk set to 'Low'), 'Deployment' (with deployment status reporting instructions), 'Development' (with development status reporting instructions), and 'Related Work' (empty). The sidebar on the left is visible with 'Work items' selected.

2. Fill in Features

The screenshot shows the Azure DevOps interface for creating a new work item. The URL in the browser is https://dev.azure.com/231001095/WeatherWiz%20-%20Your%20Personal%20Weather%20Companion/_workitems/create/Feature. The page title is "New Feature 2*". The left sidebar shows the project navigation with "Work items" selected. The main form is titled "NEW FEATURE * Field 'Title' cannot be empty." It contains fields for "Title" (empty), "State" (New), "Reason" (New), "Area" (WeatherWiz - Your Personal Weather Companion), and "Iteration" (WeatherWiz - Your Personal Weather Companion Iteration 3). The "Description" section has a placeholder "Click to add Description." The "Planning" section includes "Priority" (2), "Risk", and "Business Value". The "Deployment" section has a note about tracking releases. The "Development" section has an "Add link" button. The "Related Work" section has an "Add link" button and a link to "Add an existing work item as a parent".

3. Fill in User Story Details

The screenshot shows the Azure DevOps interface for creating a new work item. The URL in the browser is https://dev.azure.com/231001095/WeatherWiz%20-%20Your%20Personal%20Weather%20Companion/_workitems/create/User%20Story. The page title is "New User Story 3*". The left sidebar shows the project navigation with "Work items" selected. The main form is titled "NEW USER STORY * Field 'Title' cannot be empty." It contains fields for "Title" (empty), "State" (New), "Reason" (New), "Area" (WeatherWiz - Your Personal Weather Companion), and "Iteration" (WeatherWiz - Your Personal Weather Companion Iteration 3). The "Description" section has a placeholder "Click to add Description." The "Acceptance Criteria" section has a placeholder "Click to add Acceptance Criteria." The "Planning" section includes "Story Points", "Priority" (2), "Risk", and "Gleek" (loading). The "Classification" section includes "Value area" (Business) and "Development" section with an "Add link" button. The "Related Work" section has an "Add link" button and a link to "Add an existing work item as a parent".

4. Fill in Task Details

The screenshot shows the Azure DevOps 'Summary - Overview' page for a task titled 'NEW TASK *'. A validation error message 'Field 'Title' cannot be empty.' is displayed above the title input field. The task details include:

- Description:** Click to add Description.
- Planning:** Priority: 2, Activity: Iteration 3
- 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](#)
- Effort (Hours):** Original Estimate, Remaining, Completed
- 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.
- Implementation:** Related Work

The left sidebar shows project navigation options like Boards, Reports, Pipelines, Tests, and Artifacts. The bottom left corner shows 'Project settings' and a back arrow.

Result:

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

EXP NO: 4

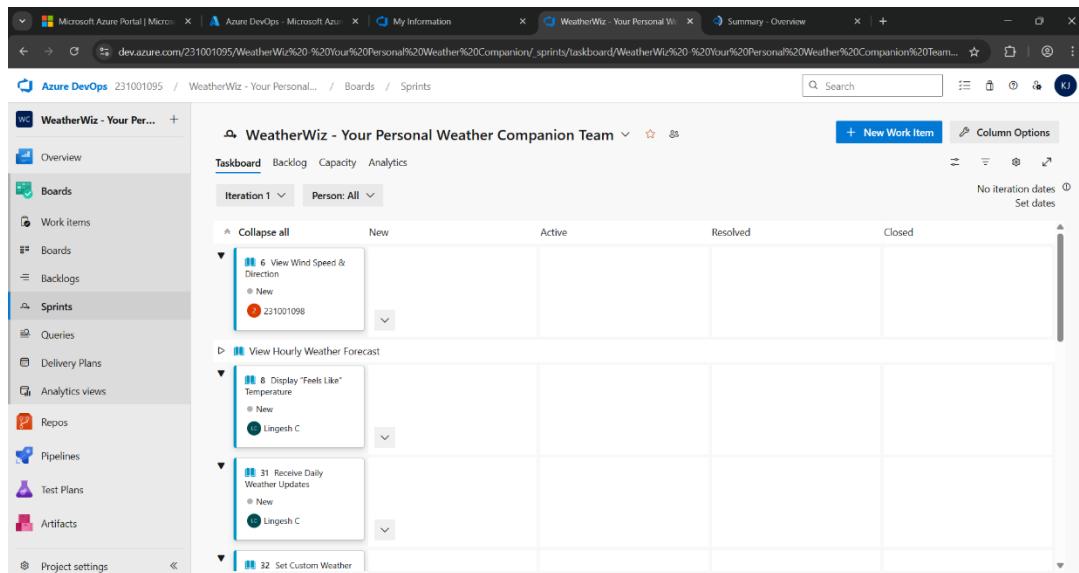
SPRINT PLANNING

Aim:

To assign user story to specific sprint for the WeatherWiz - Weather Companion Project.

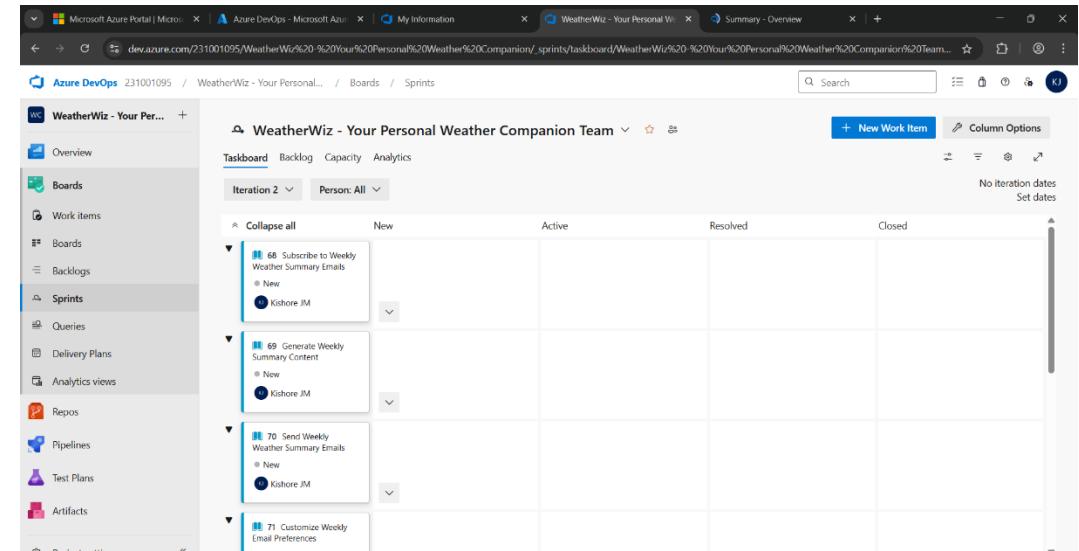
Sprint Planning :

Sprint 1



The screenshot shows the Azure DevOps Taskboard for the WeatherWiz project. The left sidebar is open with the 'Sprints' tab selected. The main area displays the 'Iteration 1' taskboard. There are three collapsed items under 'Iteration 1': '6 View Wind Speed & Direction', '8 Display "Feels Like" Temperature', and '31 Receive Daily Weather Updates'. Under '8 Display "Feels Like" Temperature', there is one active item: '32 Set Custom Weather' assigned to 'Lingesh C'. The columns are labeled 'New', 'Active', 'Resolved', and 'Closed'.

Sprint 2



The screenshot shows the Azure DevOps Taskboard for the WeatherWiz project. The left sidebar is open with the 'Sprints' tab selected. The main area displays the 'Iteration 2' taskboard. There are four collapsed items under 'Iteration 2': '68 Subscribe to Weekly Weather Summary Emails', '69 Generate Weekly Summary Content', '70 Send Weekly Weather Summary Emails', and '71 Customize Weekly Email Preferences'. All four items are listed as 'New' and assigned to 'Kishore JM'. The columns are labeled 'New', 'Active', 'Resolved', and 'Closed'.

Sprint 3

The screenshot shows the Azure DevOps Boards Sprints view for the WeatherWiz - Your Personal Weather Companion Team. The backlog for Iteration 3 is displayed, showing four work items:

- 72 Daily Outfit Suggestions Based on Weather (New, assigned to KEERTHI HAASAN K)
- 73 Set Outfit Style and Preference Settings (New, assigned to 231001098)
- 74 Visual Outfit Display with Weather Context (New, assigned to 231001098)
- 77 Suggest Optimal Appliance Usage Times (New)

Result:

The Sprints are created for the WeatherWiz Project.

EXP NO: 5

POKER ESTIMATION

Aim:

Create Poker Estimation for the user stories - WeatherWiz - Weather Companion Project.

Poker Estimation

The screenshot shows the Azure DevOps interface for a User Story titled "72 Daily Outfit Suggestions Based on Weather". The story is assigned to KEERTHI HAASAN K and is in the New state. It is part of the WeatherWiz - Your Personal Weather Companion project and iteration 3. The story points are set to 3, priority to 2, and risk to 2 - Medium. The acceptance criteria include outfit suggestions reflecting real-time weather and being updated daily. The classification is Value area Business, and the Gleek is 9|eek_. The deployment section provides instructions for tracking releases via Azure Pipelines. The development section links to Azure Repos for commit, pull request, or branch status. The related work section is currently empty.

Result:

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

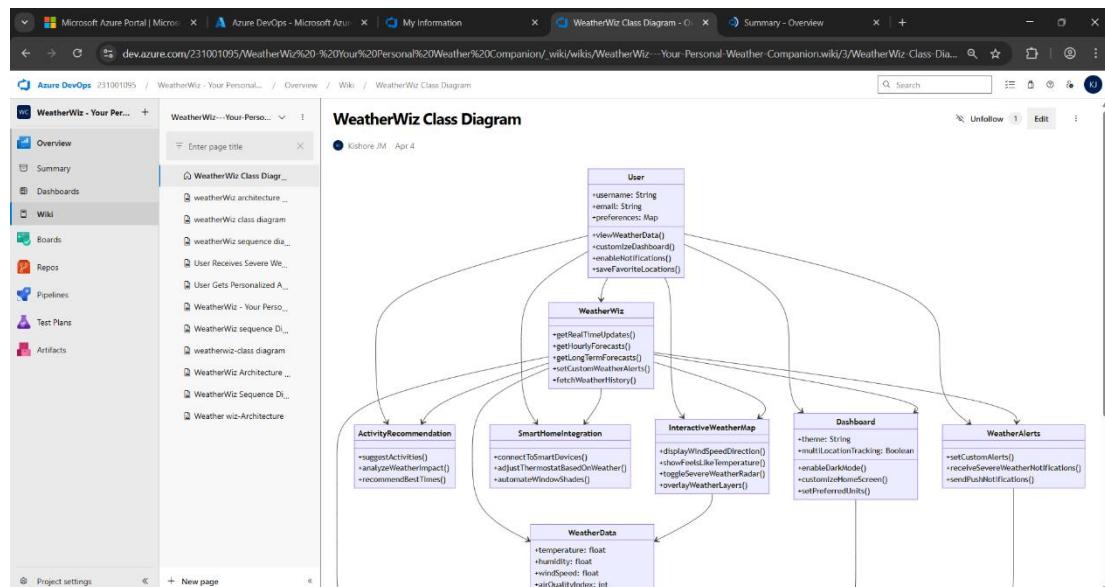
EXP NO: 6

DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE

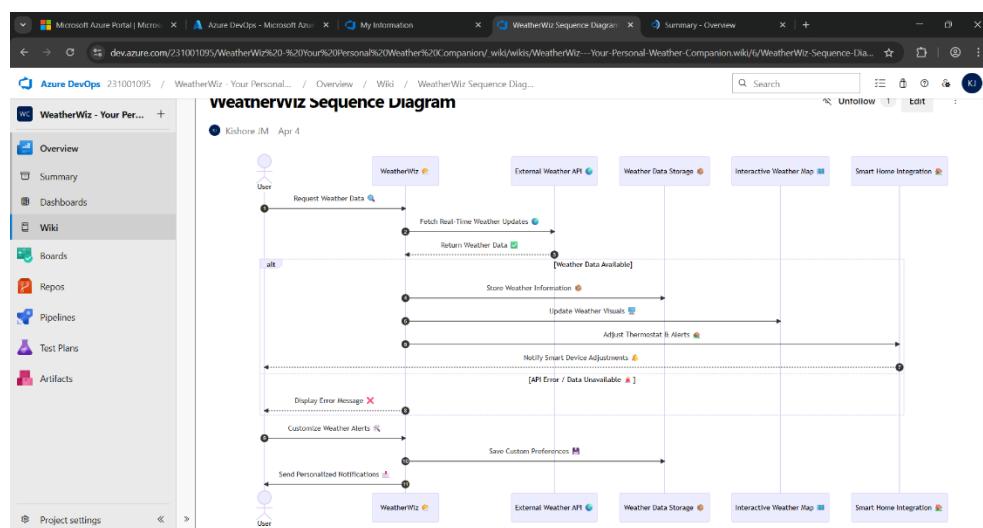
Aim:

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 Music Playlist Batch Creator.

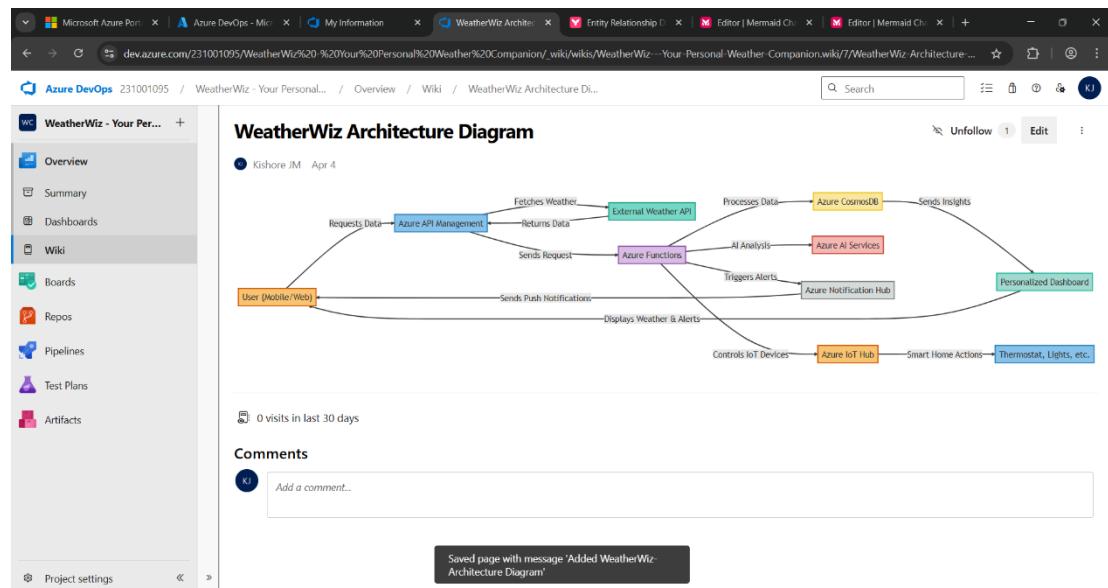
EXP NO: 7

DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE

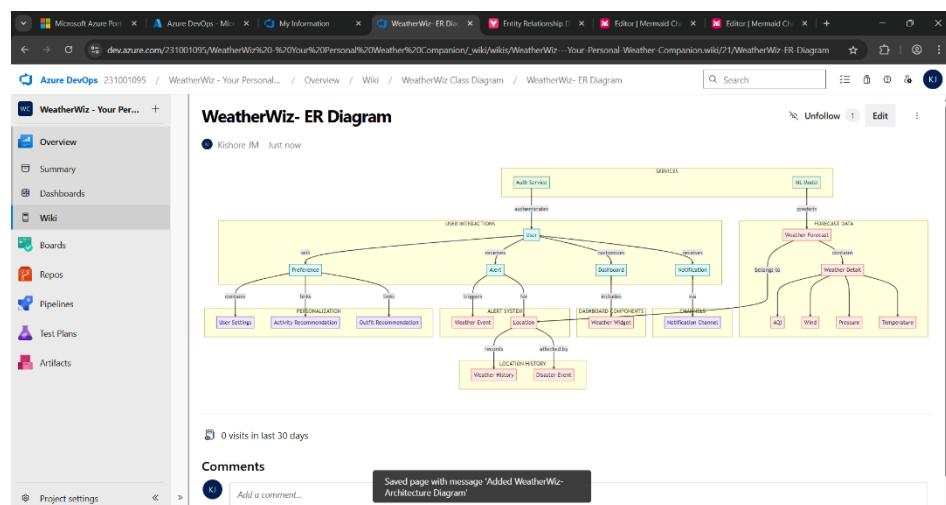
Aim:

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 WeatherWiz - Weather Companion.

EXP NO: 8	TESTING – TEST PLANS AND TEST CASES
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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**

- View Current Weather by Location
- Hourly and Weekly Forecasts
- Severe Weather Alerts
- Add and Manage Favorite Locations
- View Weather by Categories (e.g., temperature, wind, precipitation)
- Weather-Based Recommendations (e.g., clothing, travel tips)

2. Define User Interactions

Each test case simulates a real user behavior such as :

- Logging in
- Searching for a city's weather
- Adding a location to favorites
- Viewing extended forecast
- Receiving alerts or recommendations

3. Design Happy Path Test Cases

- Focused on validating that all features function as expected under normal conditions.
- Example: User logs in successfully, adds a city to favorites, or Receives accurate 7-day forecast.

4. Design Error Path Test Cases

- Simulate negative or unexpected scenarios to test robustness and error handling.
- Example: Login fails with invalid credentials, Weather data fetch fails due to no internet, Invalid city name entered in search.

5. Break Down Steps and Expected Results

- Each test case contains step-by-step actions and a corresponding expected outcome.
- Ensures clarity for both testers and automation scripts.

6. Use Clear Naming and IDs

- Test cases are named clearly (e.g., TC01 – Successful Login, TC08 – Add Favorite Location).
- Helps in quick identification and linking to user stories or features.

7. Separate Test Suites

- Grouped test cases based on functionality (e.g., Login, Weather Data Retrieval, Forecast and Alerts, Recommendations and Tips).

8. Prioritize and Review

- Critical user actions are marked high-priority.
- Reviewed for completeness and traceability against feature requirements.

1. New test plan

The screenshot shows the 'New Test Plan' dialog in the Azure DevOps interface. The 'Name' field contains 'WeatherWiz - Test Plan'. The 'Area Path' dropdown is set to 'WeatherWiz - Your Personal Weather Companion'. The 'Iteration' dropdown is set to 'WeatherWiz - Your Personal Weather Companion Iteration 3'. At the bottom right are 'Create' and 'Cancel' buttons.

2. Test suite

The screenshot shows the 'Test Suites' page in the Azure DevOps interface. A context menu is open over a 'New Suite' item under the 'WeatherWiz - Test Plan' section. The menu options are: New Suite, Assign configurations, Export, Open, Assign testers to run all tests, Rename, Delete, and Import test suites. Below the menu, there is a 'New Suite' card with three icons: Static suite, Requirement based suite, and Query based suite. The main interface shows a 'Define' tab and a 'Chart' tab.

3. Test case

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

WeatherWiz - Weather Companion – Test Plans

USER STORIES

- As a user, I want to get real-time weather updates (ID: 201).
- As a user, I want to see weather by location (ID: 202).
- As a user, I want to save favorite cities for quick access (ID: 203).
- As a user, I want weather alerts (e.g., rain, storm) (ID: 204).
- As a user, I want to customize temperature units (Celsius/Fahrenheit) (ID: 205).

Test Suites

Test Suit: TS01 - Real-Time Weather Updates (ID: 301)

1. TC01 – Real-Time Weather Display

- **Action:**
 - Open app.
 - Enable device location
 - Wait for weather to load
- **Expected Results:**
 - Current temperature.
 - Weather condition.
 - Icon display correctly.
- **Type:** Happy Path

2. TC02 – No Internet Weather Error

- **Action:**
 - Turn off Wi-Fi/Mobile Data.
 - Open the app.
- **Expected Results:**
 - Message: “Cannot fetch weather. Please check your internet connection.”
- **Type:** Error Path

Test Suit: TS02 - Location-Based Weather Search (ID: 302)

1. TC03 – Search Weather for a City

- **Action:**
 - Tap “Search”.
 - Enter “Delhi”.
- **Expected Results:**
 - Weather info for Delhi is displayed.
- **Type:** Happy Path

2. TC04 – Invalid City Search

- **Action:**

- Tap “Search”.
 - Enter "% % % \$\$\$\$".
- **Expected Results:**
 - Error: “City not found. Please enter a valid city.”
- **Type:** Error Path

Test Suit: TS03 - Manage Favorite Cities (ID: 303)

1. TC05 – Add City to Favorites

- **Action:**
 - Search for a city.
 - Tap “★” to add it to favorites.
- **Expected Results:**
 - City added to “Favorites” list.
- **Type:** Happy Path

2. TC06 – Add Duplicate Favorite

- **Action:**
 - Try adding same city again.
- **Expected Results:**
 - Message: “City already exists in favorites”.
- **Type:** Error Path

Test Suit: TS04 - Weather Alerts (ID: 304)

1. TC07 – Show Rain Alert

- **Action:**
 - App detects rain in forecast.
- **Expected Results:**
 - User receives in-app or push alert: “Rain expected today”.
- **Type:** Happy Path

2. TC08 – Alert Fails to Trigger

- **Action:**
 - Alert is enabled.
 - Forecast has storm.
 - No alert shown.
- **Expected Results:**
 - Fallback message: “Alert system unavailable. Please check manually.”
- **Type:** Error Path

Test Suit: TS05 - Unit Preferences (ID: 305)

1. TC09 – Switch to Fahrenheit

- **Action:**
 - Go to Settings.
 - Select “Fahrenheit”.
- **Expected Results:**
 - Weather values are updated to °F.
- **Type:** Happy Path

2. TC10 – Unit Switch Fails

- **Action:**
 - Go to Settings.
 - Tap on unit toggle.
 - No change occurs.
- **Expected Results:**
 - Error: “Unable to update units. Please try again.”.
- **Type:** Error Path

Test Suit: TS06 - Weather Widget Integration (ID: 306)

1. TC11 – Display Weather on Home Widget

- **Action:**
 - Add WeatherWiz widget to the home screen.
 - Allow location access.
- **Expected Results:**
 - Widget displays current temperature and condition (e.g., "26°C – Cloudy").
- **Type:** Happy Path

2. TC12 – Widget Fails Without Permission

- **Action:**
 - Add widget.
 - Deny location permission.
- **Expected Results:**
 - Message on widget: “Enable location to display weather”.
- **Type:** Error Path

Test Cases

Azure DevOps Test Plan - WeatherWiz - Test Plan - WeatherWiz - Test Case 103

TEST CASE 103
103 No Internet Weather Error
Kishore JM | 0 Comments | ErrorPath | +

State: Design | Area: WeatherWiz - Your Personal Weather Companion | Reason: New | Iteration: WeatherWiz - Your Personal Weather Companion\Iteration 3

Steps

Steps	Action	Expected result
1.	Turn off Wi-Fi/Mobile Data	Message: "Cannot fetch weather. Please check your internet connection."
2.	Open the app	

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

Related Work

Add link | Add an existing work item as a parent

Tests | 12 Current Weather Display Updated Apr 25 | New

Azure DevOps 231001095 / WeatherWiz - Your Personal... / Test Plans / WeatherWiz - Test Plan

TEST CASE 112
112 Alert Fails to Trigger
KEERTHI HAASAN K | 0 Comments | ErrorPath | +

State: Design | Area: WeatherWiz - Your Personal Weather Companion | Reason: New | Iteration: WeatherWiz - Your Personal Weather Companion\Iteration 3

Steps

Steps	Action	Expected result
1.	Alert is enabled	Fallback: "Alert system unavailable. Please check manually."
2.	Forecast has storm	
3.	No alert shown	

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](#)

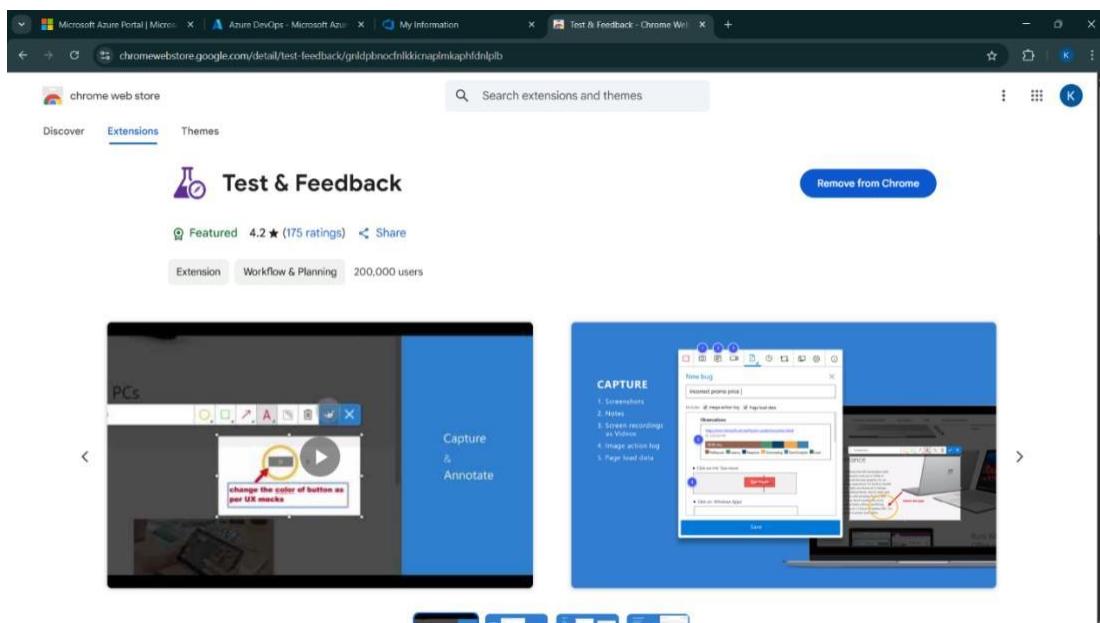
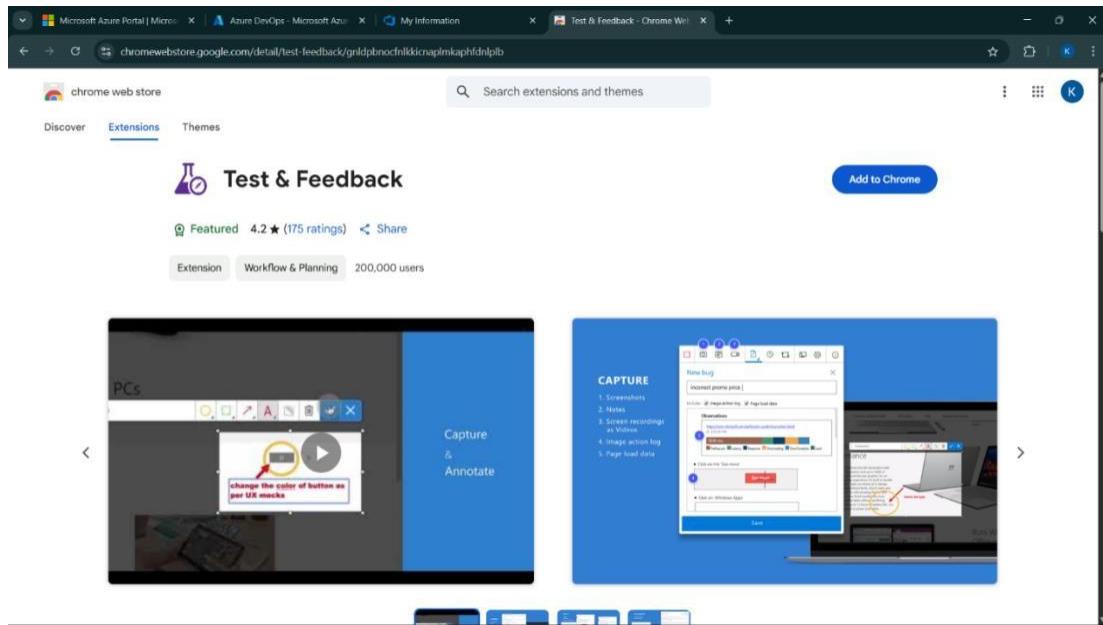
Development

Related Work

Add link | Add an existing work item as a parent

Tests | 110 Receive Rain Alert Notifications Updated 10m ago | New

4. Installation of test



Test and feedback

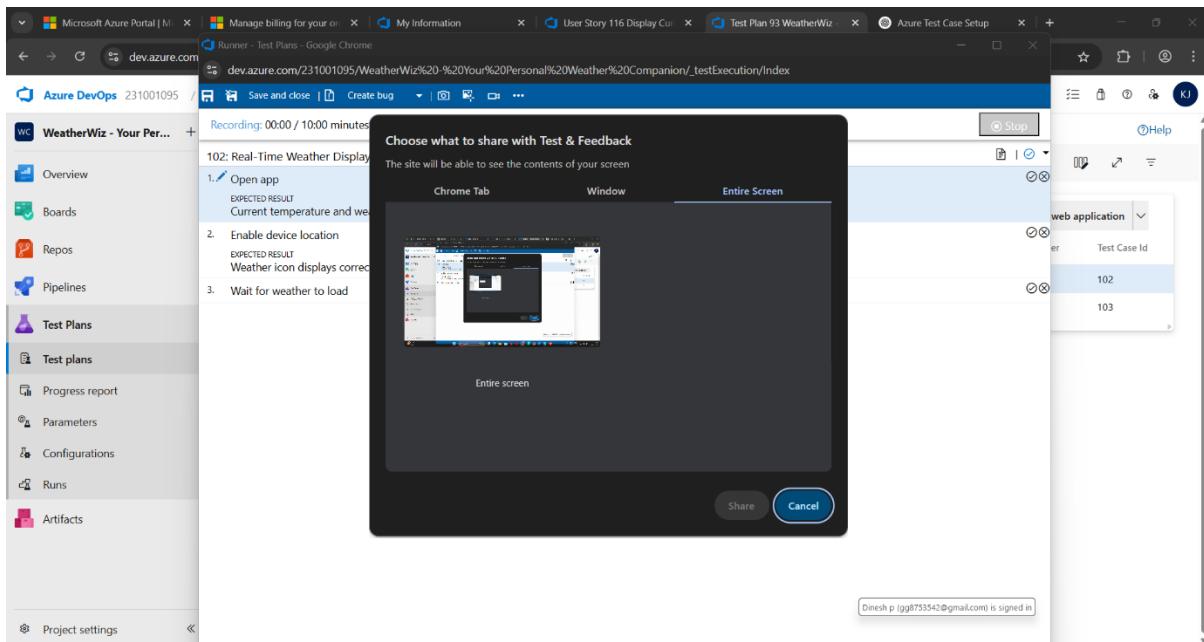
Showing it as an extension

The screenshot shows the Azure DevOps interface for a project named 'WeatherWiz - Your Personal...'. The left sidebar is open, showing 'Test Plans' selected under 'Test plans'. In the main content area, a test plan titled 'TS04 - Weather Alerts (ID: 99)' is selected. The 'Test Cases (2 items)' section lists two cases: 'Show Rain Alert' and 'Alert Fails to Trigger', with the latter being the active item. A floating 'Extensions' panel is displayed on the right, titled 'Extensions' with 'Full access' and a note: 'These extensions can see and change information on this site.' It lists several extensions: 'Custom Cursor for Chrome™', 'Grammarly: AI Writing and...', 'MetaMask', 'Save image as Type', 'Test & Feedback', and a link to 'Manage extensions'.

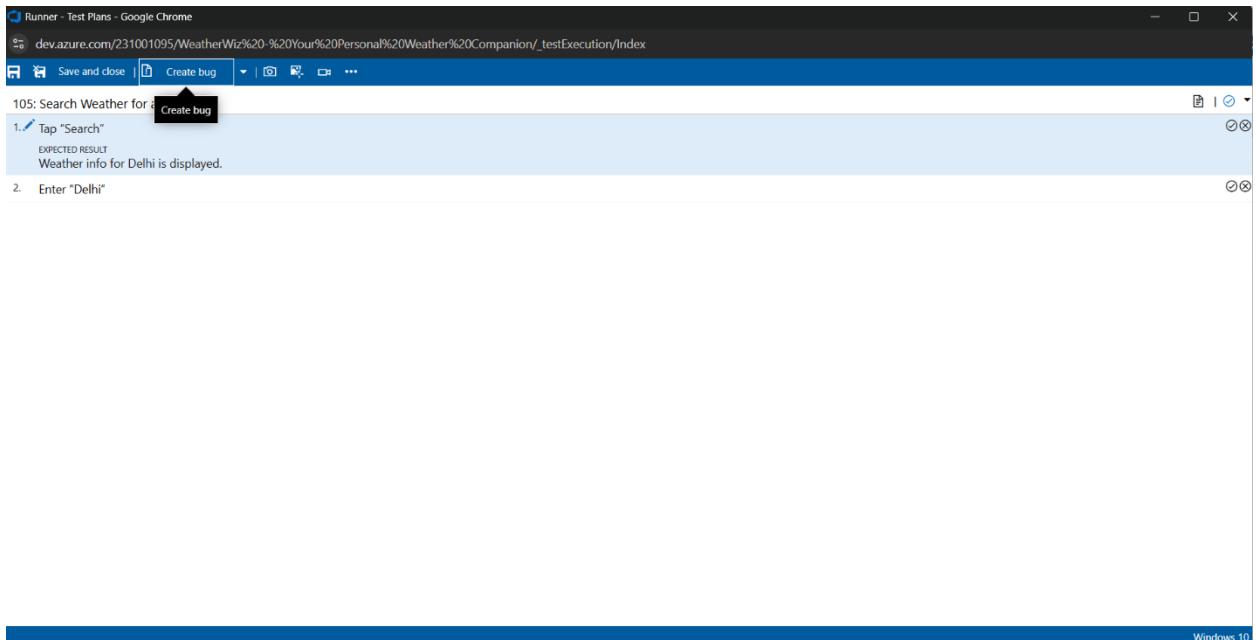
1. Running the test cases

The screenshot shows the Azure DevOps interface for the same project. The left sidebar is open, showing 'Test Plans' selected under 'Test plans'. In the main content area, a test case titled '102: Real-Time Weather Display' is selected. The 'Test' section details three steps: 1. Open app (EXPECTED RESULT: Current temperature and weather condition are shown), 2. Enable device location (EXPECTED RESULT: Weather icon displays correctly), and 3. Wait for weather to load. To the right, a 'Test Case Id' column shows values 1, 2, and 3. A floating 'Runner - Test Plans - Google Chrome' window is open, showing the test case details and the three steps listed above.

2. Recording the test case



3. Creating the bug



Runner - Test Plans - Google Chrome
dev.azure.com/231001095/WeatherWiz%20-%20Your%20Personal%20Weather%20Companion/_testExecution/Index

Save and close | Create bug | ...

103*: No Internet Weather Error

1. Turn off Wi-Fi/Mobile Data
2. Open the app

Internet Connectivity Error

NEW BUG +

Unassigned 0 comments Add tag Save & Close

State: New Area: WeatherWiz - Your Personal Weather Companion
Reason: New Iteration: WeatherWiz - Your Personal Weather Companion\Iteration 3

Repro Steps

5/23/2025 6:34 AM Bug filed on "No Internet Weather Error"

Step no.	Result	Title
1.	Passed	Turn off Wi-Fi/Mobile Data
		Expected Result
		Message: "Cannot fetch weather. Please check your internet connection."
2.	Failed	Open the app

Planning Deployment

Resolved Reason: 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.

Story Points: 2

Priority: 2

Severity: 3 - Medium

Activity:

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.

Effort (Hours): Original Estimate

Windows 10

Project settings <>

Runner - Test Plans - Google Chrome
dev.azure.com/231001095/WeatherWiz%20-%20Your%20Personal%20Weather%20Companion/_testExecution/Index

Save and close | Create bug | ...

106*: Invalid City Search

1. Tap "Search" in the search bar
2. Enter "Invalid City Name"

Invalid City Name

NEW BUG + Names Names and Named Unassigned 0 comments Add tag Save & Close

State: New Area: WeatherWiz - Your Personal Weather Companion
Reason: New Iteration: WeatherWiz - Your Personal Weather Companion\Iteration 3

System Info

Browser - Name	Google Chrome 136
Browser - Language	en-US
Browser - Height	764
Browser - Width	1483
Browser - User agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36
Operating system - Name	Windows NT 10.0; Win64; x64
Operating system - Architecture	x86_64
Operating system - Processor model	12th Gen Intel(R) Core(TM) i5-12450H
Operating system - Number of processors	12
Memory - Available	7054331904
Memory - Capacity	16831893504

Completed

Gleek

Tested By: Gleek 106 Invalid City Search Updated 37 minutes ago, ● Design

System Info

Found in Build
Integrated in Build

Windows 10

4. Test case results

The screenshot shows the Azure Test Case Setup interface. On the left, the navigation menu is visible with 'Test plans' selected. In the center, a test plan named 'WeatherWiz - Test Plan' is displayed, with 'TS02 - Location-Based Weather Search' selected. On the right, a detailed view of a test point titled 'Invalid City Search' is shown. The 'Execute' tab is active, displaying a table of test results:

Outcome	TimeSta...	Configuration	Run by	Tester	Test Pla...
Failed	Just now	Windows 10	Kishore JM	Meiappan P	Weath...

Below the table, a link 'Open execution history for current test point' is visible.

5. Test report summary

The screenshot shows the Azure Boards interface. The left sidebar is the navigation menu. In the center, a new work item for a bug is being created. The title is 'App fails to show "No Internet" message on weather fetch failure'. The details section includes:

- State: New
- Reason: New
- Area: WeatherWiz - Your Personal Weather Companion
- Iteration: WeatherWiz - Your Personal Weather Companion\Iteration 3
- Device: Samsung Galaxy A52 / iPhone 13
- Network: No internet (Wi-Fi and mobile data disabled)
- Environment: Production

The 'Effort (Hours)' section shows 'Original Estimate' and 'Remaining'. The 'Related Work' section has a link 'Add an existing work item as a parent'. The 'Gleek' section contains the text '9|eek_'. The 'System Info' section indicates the work item is 'Found in Build' and 'Integrated in Build'.

- Assigning bug to the developer and changing state

6. Progress report

The screenshot shows the 'Progress report' section for the 'WeatherWiz - Test Plan'. The left sidebar lists 'Test Plans' as the selected item under 'Test Plans'. The main area displays a summary of test plans, points, runs, and a pass rate of 83% (10/12). To the right is a chart titled 'Outcome trend' showing the number of tests over time, with a sharp increase starting around May 21st.

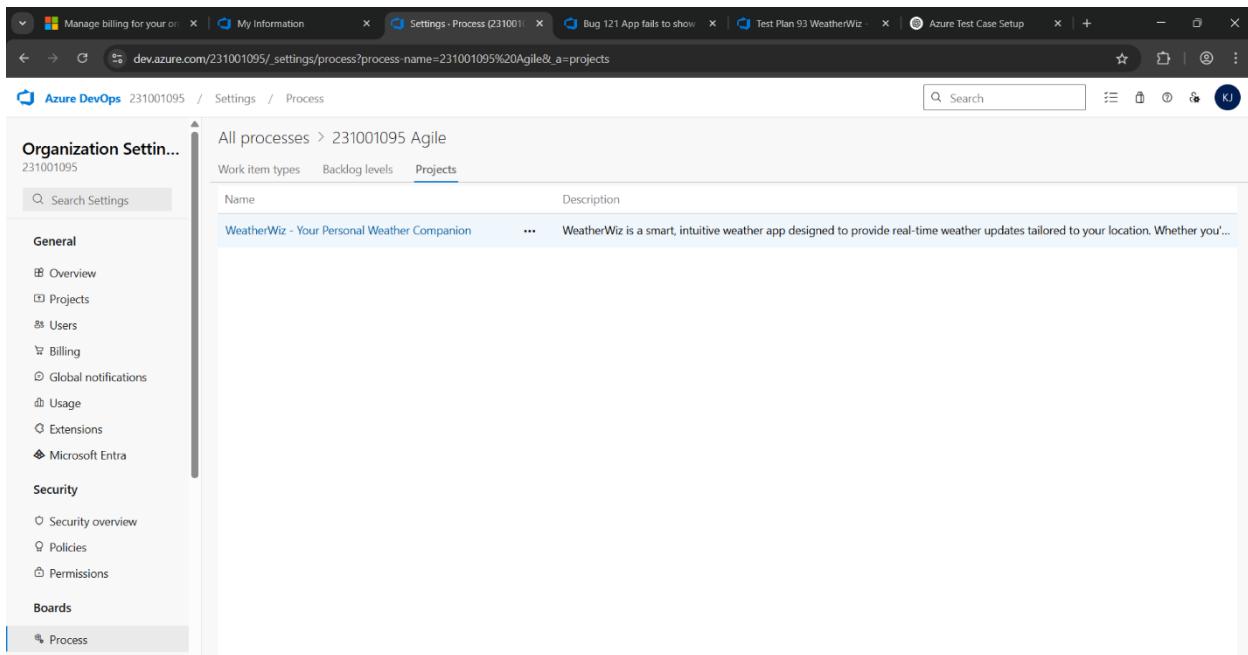
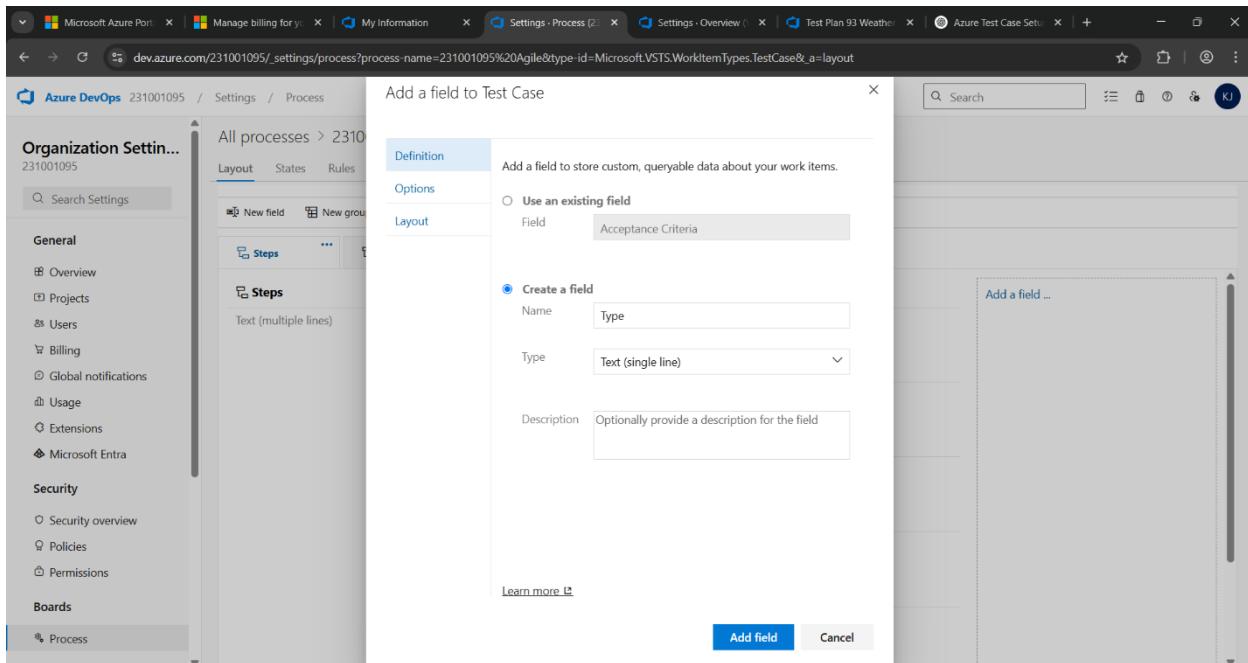
7. Changing the test template

The screenshot shows the 'Process' settings page. The left sidebar lists 'General', 'Security', and 'Boards' sections. The main area displays a table of available process templates: 'Basic (default)', 'Agile', 'Scrum', and 'CMMI'. The 'Agile' template is highlighted.

Name	Description	Team projects
Basic (default)	This template is flexible for any process and great for teams getting started with Az...	0
Agile	... This template is flexible and will work great for most teams using Agile planning me...	1
Scrum	This template is for teams who follow the Scrum framework.	0
CMMI	This template is for more formal projects requiring a framework for process improv...	0

The screenshot shows the 'Process' section of the Azure DevOps settings. On the left, a sidebar lists various settings categories like General, Security, Boards, Pipelines, etc., with 'Process' selected. The main area displays a table titled 'All processes' under the 'Processes' tab. The table has columns for 'Name', 'Description', and 'Team projects'. It lists several templates: 'Basic' (description: 'This template is flexible for any process and great for teams getting started with Azure DevOps.', 0 team projects), 'Agile' (description: 'This template is flexible and will work great for most teams using Agile planning methods, including those pract...', 1 team project, with a sub-item '231801095 Agile (default)'), 'Agile Plus' (0 team projects), 'Scrum' (description: 'This template is for teams who follow the Scrum framework.', 0 team projects), and 'CMMI' (description: 'This template is for more formal projects requiring a framework for process improvement and an auditable reco...', 0 team projects). A search bar and filter button are at the top right, and a help link is in the top center.

8. View the new test case template



The screenshot shows the Azure DevOps Settings - Process page for a process named "231001095 Agile". The left sidebar shows "Organization Settings" for "231001095" with sections like General, Security, and Boards. The main area displays the "Test Case" configuration, which includes fields for "Steps" (Text (multiple lines)), "Recent test results" (Recent test case results), "Deployment" (Deployments), "Development" (Links), "Related Work" (Links), and "Status" (Priority: Integer). The top navigation bar has tabs for My Information, Settings, Bug, Test Plan, and Azure Test Case Setup.

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
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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:

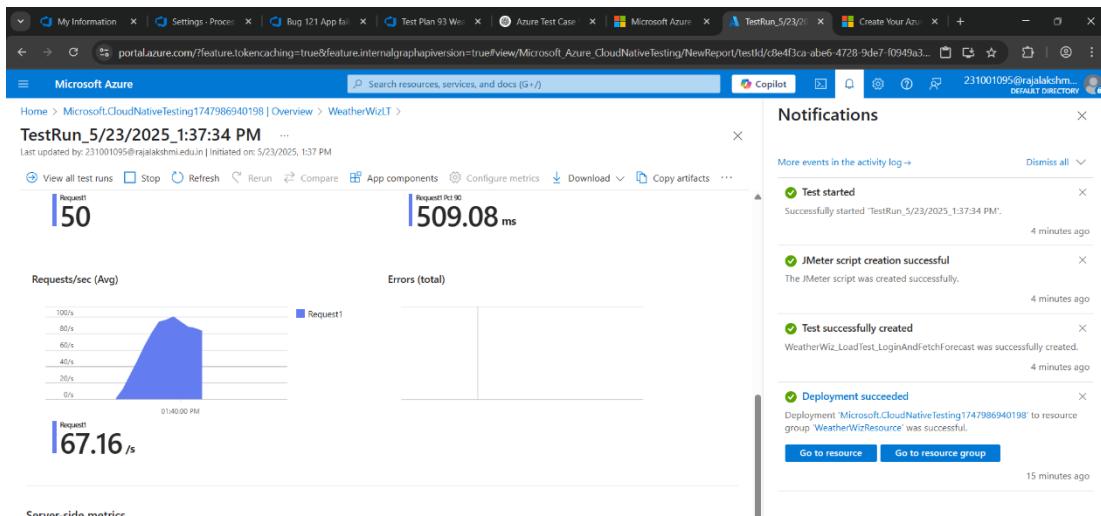
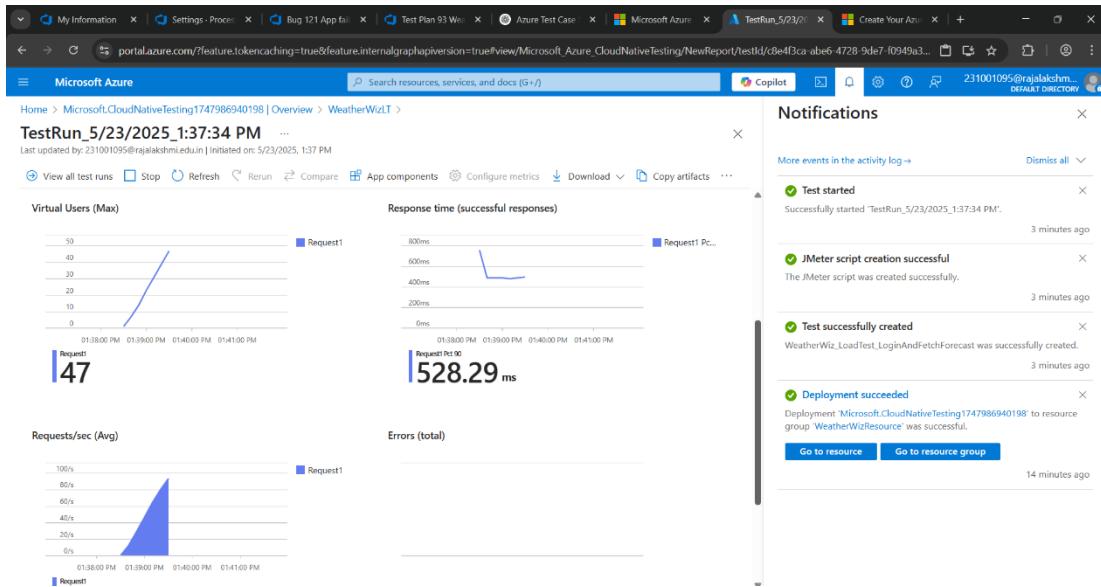
1. Sign in to Azure Portal
Go to <https://portal.azure.com> and log in.
2. Create the Resource
 - o Go to *Create a resource* → Search for “Azure Load Testing”.
 - o Select Azure Load Testing and click Create.
3. Fill in the Configuration Details
 - o *Subscription*: Choose your Azure subscription.
 - o *Resource Group*: Create new or select an existing one.
 - o *Name*: Provide a unique name (no special characters).
 - o *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.

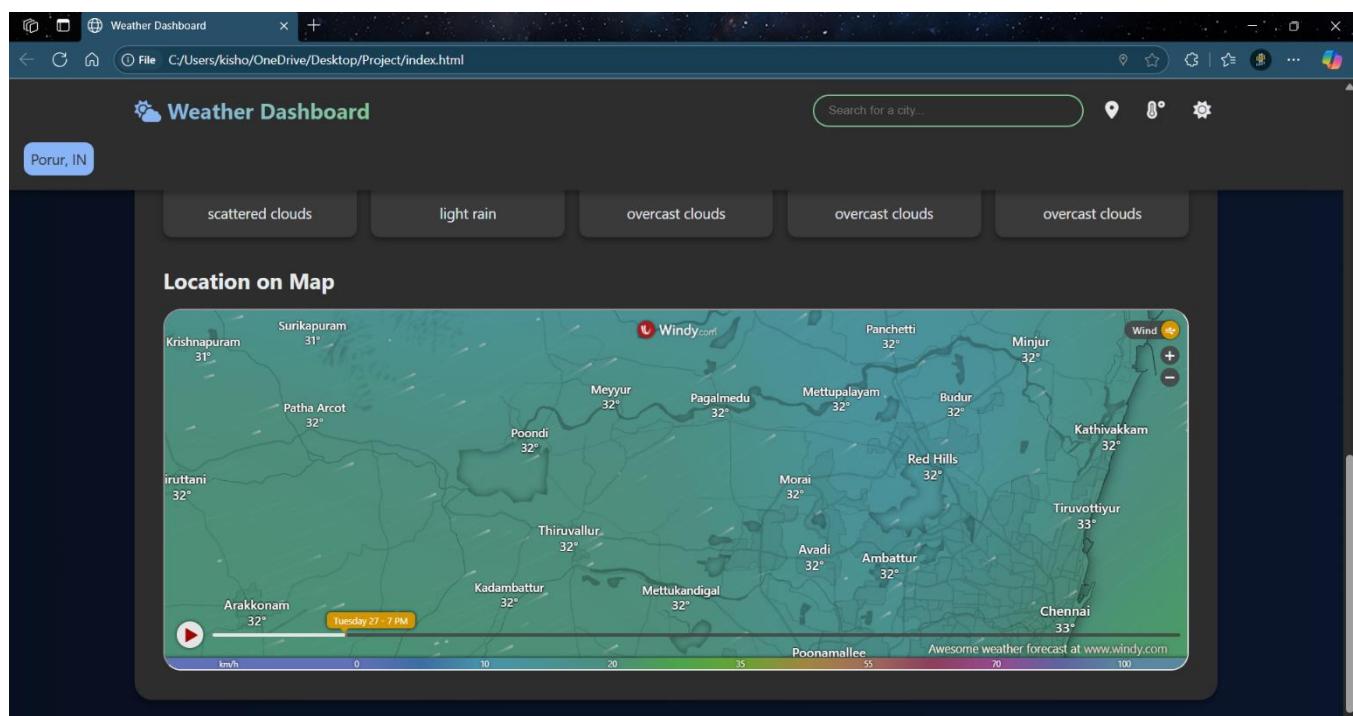
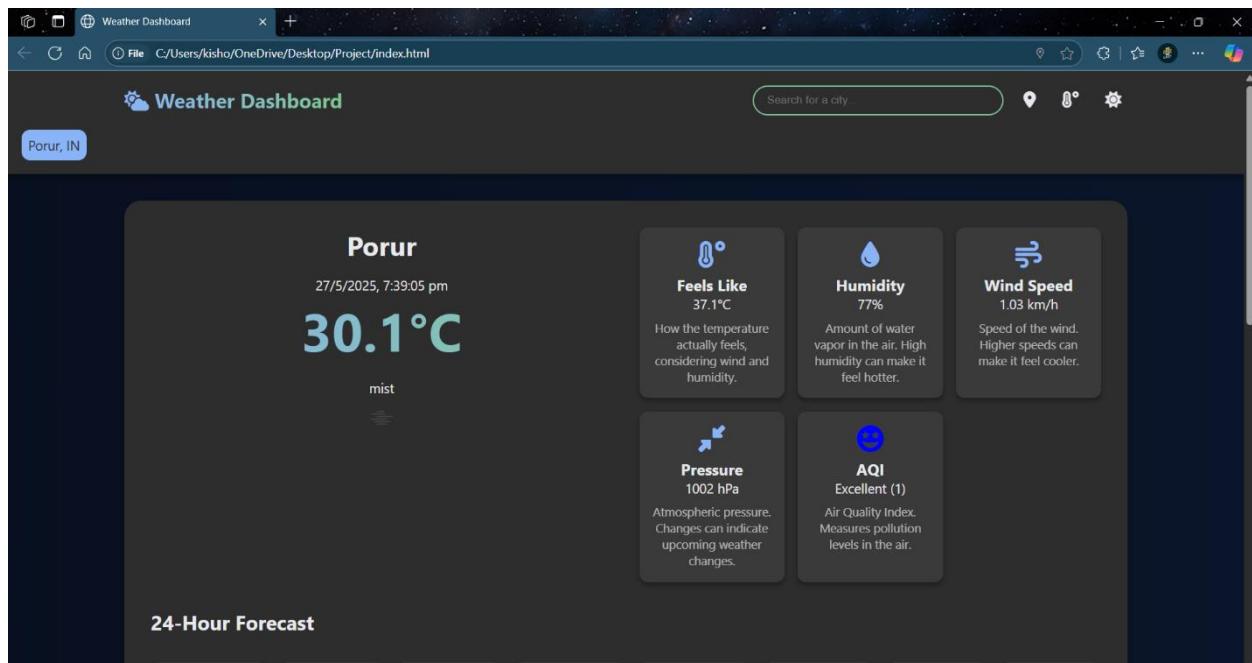
Steps to Create and Run a Load Test:

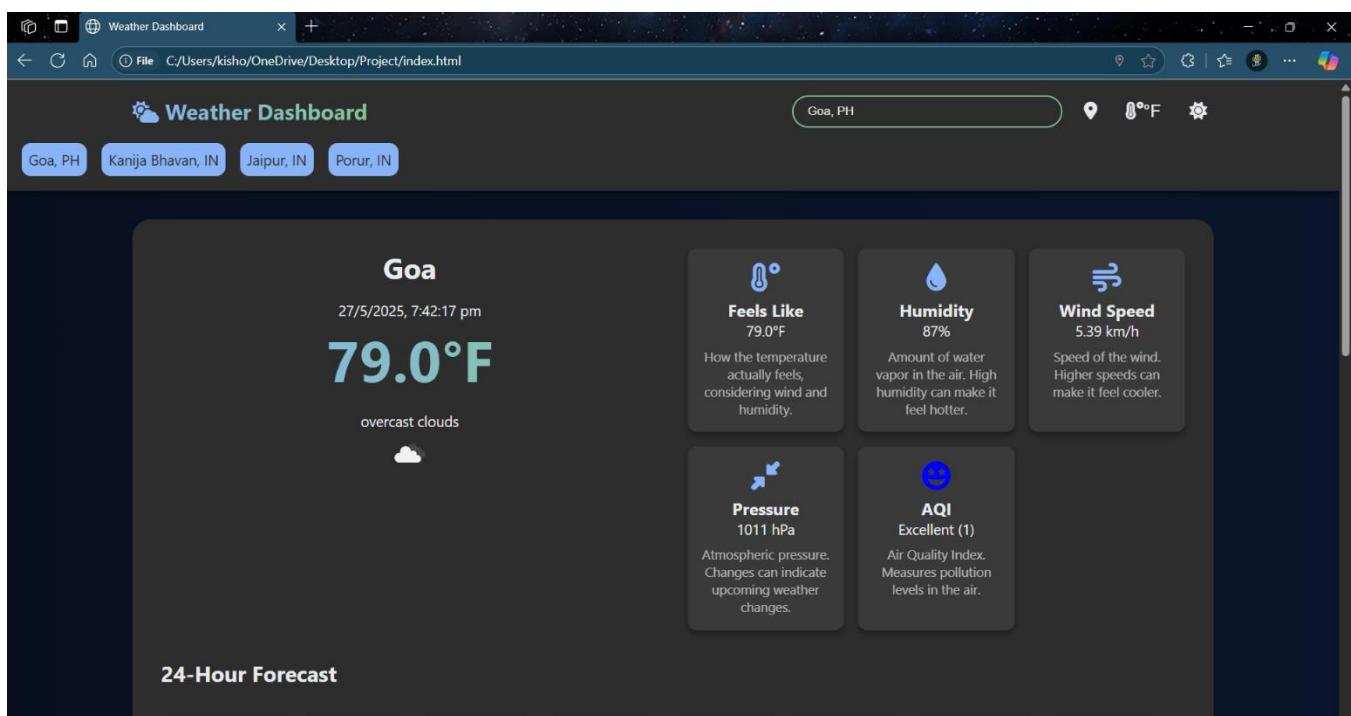
Once your resource is ready:

1. Go to your Azure Load Testing resource and click Add HTTP requests > Create.
2. Basics Tab
 - o *Test Name*: Provide a unique name.
 - o *Description*: (Optional) Add test purpose.
 - o *Run After Creation*: Keep checked.
3. Load Settings
 - o *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.

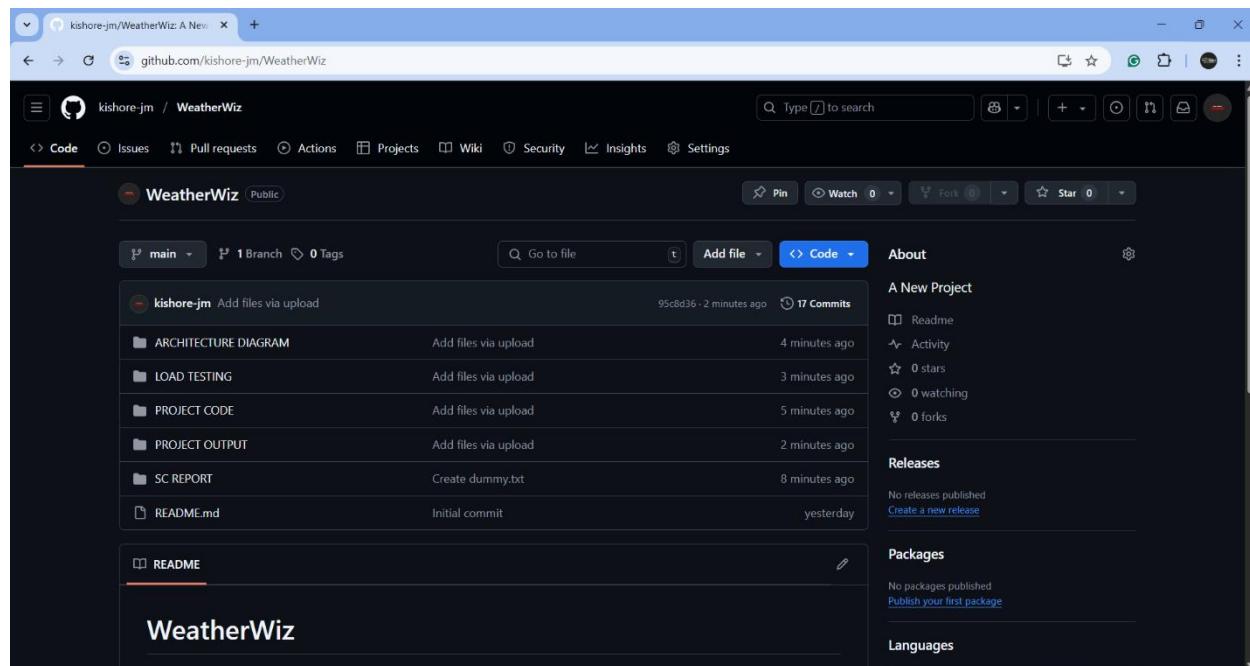
EXP NO: 10

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 WeatherWiz - Weather Companion 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.