

**EXP NO: 1**

## **AZURE DEVOPS ENVIRONMENT SETUP**

### **Aim:**

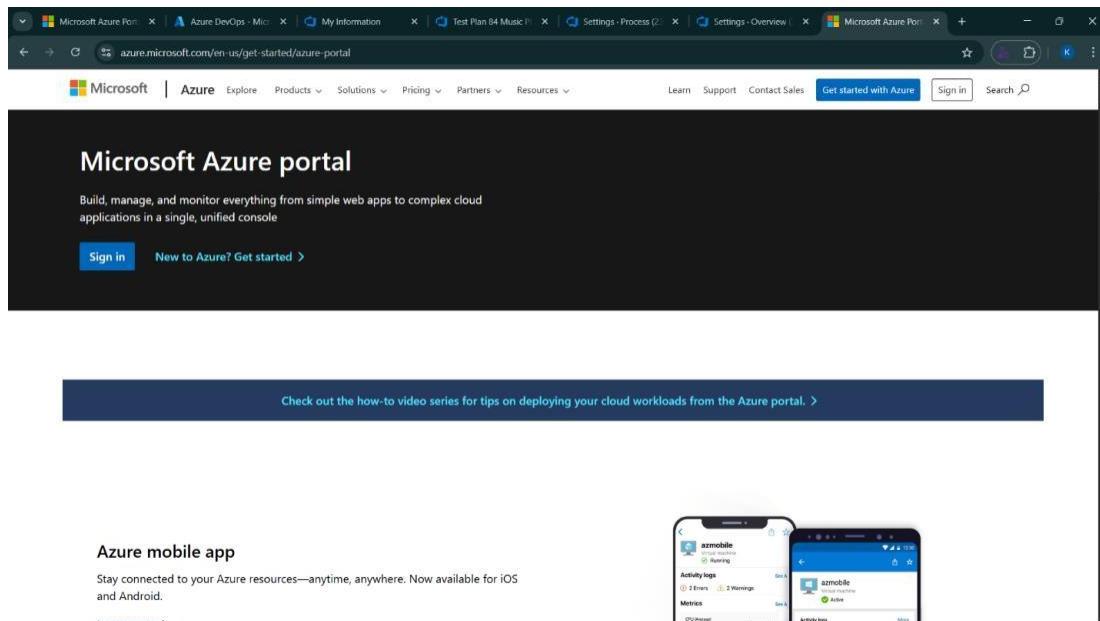
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

### **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 user profile icon. Below the header, a banner says "Welcome to Azure!" with a message about free trials and Microsoft Entra ID. There are three main promotional cards:

- Start with an Azure free trial**: Get \$200 free credit toward Azure products and services, plus 12 months of popular free services. Includes a "Start" button.
- Manage Microsoft Entra ID**: Manage access, set smart policies, and enhance security with Microsoft Entra ID. Includes a "View" button and a "Learn more" link.
- Azure for Students**: Get free software, Azure credit, or access Azure Dev Tools for Teaching after you verify your academic status. Includes a "Start" button.

Below these cards, there's a section for "Azure services" with a search bar containing "DevOps". A list of services is shown, including "Azure DevOps organizations" which is highlighted. Other visible services include "Kubernetes services", "Static Web App", "Rocky Linux 9", "Build Agents for Azure DevOps", and "InfluxDB Cloud (Official Version)".

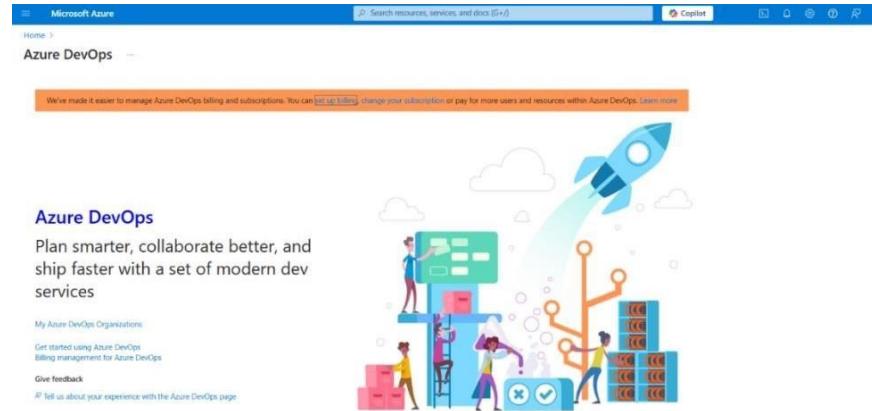
## 3. Open DevOps environment in the Azure platform by typing *Azure DevOps Organizations* in the search bar.

The screenshot shows the Microsoft Azure search results for "Azure DevOps Organizations". The search bar at the top has "DevOps" typed into it. The results list includes:

- Services**:
  - Azure Native New Relic Service
  - Managed DevOps Pools
  - Azure DevOps organizations
  - Azure Native Dynatrace Service
- Marketplace**:
  - Static Web App
  - Rocky Linux 9
  - Build Agents for Azure DevOps
  - InfluxDB Cloud (Official Version)
- Documentation**:
  - DevOps architecture design - Azure Architecture Center
  - Secure your Azure DevOps - Azure DevOps
  - Course AZ-400T00-A: Designing and Implementing Microsoft DevOps solutions - T...
  - Managed DevOps Pools Overview - Managed DevOps Pools
- Microsoft Entra ID**:
  - Azure DevOps
  - Continue searching in Microsoft Entra ID

On the right side of the search results, there are sections for "Kubernetes services", "Last Viewed" (Static Web App, Rocky Linux 9, Build Agents for Azure DevOps, InfluxDB Cloud), and "Cost Management". The URL in the address bar is <https://portal.azure.com/#blade/Azure%20Extensions/OrganizationsTemplateBlade>.

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.

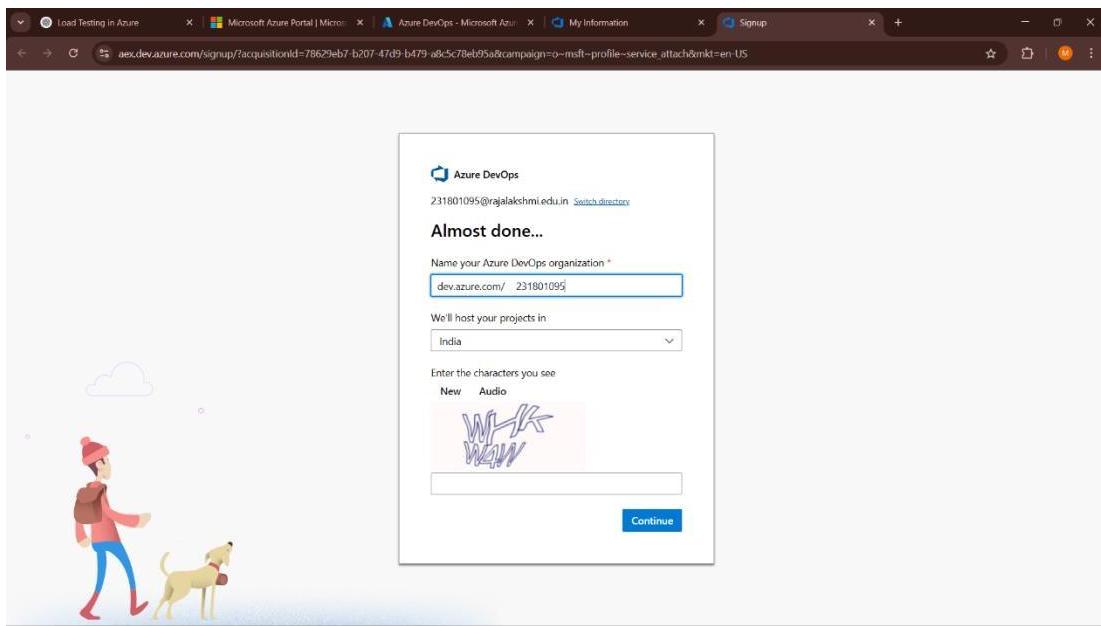
**EXP NO: 2**

## **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., **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).

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

## Create new project

Project name \*

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.

By creating this project, you agree to the Azure DevOps [code of conduct](#)

Advanced

Version control [?](#)

Git

Work item process [?](#)

231801095 Agile

Cancel **Create**

The screenshot shows the 'Create new project' dialog box. The 'Project name' field contains 'Music Playlist Batch Creator'. The 'Visibility' section shows 'Public' is selected, with a note that anyone on the internet can view the project. The 'Advanced' section is expanded, showing 'Version control' set to 'Git' and 'Work item process' set to '231801095 Agile'. At the bottom are 'Cancel' and 'Create' buttons.

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, there's a purple circular profile picture with the letters 'VV'. The top navigation bar includes 'Create new organization' and 'Actions Open in Visual Studio'. On the left, under 'Projects', there's a single item: 'Sms Text Message Service' (Owner: dev.azure.com/231001243). Below it are 'New project' and 'Actions' buttons. On the left side, there's a user profile section for 'Vignesh V' with email '231001243@rajalakshmi.edu.in', location 'India', and email '231001243@rajalakshmi.edu.in'. Below that is a 'Visual Studio Dev Essentials' section with a brief description: 'Get everything you need to build and deploy your app on any platform.' There are also 'Edit profile' and '... more' buttons.

#### 4. Project dashboard

The screenshot shows the 'Sms Text Message Service' project dashboard. The left sidebar has a tree view with 'Sms Text Message Ser...' expanded, showing 'Overview', 'Summary' (selected), 'Dashboards', 'Wiki', 'Boards', 'Repos', 'Pipelines', 'Test Plans', and 'Artifacts'. The main content area has a green header bar with the project name 'Sms Text Message Service'. Below it is a 'About this project' section with a detailed description of the tool's features, including Bulk Message Creation, Custom Templates, Scheduling & Automation, Compliance & Filtering, Analytics & Reporting, User-Friendly Interface, Integration Capabilities, Use Cases, Marketing Campaigns, Event Notifications, Customer Service, and Emergency Alerts. To the right is a 'Project stats' section showing 'Boards' (0 work items created, 0 completed), 'Members' (5 users listed with icons), and a 'Period: Last 7 days' dropdown. At the bottom left of the main content area is a 'Project settings' button.

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 Azure Boards interface for the 'Sms Text Message Service Team'. The left sidebar is collapsed, showing options like Overview, Boards, Work items, Boards, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The 'Backlogs' option is selected. The main area displays a backlog of user stories. At the top right, there are buttons for '+ New Work Item', 'View as Board', and 'Column Options'. A search bar is at the top center. The backlog table has columns: Order, Work Item Type, Title, State, Story..., Value Area, Iteration Path, and Tags. Nine user stories are listed, all marked as 'New' and assigned to 'Business' in the 'Value Area' column. The 'Iteration Path' column shows 'Sms Text Message Service'. The right side of the screen features a 'Planning' section with a message about dragging work items to include them in a sprint, a 'Sprint 1' section indicating 'No work scheduled yet', and a '+ New Sprint' button.

Order	Work Item Type	Title	State	Story...	Value Area	Iteration Path	Tags
1	User Story	OTP For User Registration	New		Business	Sms Text Message Service	
2	User Story	Message Text Send	New		Business	Sms Text Message Service	
3	User Story	Receive SMS Message	New		Business	Sms Text Message Service	
4	User Story	Multi-Language Support	New		Business	Sms Text Message Service	
5	User Story	Delivery Report	New		Business	Sms Text Message Service	
6	User Story	Message Deletion	New		Business	Sms Text Message Service	
7	User Story	Message Templates	New		Business	Sms Text Message Service	
8	User Story	Message History	New		Business	Sms Text Message Service	
9	User Story	Blocking Contacts	New		Business	Sms Text Message Service	

**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**

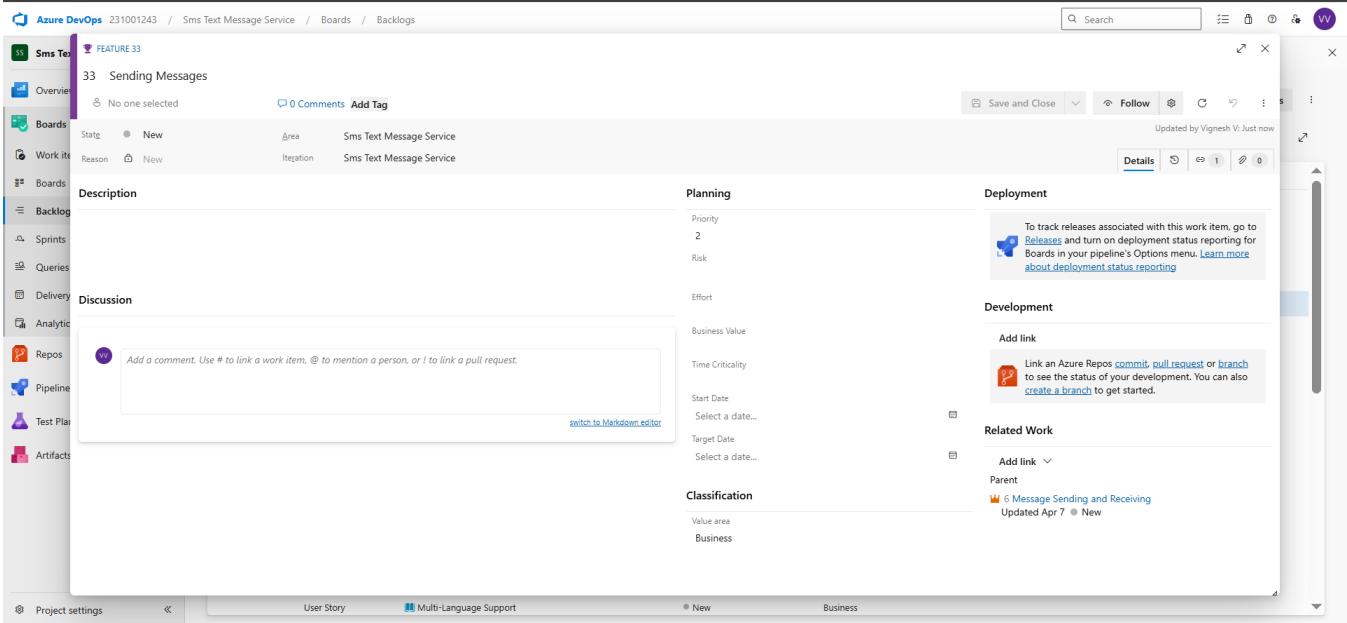
The screenshot shows the Azure Boards interface with the 'Backlog' tab selected. The backlog is organized into several epics, each containing one or more user stories and features. The columns include Order, Work Item Type, Title, State, Effort, Business Area, and Tags. The backlog items are as follows:

Order	Work Item Type	Title	State	Effort	Business Area	Tags
1	Epic	User Registration and Authentication	New		Business	
	Feature	User Registration	New		Business	
	User Story	As an user need an OTP For User Registration	New		Business	
2	Epic	Message Sending and Receiving	New		Business	
	Feature	Sending Messages	New		Business	
	Feature	Receiving Messages	New		Business	
3	User Story	Message Text Send	New		Business	
	User Story	Receive SMS Message	New		Business	
	Feature	Contact Management	New		Business	
4	Feature	Blocking Contacts	New		Business	
	User Story	As an user I need to add and update Contacts	New		Business	
	User Story	Search for specific messages in my history so that I can e...	New		Business	
5	Epic	Message History and Search	New		Business	
	Feature	Message History	New		Business	
	User Story	Search for specific messages in my history so that I can e...	New		Business	
	Epic	Multi-Language Support	New		Business	
	Feature	Multi-Language Support	New		Business	
	User Story	Multi-Language Support	New		Business	

### **1. Fill in Epics**

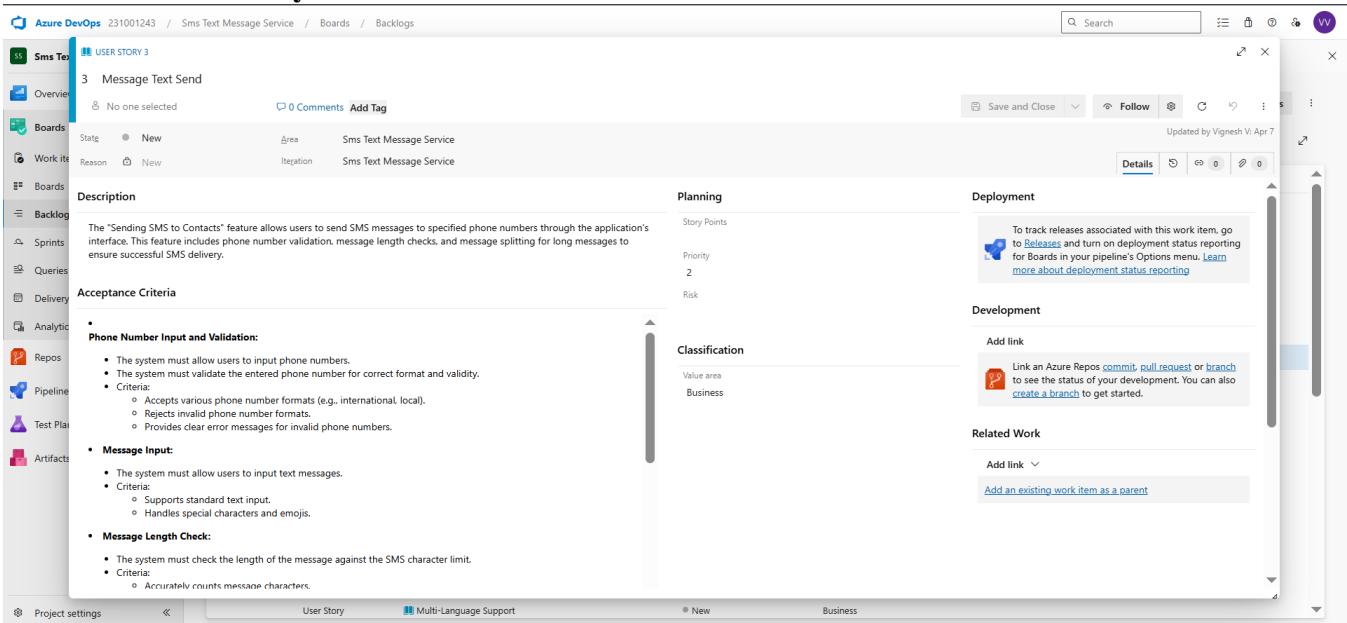
The screenshot shows the 'Edit work item' dialog for an epic titled 'User Registration and Authentication'. The dialog includes sections for Description, Planning, Deployment, Development, and Related Work. The 'Description' section contains the text: 'Allow users to register using their phone numbers and verify their accounts via SMS.' The 'Planning' section shows priority set to 2 and risk as low. The 'Deployment' section has a note about tracking releases. The 'Development' section has a note about linking to Azure Repos. The 'Related Work' section shows a child work item for 'User Registration'.

## 2. Fill in Features



Azure DevOps Boards page showing Feature 33: Sending Messages. The feature is marked as New, assigned to the Sms Text Message Service area, and has a priority of 2. The Planning section includes fields for Story Points, Priority, and Risk. The Deployment section includes links to Releases and Boards. The Development section includes links to Azure Repos and Branches. The Related Work section shows 6 items. The Classification section indicates the feature is in the Business value area.

## 3. Fill in User Story Details



Azure DevOps Boards page showing User Story 3: Message Text Send. The story is marked as New, assigned to the Sms Text Message Service area, and has a priority of 2. The Planning section includes fields for Story Points, Priority, and Risk. The Deployment section includes links to Releases and Boards. The Development section includes links to Azure Repos and Branches. The Related Work section shows 0 items. The Classification section indicates the story is in the Business value area.

**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 Music Playlist Batch Creator Project.

## Sprint Planning

### Sprint 1

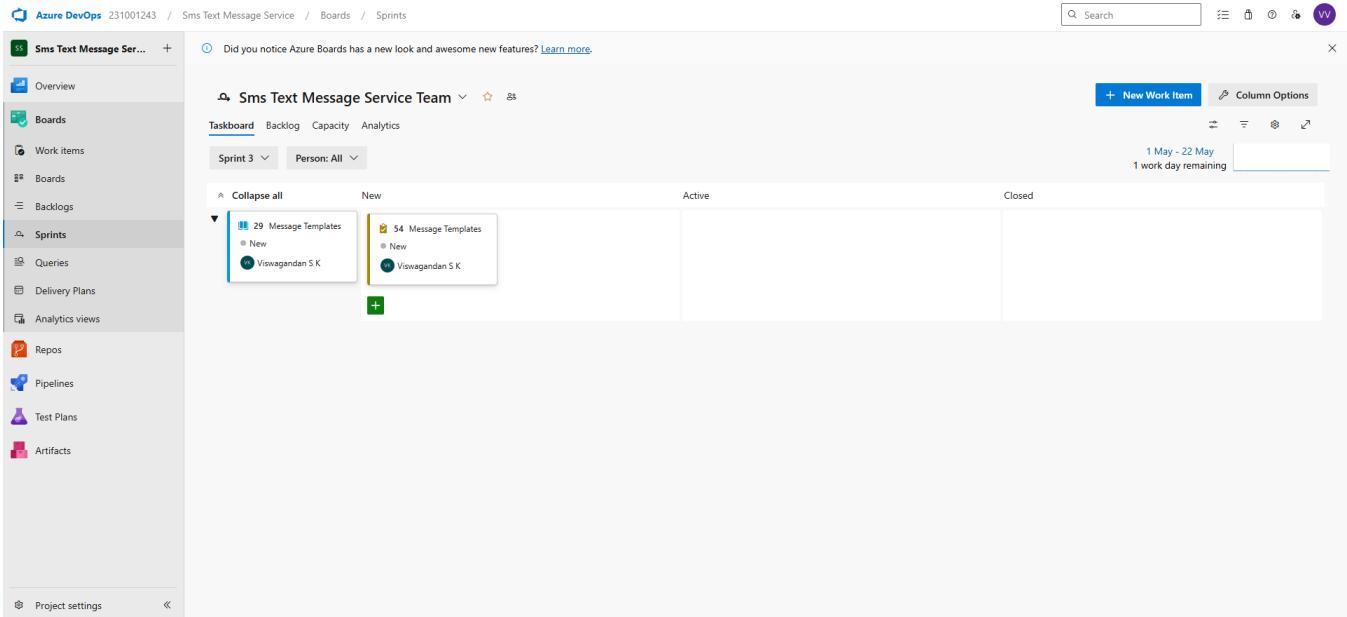
The screenshot shows the Azure Boards Taskboard for the 'Sms Text Message Service Team' under 'Sprint 1'. The backlog contains two user stories: '50 As an user i need an OTP For User Registration' and '51 OTP Verification on First Login', both assigned to 'VIKRAMV V'.

<https://dev.azure.com/231001243>

### Sprint 2

The screenshot shows the Azure Boards Taskboard for the 'Sms Text Message Service Team' under 'Sprint 2'. The backlog contains two user stories: '4 Recieve SMS Message' and '53 Receive SMS Message', both assigned to 'Vignesh V'.

## Sprint 3



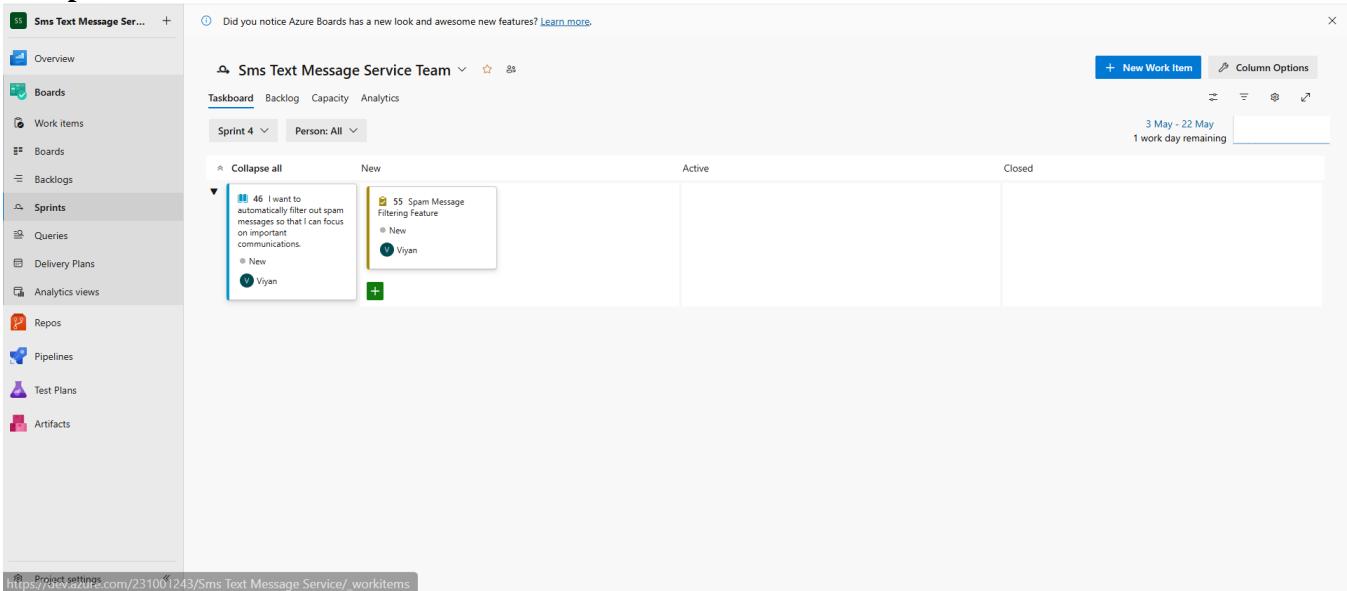
Azure DevOps Taskboard for Sprint 3. The board shows two columns: New and Active. In the New column, there are two items: "29 Message Templates" and "54 Message Templates". Both items are marked as "New" and assigned to "Viswagandan S K". The Active column is currently empty.

Taskboard for Sprint 3

1 May - 22 May  
1 work day remaining

New	Active	Closed
29 Message Templates New Viswagandan S K		
54 Message Templates New Viswagandan S K		

## Sprint 4



Azure DevOps Taskboard for Sprint 4. The board shows three columns: New, Active, and Closed. In the New column, there are two items: "46 I want to automatically filter out spam messages so that I can focus on important communications." and "55 Spam Message Filtering Feature". Both items are marked as "New" and assigned to "Viyan". The Active column is currently empty.

Taskboard for Sprint 4

3 May - 22 May  
1 work day remaining

New	Active	Closed
46 I want to automatically filter out spam messages so that I can focus on important communications. New Viyan		
55 Spam Message Filtering Feature New Viyan		

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## Sprint 5

The screenshot shows the Azure Boards interface for the project "Sms Text Message Service Team". The left sidebar navigation includes Overview, Boards, Work items, Boards, Backlogs, Sprints (selected), Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays the Taskboard for Sprint 5. The backlog section shows two items:

- Item 47: "I want to participate in group messaging so that I can communicate with multiple people simultaneously." - Status: New, Assigned to A.Vijay.
- Item 56: "Group Messaging Feature" - Status: New, Assigned to A.Vijay.

At the top right, there are buttons for "New Work Item", "Column Options", and date range "6 May - 22 May". Below the date range, it says "1 work day remaining".

### Result:

The Sprints are created for the Project.

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**EXP NO: 5**

## **POKER ESTIMATION**

### **Aim:**

Create Poker Estimation for the user stories - Music Playlist Batch Creator Project.

### **Poker Estimation**

The screenshot shows a detailed view of a User Story card in Azure DevOps. The card is titled "USER STORY 43" and describes the requirement: "As an user i need an OTP For User Registration". The card includes sections for Planning (Story Points: 4, Priority: 2), Classification (Value area: Business), and Deployment (instructions to track releases). The Acceptance Criteria section lists several bullet points under categories like "First Login Detection", "OTP Generation", "OTP Delivery", and "OTP Prompt and Input". The sidebar on the left shows navigation links for Boards, Work Items, Backlog, Sprints, Queries, Delivery, Analytics, Repos, Pipeline, Test Plans, and Artifacts. The top right corner shows a "Save and Close" button and a timestamp indicating the item was updated 18m ago by Vignesh V.

### **Result:**

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

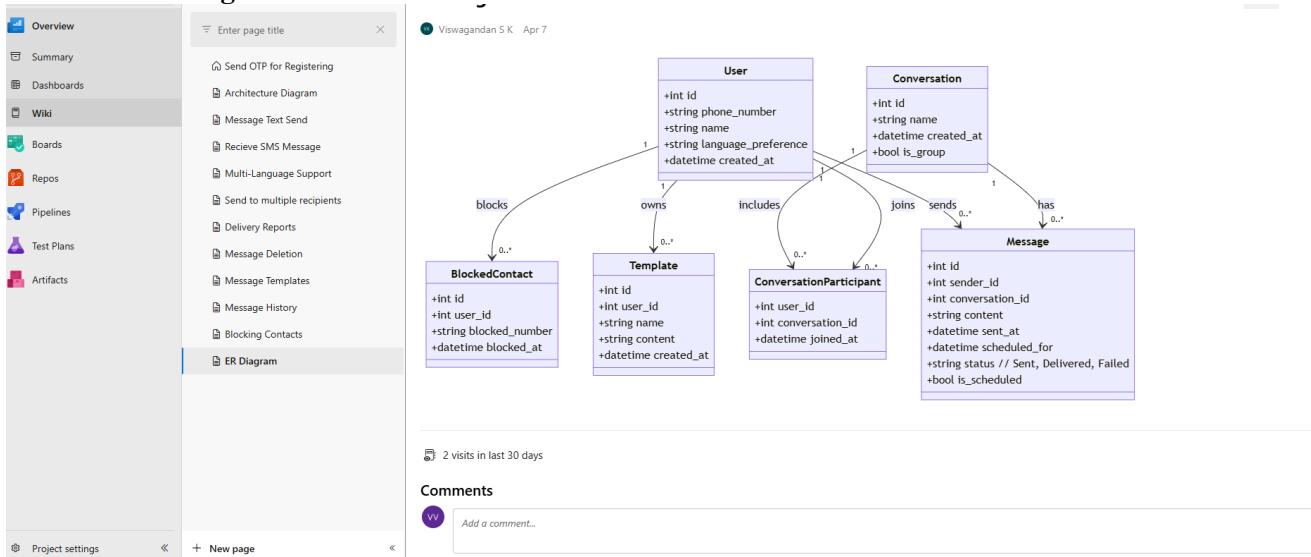
**EXP NO: 6**

## **DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE**

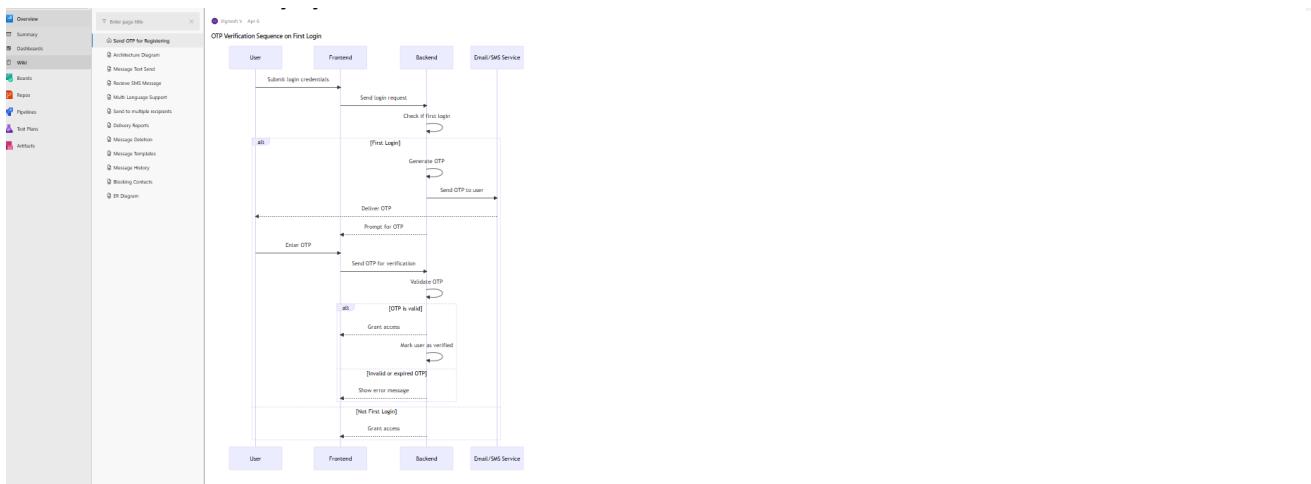
### **Aim:**

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.

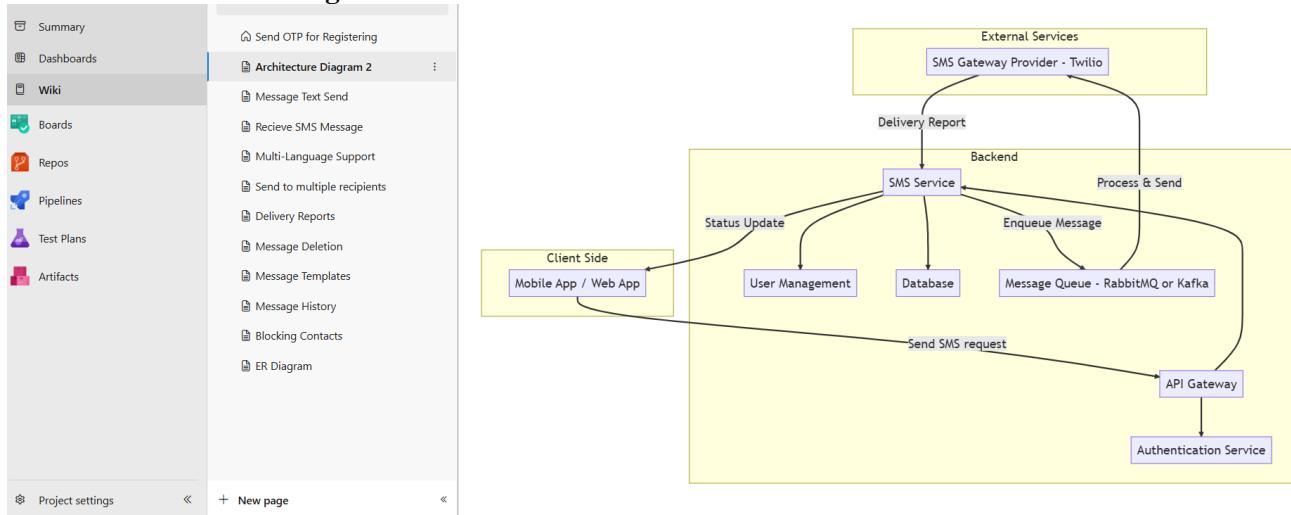
**EXP NO: 7**

## **DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE**

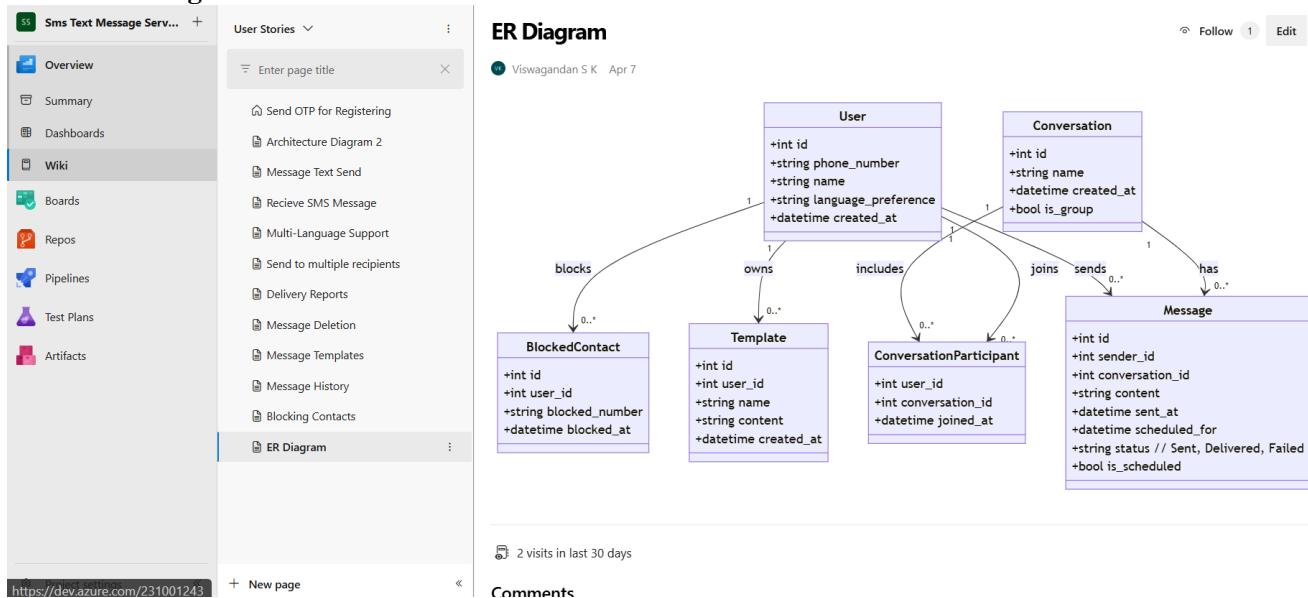
### **Aim:**

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 Music Playlist Batch Creator

<b>EXP NO: 8</b>	<b>TESTING – TEST PLANS AND TEST CASES</b>
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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**

- User Signup & Login
- Viewing and Managing Playlists
- Fetching Real-time Metadata
- Editing playlists (rename, reorder, record)
- Creating smart audio playlists based on categories (mood, genre, artist, etc.)

**2. Define User Interactions**

- Each test case simulates a real user behaviour (e.g., logging in, renaming a playlist, adding a song).

**3. Design Happy Path Test Cases**

- Focused on validating that all features function as expected under normal conditions.
- Example: User logs in successfully, adds item to playlist, or creates a category-based playlist.

**4. Design Error Path Test Cases**

- Simulate negative or unexpected scenarios to test robustness and error handling.
- Example: Login fails with invalid credentials, save fails when offline, no recommendations found.

**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, TC10 – Save Playlist Fails).
- Helps in quick identification and linking to user stories or features.

**7. Separate Test Suites**

- Grouped test cases based on functionality (e.g., Login, Playlist Editing, Recommendation System).

- Improves organization and test execution flow in Azure DevOps.

## 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 'Test Plans' section of the Azure DevOps interface. On the left, there's a sidebar with options like Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Runs, and Artifacts. The 'Test Plans' option is selected. The main area displays a table titled 'Test Plans' with columns: Title, Test Plan ID, State, Area Path, Iteration, and Assigned To. There are five entries listed:

Title	Test Plan ID	State	Area Path	Iteration	Assigned To
Sms Text Message Service Team...	86	Active	Sms Text Message Service	Sms Text Message Service\Sj	Viswagandan S K
Sms Text Message Service Team...	82	Active	Sms Text Message Service	Sms Text Message Service\Sj	Viswagandan S K
Sms Text Message Service Team...	70	Active	Sms Text Message Service	Sms Text Message Service\Sj	Viswagandan S K
Sms Text Message Service Team...	62	Active	Sms Text Message Service	Sms Text Message Service	Viswagandan S K
Sms Text Message Service Team...	58	Active	Sms Text Message Service	Sms Text Message Service\Sj	Viswagandan S K

2.

The screenshot shows the 'New Test Plan' dialog box. The sidebar on the left is identical to the previous screenshot. The main form has three fields: 'Name' (filled with 'Music Playlist Batch Creator - Test Plan'), 'Area Path' (set to 'Music Playlist Batch Creator'), and 'Iteration' (set to 'Music Playlist Batch Creator\Integration'). At the bottom right are 'Create' and 'Cancel' buttons.

### 3. Test suite

The screenshot shows the Microsoft Azure DevOps Test Plan interface. On the left, there's a sidebar with various project management options like Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Parameters, Configurations, Runs, and Artifacts. The main area displays a test suite titled "TS01 - User Login (ID: 86)". The suite has a status bar indicating "Apr 10 - Apr 17" and "100% run, 100% passed, View report". Below the status, there are tabs for "Define" and "Execute" (which is selected). A search bar and a help icon are at the top right. The "Test Suites" section shows a single item: "Music Playlist Batch Creator - Test Plan". Under "Test Cases (4 items)", there is a table:

Title	Order	Test Case Id	Assigned To	Status
I01 - Successful Sign Up	1	78	Karthikayen Se...	Design
Static suite	2	80	Karthikayen Se...	Design
Requirement based suite	3	81	Karthikayen Se...	Design
Query based suite	4	82	Karthikayen Se...	Design

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#### **4. Test case**

##### **USER STORIES**

- As a user, I need an OTP for user registration (ID: 43, 50). As a user, I need to see my playlist in one place (ID: 76).
- As a user, I need to add and update contacts As a user, I should be able to rename, record, and change the playlist (ID: 68).
- As a user, I want to block contacts (ID: 31).

##### **Test Suites**

**Test Suit: TS01 - User Login (ID: 86)**

**Test Suite: TS01 - User Registration and Login (ID: 101)**

**1. TC01 – Successful Sign Up with OTP**

- **Action:** Go to Sign-Up → enter name/email/password → receive OTP → enter OTP → click Sign Up.
- **Expected Results:** User registered, OTP verified, redirected to dashboard.
- **Type:** Happy Path

**2. TC02 – Secure Login**

- **Action:** Enter email/password → click Login.
- **Expected Results:** User is logged in securely and redirected to dashboard.
- **Type:** Happy Path

**3. TC03 – Sign Up with Existing Email**

- **Expected Result:** Error "Email already registered".
- **Type:** Error Path

**4. TC04 – Login with Wrong Password**

- **Expected Result:** Error "Invalid username or password".
- **Type:** Error Path

**TestSuite: TS02 - Contact Management (ID: 102)**

**1. TC05 – Add New Contact**

- **Action:** Navigate to Contacts → Add new contact.
- **Expected Results:** Contact saved.
- **Type:** Happy Path

**2. TC06 – Update Existing Contact**

- **Expected Results:** Contact information updated successfully.
- **Type:** Happy Path

**3. TC07 – Block a Contact**

- **Expected Result:** Contact is added to block list.
- **Type:** Happy Path

## **Test Suite: TS03 - Messaging and Notifications (ID: 103)**

1. **TC08 – Real-Time Notification on Message Received**
  - **Expected Result:** Notification appears immediately.
  - **Type:** Happy Path
2. **TC09 – Manage Notification Preferences**
  - **Expected Result:** User sets do-not-disturb or priority alerts.
  - **Type:** Happy Path
3. **TC10 – Group Messaging Functionality**
  - **Expected Result:** Messages delivered to and from multiple users in a group.
  - **Type:** Happy Path
- 4.

## **Test Suite: TS04 - Spam Filtering and Message History (ID: 104)**

1. **TC11 – Automatic Spam Filtering**
  - **Expected Result:** Spam messages are separated from main inbox.
  - **Type:** Happy Path
2. **TC12 – Message History Search**
  - **Expected Result:** Relevant messages are shown when searched by keyword or sender.
  - **Type:** Happy Path
3. **TC13 – Spam Filtering Failure**
  - **Expected Result:** Message appears in inbox; marked manually.
  - **Type:** Error Path

## **Test Suite: TS05 – Advanced Messaging Features (ID: 105)**

TC14 – Send OTP for User Registration

Action:

Go to the Sign-Up page → Enter user details → Request OTP → OTP sent via SMS.

Expected Results:

OTP is received within a few seconds; user can use it to complete registration.

Type: Happy Path

---

TC15 – OTP Expiration Handling

Action:

Wait beyond OTP validity time → Try using expired OTP.

Expected Results:

Error message: “OTP expired. Please request a new one.”

Type: Error Path

---

## TC16 – Group Messaging with Multiple Users

Action:

Create a group → Add users → Send a message.

Expected Results:

All group members receive the message.

Type: Happy Path

---

## Test Suite: TS05 – Advanced Messaging Features (ID: 105)

### *TC14 – Send OTP for User Registration*

- **Action:**  
Go to the Sign-Up page → Enter user details → Request OTP → OTP sent via SMS.
- **Expected Results:**  
OTP is received within a few seconds; user can use it to complete registration.
- **Type:** Happy Path

---

### *TC15 – OTP Expiration Handling*

- **Action:**  
Wait beyond OTP validity time → Try using expired OTP.
- **Expected Results:**  
Error message: “OTP expired. Please request a new one.”
- **Type:** Error Path

---

### *TC16 – Group Messaging with Multiple Users*

- **Action:**  
Create a group → Add users → Send a message.
- **Expected Results:**  
All group members receive the message.
- **Type:** Happy Path

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### *TC17 – Group Message Delivery Failure*

- **Action:**  
Send a message in a group with one or more users offline.
- **Expected Results:**  
Message is queued for offline users; error if delivery fails after retry.

- **Type:** Error Path

## Test Cases

The screenshot shows the Azure DevOps interface for a project named "Sms Text Message Service". The left sidebar is visible with options like Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Runs (which is selected), and Artifacts. The main area displays a test run titled "Run 23 - 47 : I want to participate in group messaging so that I can communicate with multiple people simultaneously (Manual) / Group Messaging". The "Summary" section includes details such as Run by: Viswagandan S K, Tested build: not available, Test Plan: Sms Text Message Service Team\_Stories\_Sprint\_5, Priority: 2, Test suite: 47 : I want to participate in group messaging so that I can communicate with multiple people simultaneously, Test Case: Group Messaging, and Configuration: Windows 10. The "Analysis" section shows the status as Passed, with Owner: Viswagandan S K, Failure type: None, Resolution: None, and Comment: not available. Below the summary, there are sections for "Attachments (0)" and "Linked Items (0)". Under "Linked Items (0)", there is a "Details" section showing a single test step: "Test passed" (Start time: 28/05/2025 03:56:32 | Duration: 0:00:03.310). The test steps listed are: 1. Create a group with multiple contacts. (Expected result: Group is created and visible in the groups list.) and 2. Send a message to the group.

## 5. Installation of test

The screenshot shows the Microsoft Edge Add-ons page. At the top, there are links for Microsoft, Edge Add-ons, Discover, Extensions, and Themes. A search bar is present with the placeholder "Search extensions, themes, and more". Below the search bar, the "Test & Feedback" extension is listed. It has a purple icon featuring a flask and a compass. The extension name is "Test & Feedback" and it is developed by Microsoft Corporation. It has a rating of 4 stars from 28 reviews and over 100,000 users. A "Remove" button is visible, along with a note that it is "Add-on already installed on your browser". To the right, there is information about the extension's version (1.0.256.1), update date (May 6, 2025), and availability in one language. Links for Terms, Privacy policy, and Developer (Microsoft Corporation) are also provided. A "Report abuse" button is at the bottom right. The main content area displays a screenshot of the extension's interface, which includes a toolbar with various icons and a central panel for "Capture & Annotate". Below the screenshot, a "Description" section contains text about the extension's purpose and usage.

Now everyone on the team can own quality. Capture findings, create issues, and collaborate with the team, directly from the browser.

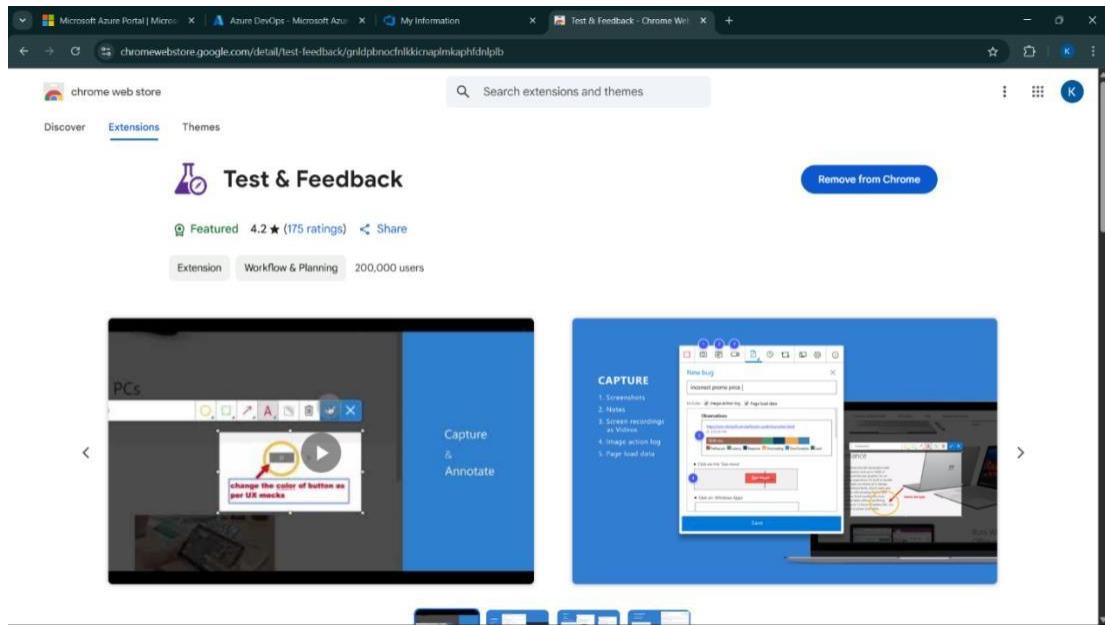
Test & Feedback - Now everyone on the team can own quality. Capture findings, create issues, and collaborate with the team, directly from the browser.

...

Show more

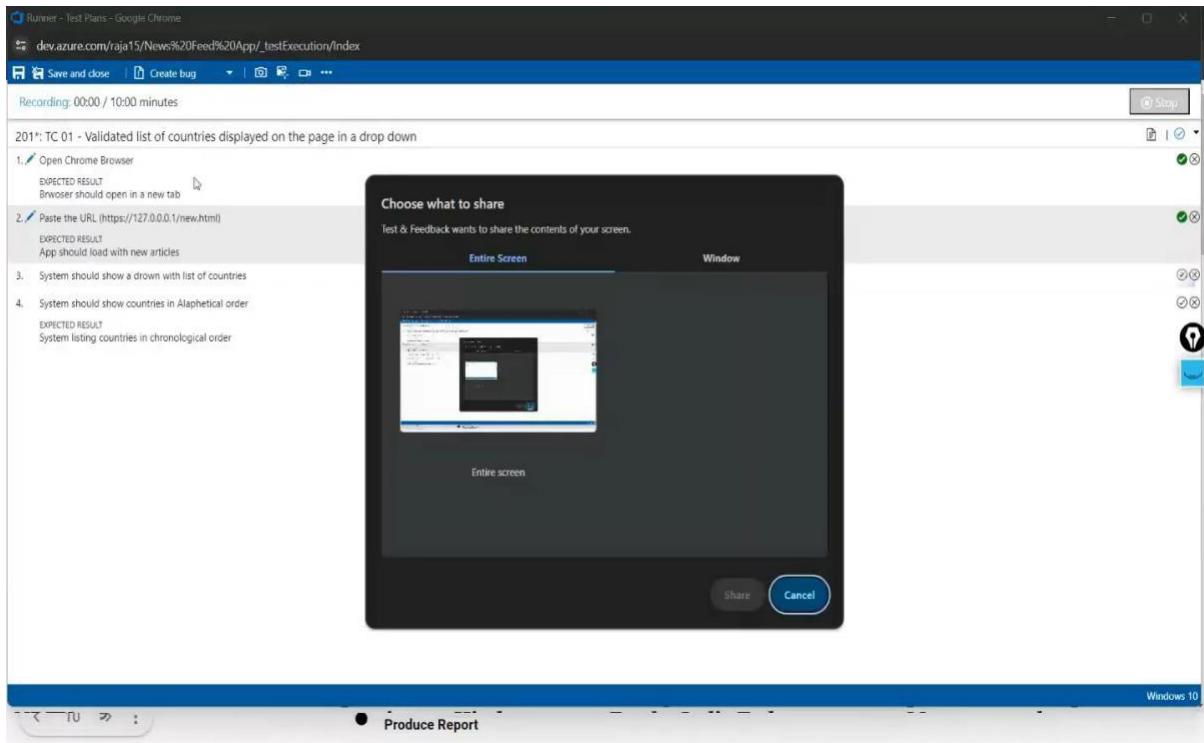
6.

The screenshot shows the Chrome Web Store page for the "Test & Feedback" extension. The extension is listed as "Featured" with a rating of 4.2 stars from 175 ratings. It has over 200,000 users. The "Extensions" tab is selected in the navigation bar. An "Add to Chrome" button is prominently displayed. The extension's icon, which includes a flask and a compass, is shown next to its name. Below the extension details, there are two large screenshots. The first screenshot shows a browser window with a toolbar and a central panel for "Capture & Annotate". The second screenshot shows a "New bug" dialog box with various fields and options like "Screenshot", "Video recording", and "Image action log".

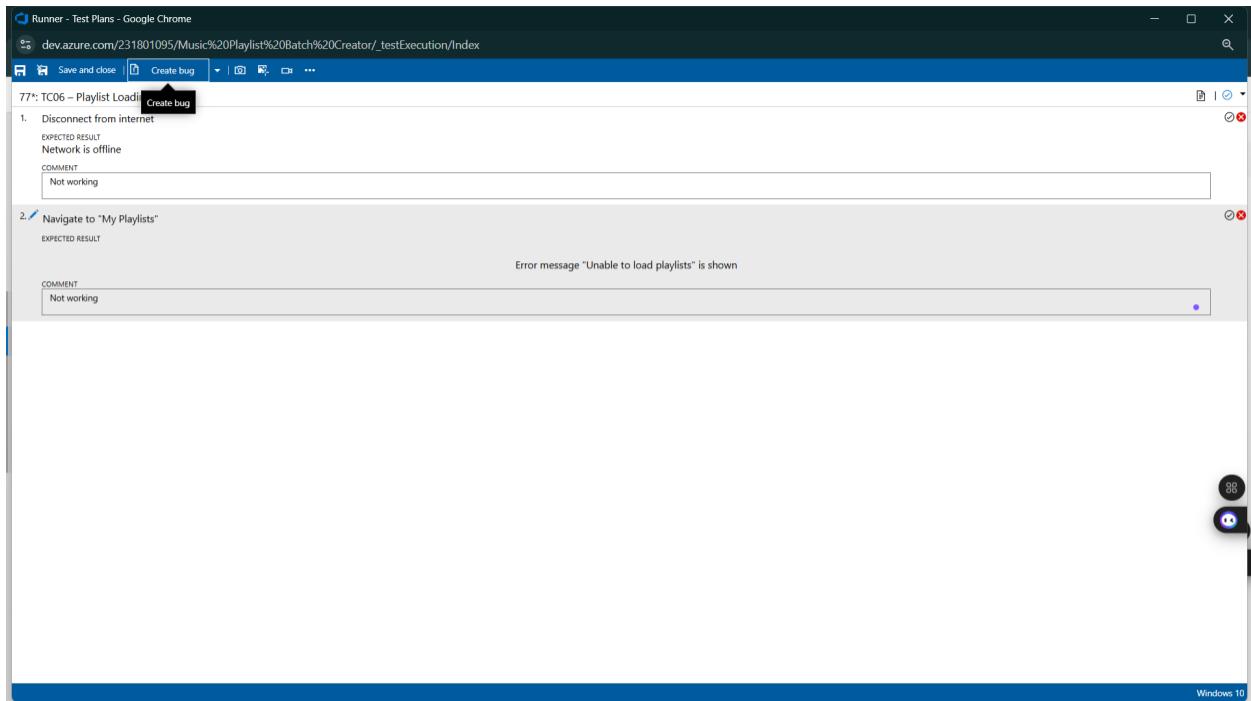


## 6. Running the test cases

## 7. Recording the test case



## 8. Creating the bug



**BUG 89\***

### 89 Error Not Displayed

Unassigned 0 comments Add tag

Save & Close Follow Details

State	New	Area	Sms Text Message Service
Reason	Not fixed	Iteration	Sms Text Message Service

**Repro Steps**

- Check the delivery report for the status ("Delivered").
- Expected Result
- Delivery report indicates "Delivered" for the valid number.

3. **Passed** Send an SMS to an invalid number and verify the status ("Failed").

- Expected Result
- Delivery report indicates "Failed" for the invalid number.

4. **Failed** Check if failure reasons are displayed correctly.

- Expected Result
- The failure reason (e.g., "Invalid number") is displayed.

Comments: Error not displayed

**Planning**

Resolved Reason  
Story Points  
Priority  
Severity  
Activity

**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  
Parent  
12 Delivery Report Updated 53 minutes ago, Closed

**BUG 89\***

### 89 Error Not Displayed

Unassigned 0 comments Add tag

State	Closed	Area	Sms Text Message Service
Reason	Fixed and verified	Iteration	Sms Text Message Service

Browser - Name	Microsoft Edge 136
Browser - Language	en-US
Browser - Height	864
Browser - Width	1536
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 Edg/136.0.0.0
Operating system - Name	Windows NT 10.0; Win64; x64
Operating system - Architecture	x86_64
Operating system - Processor model	12th Gen Intel(R) Core(TM) i7-12700H
Operating system - Number of processors	20
Memory - Available	8708091904
Memory - Capacity	16788910080
Display - Pixels per inch (X axis)	120
Display - Pixels per inch (Y axis)	120
Display - Device pixel ratio	1.25

## 9. Test case results

The screenshot shows the Azure DevOps interface for a project named "Sms Text Message Service". The left sidebar includes links for Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Runs, and Artifacts. The main area displays a "Test Suites" section with a list of test cases under "Sms Text Message Service Team\_Stories\_Sms ...". One test case, "44 : As an user I need to add and update Contacts (ID: 80)", is selected. The right side shows the "Test Case Results" section with a table of outcomes:

Outcome	TimeSta...	Configuration	Run by	Tester	Test
Passed	7h ago	Windows 10	Viswagandan S K	Viswagandan S K	Sms
Passed	7h ago	Windows 10	Viswagandan S K	Viswagandan S K	Sms
Passed	7h ago	Windows 10	Viswagandan S K	Viswagandan S K	Sms

A link at the bottom of the table says "Open execution history for current test point".

## 10. Test report summary

The screenshot shows a work item titled "BUG 89" with the ID "89 Error Not Displayed". The work item details are as follows:

- State:** New
- Reason:** Not fixed
- Area:** Sms Text Message Service
- Iteration:** Sms Text Message Service

**Repro Steps:**

- Check the delivery report for the status ("Delivered").  
Expected Result  
Delivery report indicates "Delivered" for the valid number.
- Send an SMS to an invalid number and verify the status ("Failed").  
Expected Result  
Delivery report indicates "Failed" for the invalid number.
- Check if failure reasons are displayed correctly.  
Expected Result  
The failure reason (e.g., "Invalid number") is displayed.

**Comments:** Error not displayed

**Planning:**

- Resolved Reason
- Story Points

**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.

**Effort (Hours):**

- Original Estimate
- Remaining

**Related Work:**

- Add link
- Parent
- 12 Delivery Report (Updated 53 minutes ago, Closed)

11.

## 12. Progress report

Azure DevOps 231001243 / Sms Text Message Service / Test Plans / Progress report

Progress report

Sms Text Message Service Team\_Stories\_Sms Text M... Test Suites Outcome Configuration Tester Priority Assigned To Last 14 Days

Summary

1 Test plans 7 Test points  
7 (7 / 7) Test points run 100% Run  
✓ 100% (7 / 7) Pass rate 7 Passed

Outcome trend

Last 14 Days

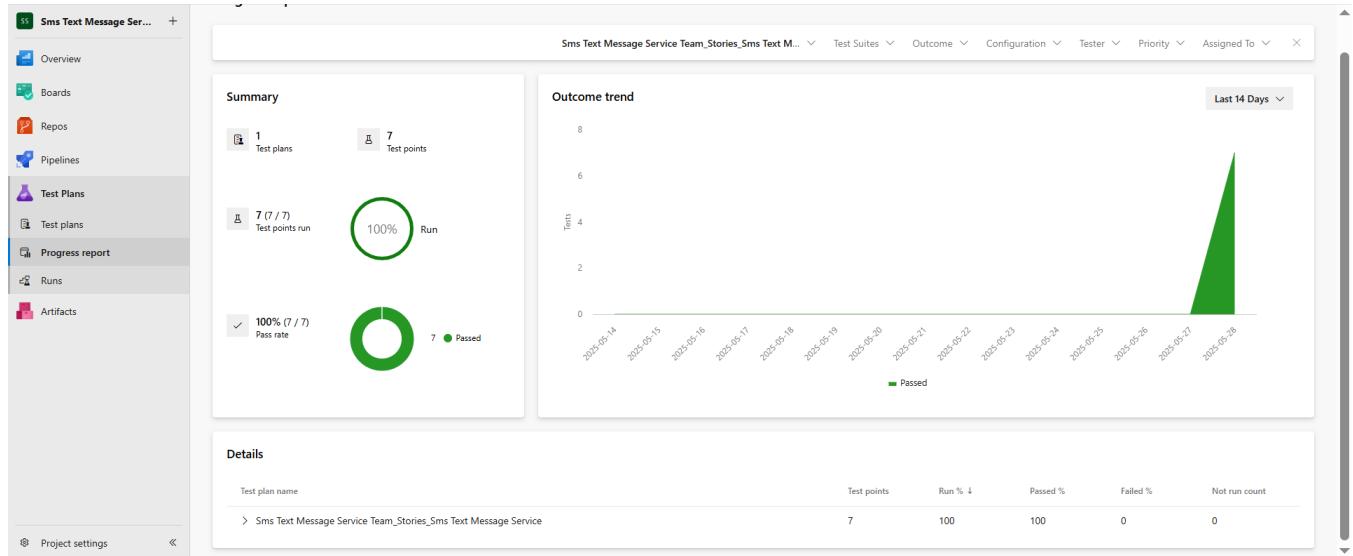
Test Suite Total 0 2 4 6 8  
2025-05-14 2025-05-15 2025-05-16 2025-05-17 2025-05-18 2025-05-19 2025-05-20 2025-05-21 2025-05-22 2025-05-23 2025-05-24 2025-05-25 2025-05-26 2025-05-27 2025-05-28  
Passed

Details

Test plan name	Test points	Run %	Passed %	Failed %	Not run count
> Sms Text Message Service Team_Stories_Sms Text Message Service	7	100	100	0	0

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### 13. Changing the test template

**General**

- Overview
- Projects
- Users
- Billing
- Global notifications
- Usage
- Extensions
- Microsoft Entra

**Security**

- Security overview
- Policies
- Permissions

**Boards**

- Process

**Pipelines**

- Agent pools
- Settings
- Deployment pools

**Process**

- Basic
- Agile
- Scrum
- CMMI

The screenshot shows the Azure DevOps Settings interface. On the left, a sidebar menu includes General, Security, Boards, Pipelines, and Process (which is selected). The main area displays a list of process templates under the Basic category, including Agile, Scrum, and CMMI. Each template has a description and a 'Team projects' count.

Name	Description	Team projects
Basic	This template is flexible for any process and great for teams getting started with Azure DevOps.	0
Agile	This template is flexible and will work great for most teams using Agile planning methods, including those pract...	0
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 improvement and an auditable reco...	0

The screenshot shows the Azure DevOps Settings interface. On the left, a sidebar menu includes General, Security, Boards, Pipelines, and Process (which is selected). The main area displays a list of process templates under the Agile category, including 231801095 Agile (default), Agile Plus (selected), Scrum, and CMMI. Each template has a description and a 'Team projects' count. A three-dot ellipsis button is visible next to the Agile Plus row.

Name	Description	Team projects
Basic	This template is flexible for any process and great for teams getting started with Azure DevOps.	0
Agile	This template is flexible and will work great for most teams using Agile planning methods; including those pract...	0
231801095 Agile (default)		1
Agile Plus		0
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 improvement and an auditable reco...	0

#### 14. View the new test case template

The screenshot shows two overlapping windows. The top window is titled 'Create a field' and is part of the 'Steps' configuration in a test case template. It allows creating a new field named 'Acceptance Criteria' of type 'Text (single line)'. The bottom window shows the 'Work item types' list, where 'Music Playlist Batch Creator' is selected. This item has a detailed description: 'Azure Music Playlist Batch Creator The Azure Music Playlist Batch Creator is a cloud-based solution designed for bulk playlist creation and management. Leverage...'. Both windows have a sidebar with navigation links like General, Security, Boards, Pipelines, and Process.

This screenshot shows the 'Work item types' list. The 'Music Playlist Batch Creator' item is listed under the 'General' category. Its name is 'Music Playlist Batch Creator' and its description is 'Azure Music Playlist Batch Creator The Azure Music Playlist Batch Creator is a cloud-based solution designed for bulk playlist creation and management. Leverage...'. The sidebar on the left includes links for General, Security, Boards, Pipelines, and Process.

The screenshot shows the Azure DevOps Settings interface. On the left, there's a sidebar with navigation links like General, Security, Boards, Process, Pipelines, Agent pools, Settings, and Deployment pools. The 'Process' link is currently selected. In the main area, there's a 'New field' dialog. The 'Name' field contains 'Steps'. Under the 'Type' dropdown, 'Text (multiple lines)' is selected. To the right, there's a 'Custom' section with several fields: 'Recent test results' (Recent test case results), 'Deployment' (Deployments), 'Development' (Links), 'Related Work' (Links), and 'Status' (Priority: Integer, Automation status). A button 'Add a field ...' is visible at the top right of the dialog.

### 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	<b>LOAD TESTING AND PERFORMANCE TESTING</b>
-----------	---

**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:

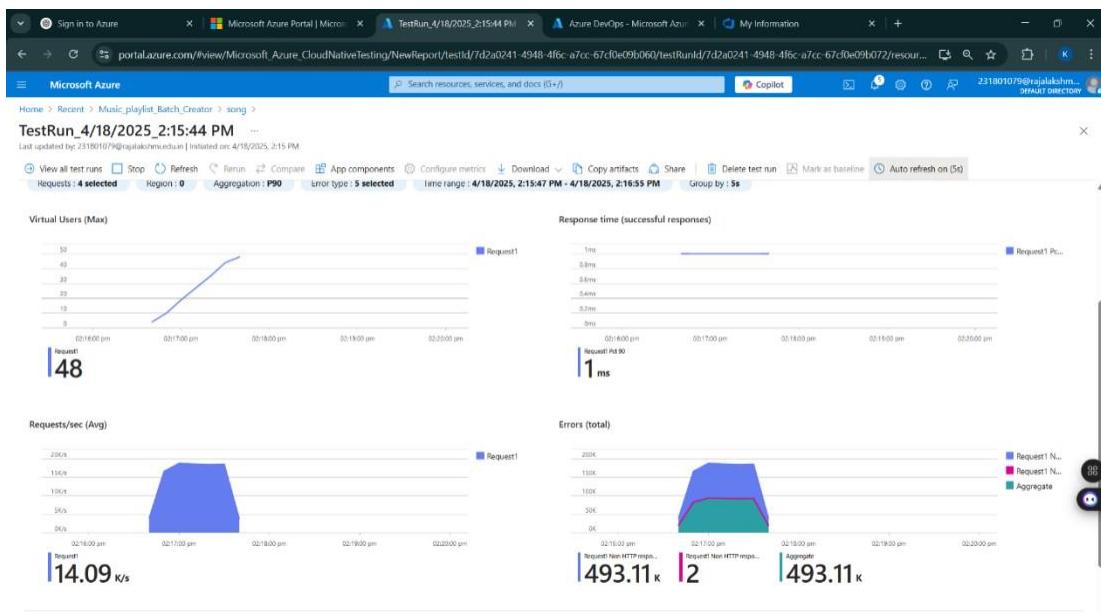
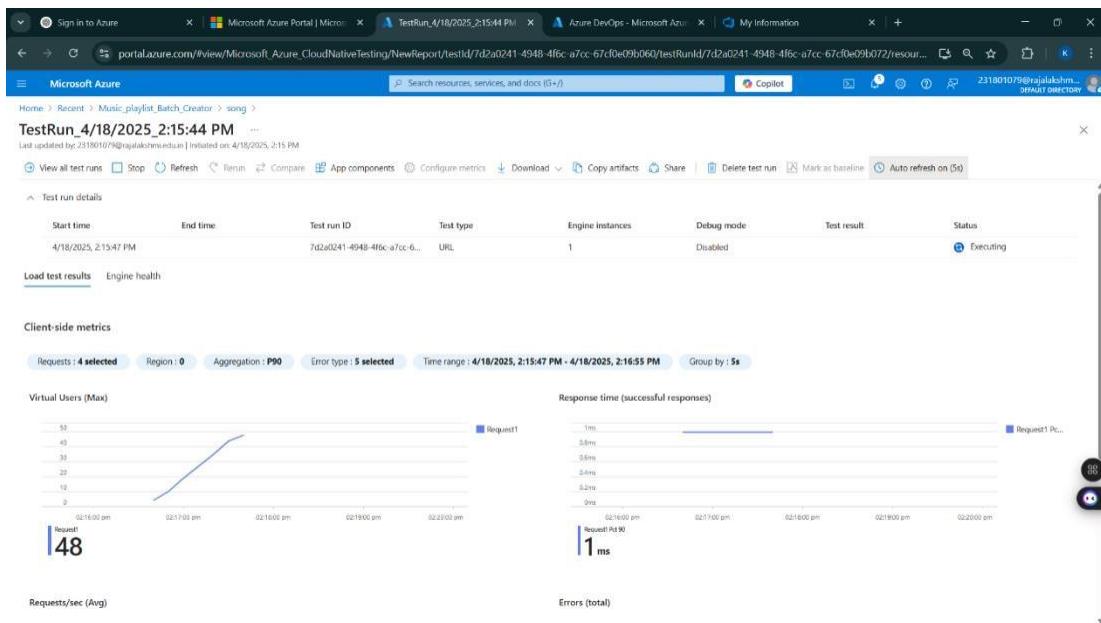
1. Sign in to Azure Portal  
Go to <https://portal.azure.com> and log in.
2. Create the Resource
  - o Go to *Create a resource* → Search for “Azure Load Testing”.
  - o Select Azure Load Testing and click Create.
3. Fill in the Configuration Details
  - o *Subscription*: Choose your Azure subscription.
  - 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.

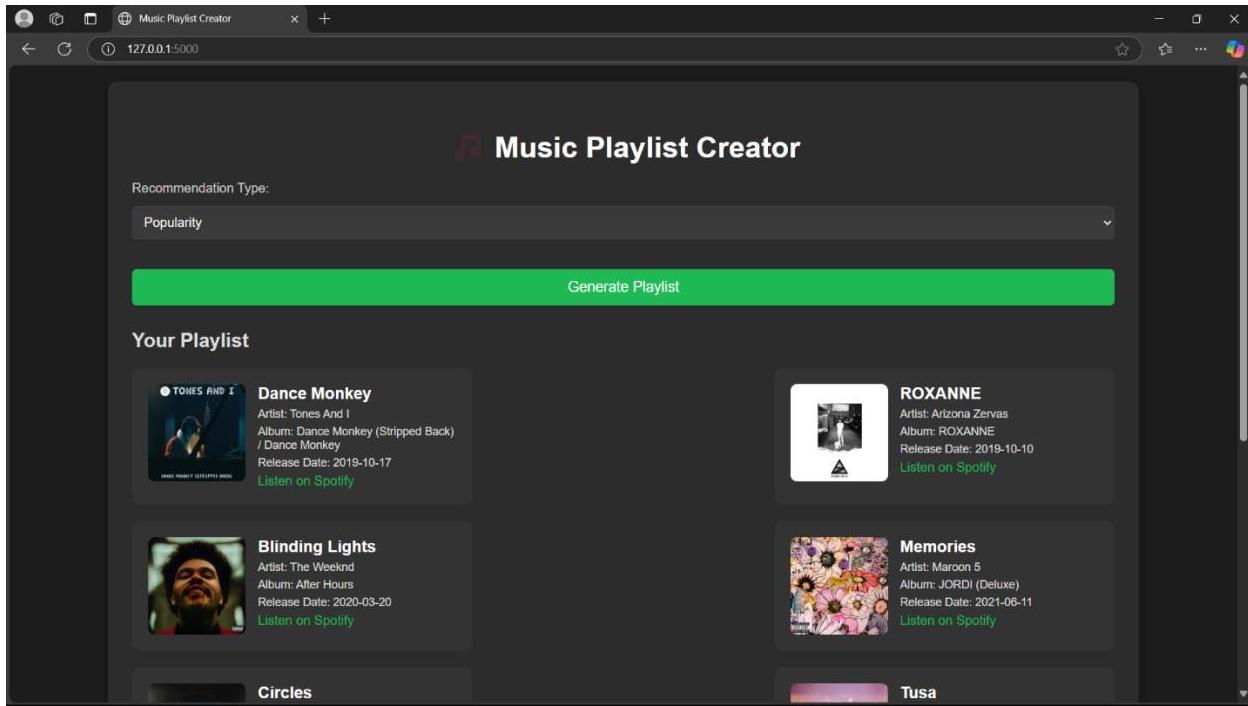
**Steps to Create and Run a Load Test:**

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.

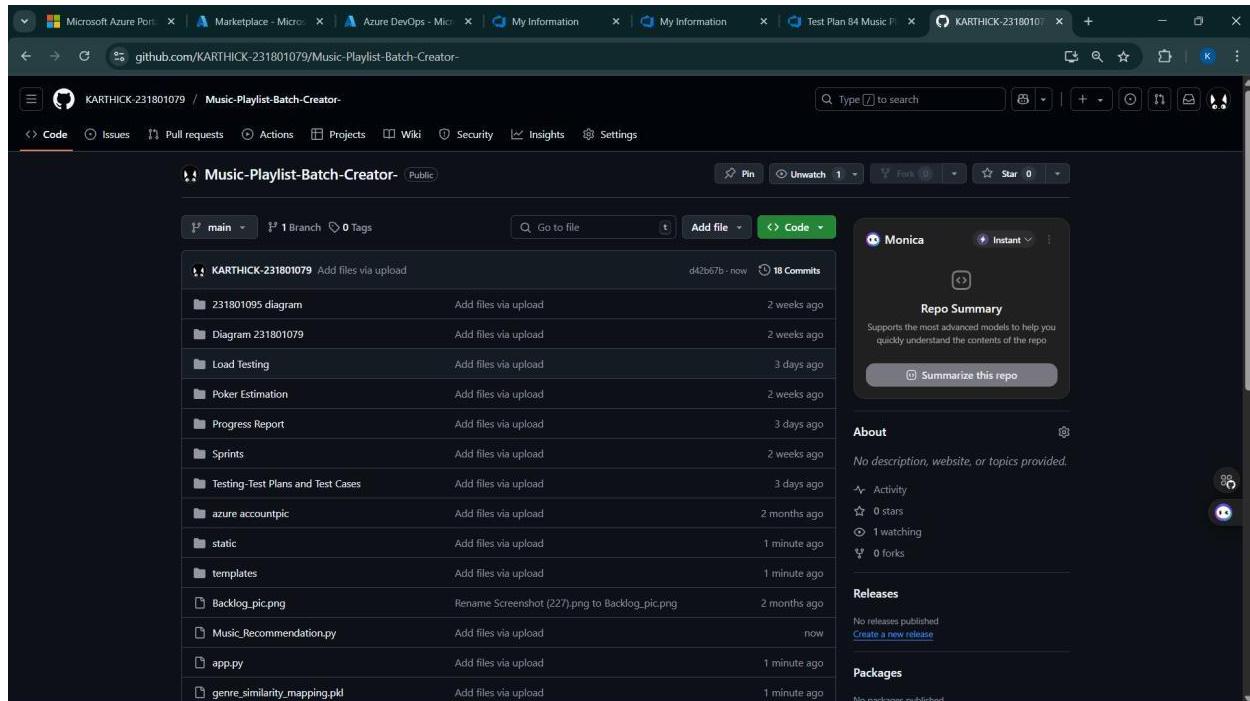
**EXP NO: 10**

## **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 Music Playlist Batch Creator 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.

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