

**EXP NO: 1**

## **AZURE DEVOPS ENVIRONMENT SETUP**

### **Aim:**

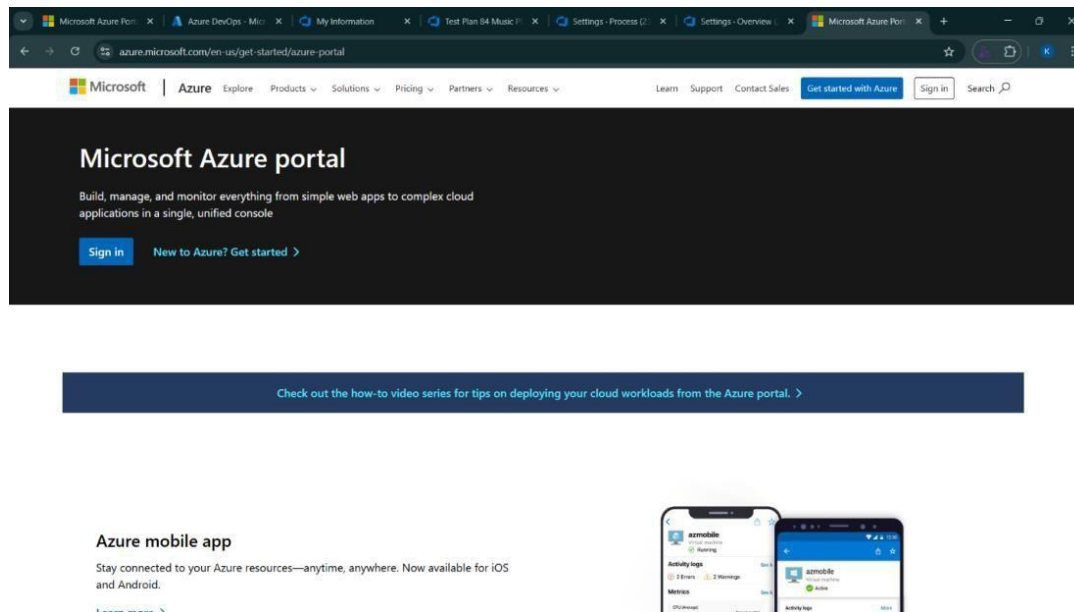
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

### **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

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

231501075@rajalakshm...  
DEFAULT DIRECTORY (231501075...

### Azure services

Create a resource

Azure DevOps organizations

Azure AI Foundry

All resources

SQL databases

Cost Management ...

Microsoft Defender for...

Help + support

Quickstart Center

More services

### Resources

Recent Favorite

Name	Type	Last Viewed
<a href="#">Azure for Students</a>	Subscription	2 months ago

[See all](#)

### Navigate

Subscriptions

Resource groups

All resources

Dashboard

### Tools

Microsoft Learn [Learn Azure with free online](#)

Azure Monitor [Monitor your apps and infrastructure](#)

Microsoft Defender for Cloud [Secure your apps and infrastructure](#)

Cost Management [Analyze and optimize your cloud spend for free](#)

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

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

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DEFAULT DIRECTORY (231501075...

### Azure services

Create a resource

Azure DevOps organizations

Azure AI Foundry

All resources

SQL databases

Cost Management ...

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More services

### Resources

Recent Favorite

Name	Type	Last Viewed
<a href="#">Azure for Students</a>	Subscription	2 months ago

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### Navigate

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Dashboard

### Tools

Microsoft Learn [Learn Azure with free online](#)

Azure Monitor [Monitor your apps and infrastructure](#)

Microsoft Defender for Cloud [Secure your apps and infrastructure](#)

Cost Management [Analyze and optimize your cloud spend for free](#)

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.

Microsoft Azure

Search resources, services, and docs (G+I)

Copilot

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DEFAULT DIRECTORY (231501075...

Azure services

+

Create a resource

Azure DevOps organizations

Azure AI Foundry

All resources

SQL databases

Cost Management ...

Microsoft Defender for...

Help + support

Quickstart Center

→

More services

Resources

Recent

Favorite

Name	Type	Last Viewed
<div></div> <div>Azure for Students</div>	Subscription	2 months ago

See all

Navigate

Subscriptions

Resource groups

All resources

Dashboard

Tools

Microsoft Learn

Learn Azure with free online guides from Microsoft

Azure Monitor

Monitor your apps and infrastructure

Microsoft Defender for Cloud

Secure your apps and infrastructure

Cost Management

Analyze and optimize your cloud spend for free

**Result:**

2116231501075

CS23432

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

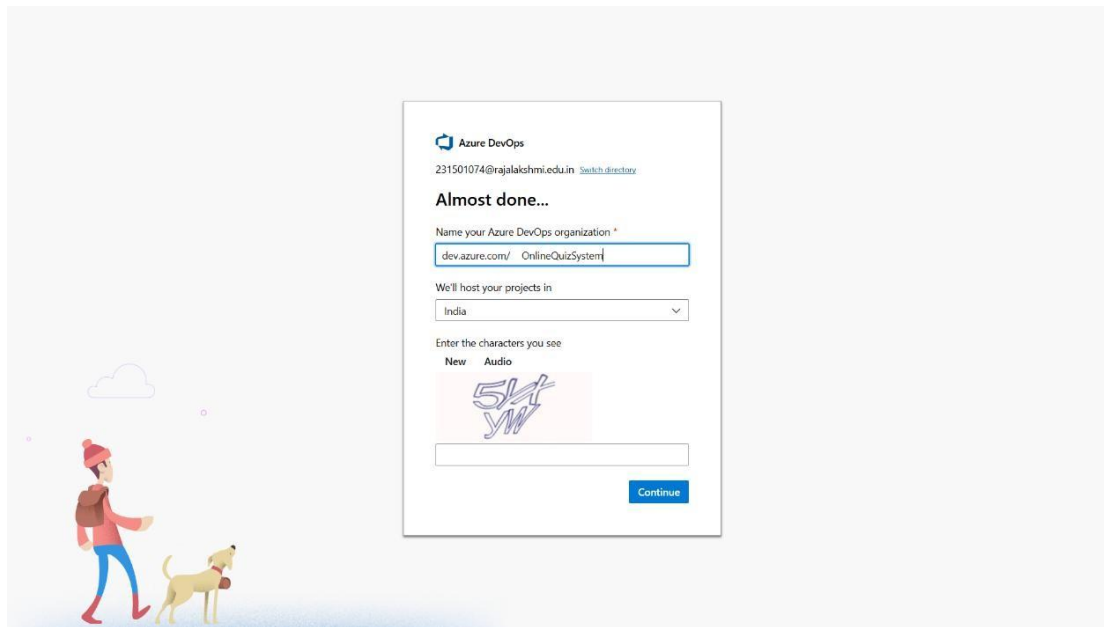
EXP NO: 2

## 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

- 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 new project

×


Project name \*

Online quiz system ⓘ

Description

A web app to take quizzes across multiple topics with student and instructor modules.


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 ⓘ


Agile ▼

Cancel Create

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.

Microsoft

Kaviyam MS   Sign out



Kaviyam MS

231501075@rajalakshmi.edu.in

Microsoft account

India

231501075@rajalakshmi.edu.in

Edit profile

Visual Studio Dev Essentials

Get everything you need to build and deploy your app on any platform.

Use your benefits

Azure DevOps Organizations

Create new organization

dev.azure.com/231501075 (Owner)

Projects

Lab1

New project

Actions

Open in Visual Studio

dev.azure.com/BlogMS (Member)

Projects

Blog Management System

SC - BLOG MANAGEMENT SYSTEM

Actions

Open in Visual Studio

Manage security

Browse extensions

Leave

#### 4. Project dashboard

2116231501075

CS23432

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 DevOps interface for the 'Online Quiz System' project. The left-hand navigation menu is expanded, showing 'Boards' as the selected view. The main area displays the 'Work Items' page, which includes a 'Recently updated' section and a table of work items. The table has columns for ID, Title, Assigned To, State, Area Path, and Tags. The first item is 'User Registration and Authentication' with ID 1, assigned to 'Unassigned', and in 'New' state. The other items are also in 'New' state and assigned to 'Unassigned'.

ID	Title	Assigned To	State	Area Path	Tags
1	User Registration and Authentication	Unassigned	New	Online Quiz System	
2	Instructor Registration and Access Control	Unassigned	New	Online Quiz System	
3	Quiz Creation and Management	Unassigned	New	Online Quiz System	
4	Question Bank with Image Upload	Unassigned	New	Online Quiz System	
5	Quiz Attempt and Submission	Unassigned	New	Online Quiz System	
6	Score Calculation and Result Display	Unassigned	New	Online Quiz System	
7	Student Performance Reports	Unassigned	New	Online Quiz System	
8	Instructor Analytics and Reporting	Unassigned	New	Online Quiz System	
9	Responsive Frontend UI	Unassigned	New	Online Quiz System	
10	Load Testing and Deployment	Unassigned	New	Online Quiz System	



Search



ures in Azure DevOps. [Learn more](#)

 Microsoft

Sign out



**Kaviyam MS**

231501075@rajalakshmi.edu.in

[My Microsoft account](#)

[Switch directory](#)



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 displays the Azure DevOps interface for the 'Online Quiz System' project. The left sidebar shows the navigation menu with 'Backlogs' selected. The main area shows the 'Online Quiz System Team' backlog. A notification banner at the top states: 'Did you notice Azure Boards has a new look and awesome new features? [Learn more.](#)'

The backlog is organized into a hierarchy of work items. The top-level item is an Epic titled 'User Registration and Authentication'. Below it are two Features: 'Email-based Signup and Login' and 'Forgot Password Recovery'. Under 'Email-based Signup and Login', there are two User Stories: 'As a user, I want to sign up using my email and password' and 'As a user, I want to log in securely so that my account ...'. Below 'Forgot Password Recovery', there is another User Story: 'As a user, I want to reset my password'. The bottom section of the backlog lists 10 Epics, each with a title and a state of 'New'.

Order	Work Item Type	Title	State	Effort	Busin...	Value Area	Tags
1	Epic	User Registration and Authentication	New		Business		
	Feature	Email-based Signup and Login	New		Business		
	User Story	As a user, I want to sign up using my email and password	New		Business		
	User Story	As a user, I want to log in securely so that my account ...	New		Business		
	Feature	Forgot Password Recovery	New		Business		
2	Epic	Instructor Registration and Access Control	New		Business		
3	Epic	Quiz Creation and Management	New		Business		
4	Epic	Question Bank with Image Upload	New		Business		
5	Epic	Quiz Attempt and Submission	New		Business		
6	Epic	Score Calculation and Result Display	New		Business		
7	Epic	Student Performance Reports	New		Business		
8	Epic	Instructor Analytics and Reporting	New		Business		
9	Epic	Responsive Frontend UI	New		Business		
10	Epic	Load Testing and Deployment	New		Business		

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

## 2.Fill in Features

The screenshot shows the Azure DevOps interface for the 'SC - BLOG MANAGEMENT S...' project. The left sidebar contains navigation links: Overview, Boards, Work items (selected), Backlogs, Sprints, Queries, Delivery Plans, Repos, Pipelines, and Artifacts. The main area displays a list of work items under the 'Work items' tab. A notification banner at the top states: 'Did you notice Azure Boards has a new look and awesome new features? [Learn more.](#)'

Work items

Recently updated | + New Work Item | Open in Queries | Column Options | Import Work Items | Recycle Bin

Filter by keyword | Types | Assigned to | States | Area | Tags | X

ID	Title	Assigned To	State	Area Path
88	As a user, I want to upload images to use in my blog posts so th...	Unassigned	New	SC - BLOG MANAGEM
90	As a user, I want to receive an error message if my file type is unsupp...	Unassigned	New	SC - BLOG MANAGEM
93	As a user, I want to preview media files in the library so that I can cho...	Unassigned	New	SC - BLOG MANAGEM
96	As a blogger, I want to delete inappropriate comments so that my blo...	Unassigned	New	SC - BLOG MANAGEM
97	As an admin, I want to flag and review reported comments so that I c...	Unassigned	New	SC - BLOG MANAGEM
94	As a reader, I want to post a comment on a blog so that I can share m...	Unassigned	New	SC - BLOG MANAGEM
92	As an admin, I want to view system uptime stats so that I can ensure t...	Unassigned	New	SC - BLOG MANAGEM
91	As a blogger, I want to browse my previously uploaded media so that...	Unassigned	New	SC - BLOG MANAGEM
89	As a developer, I want to log backend errors so that I can fix bugs mo...	Unassigned	New	SC - BLOG MANAGEM
79	As a blogger, I want to format my blog posts with headings, bold, and...	Unassigned	New	SC - BLOG MANAGEM

## 3.Fill in User Story Details

This screenshot is identical to the one above, showing the Azure DevOps Work items page for the 'SC - BLOG MANAGEMENT S...' project. It displays a list of user stories with details such as ID, Title, Assigned To (Unassigned), State (New), and Area Path (SC - BLOG MANAGEM).

**Result:**

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

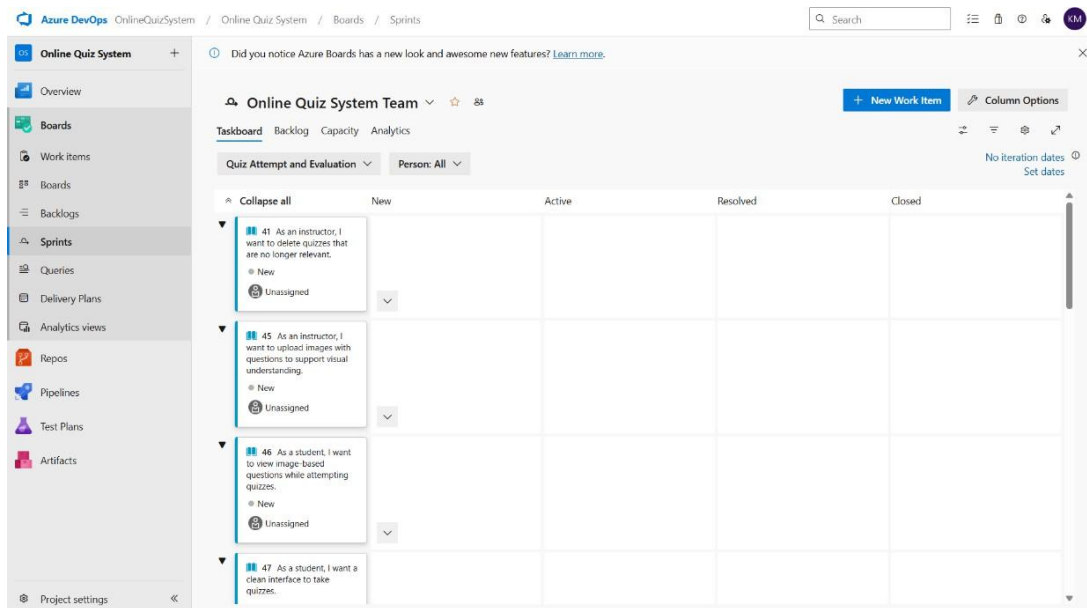
EXP NO: 4

# SPRINT PLANNING

## Aim:

To assign user story to specific sprint for the Project Online Quiz System.

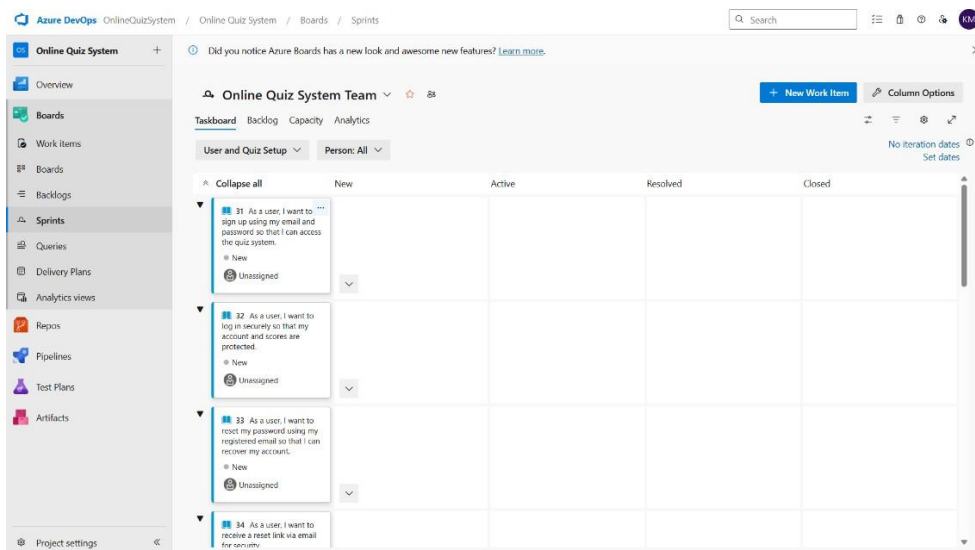
## Sprint Planning Sprint 1



The screenshot shows the Azure DevOps Sprints board for the 'Online Quiz System' project. The board is titled 'Online Quiz System Team' and has a 'Taskboard' view. The 'Quiz Attempt and Evaluation' filter is selected, and the 'Person: All' filter is applied. The board is organized into columns: 'New', 'Active', 'Resolved', and 'Closed'. There are four user stories in the 'New' column, all marked as 'New' and 'Unassigned'. The user stories are:

- 41 As an instructor, I want to delete quizzes that are no longer relevant.
- 45 As an instructor, I want to upload images with questions to support visual understanding.
- 46 As a student, I want to view image-based questions while attempting quizzes.
- 47 As a student, I want a clean interface to take quizzes.

## Sprint 2



The screenshot shows the Azure DevOps Sprints board for the 'Online Quiz System' project. The board is titled 'Online Quiz System Team' and has a 'Taskboard' view. The 'User and Quiz Setup' filter is selected, and the 'Person: All' filter is applied. The board is organized into columns: 'New', 'Active', 'Resolved', and 'Closed'. There are four user stories in the 'New' column, all marked as 'New' and 'Unassigned'. The user stories are:

- 31 As a user, I want to sign up using my email and password so that I can access the quiz system.
- 32 As a user, I want to log in securely so that my account and scores are protected.
- 33 As a user, I want to reset my password using my registered email so that I can recover my account.
- 34 As a user, I want to receive a reset link via email for security.

## Sprint 3

Azure DevOps OnlineQuizSystem / Online Quiz System / Boards / Sprints

Search

Online Quiz System

Overview

Boards

Work Items

Boards

Backlogs

Sprints

Queries

Delivery Plans

Analytics views

Repos

Pipelines

Test Plans

Artifacts

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

Online Quiz System Team

+ New Work Item

Column Options

Taskboard Backlog Capacity Analytics

Reports, Analytics and Deployment Person: All

No iteration dates Set dates

Collapse all	New	Active	Resolved	Closed
58 As a student, I want to filter reports by quiz name or date. New Unassigned				
59 As an instructor, I want to see how many students attempted each quiz. New Unassigned				
60 As an instructor, I want to view detailed responses for each question. New Unassigned				
61 As an instructor, I want to export quiz reports as Excel. New				

Browser address bar: https://dev.azure.com/OnlineQuizSystem/OnlineQuizSystem/\_workitems/edit/58

**Result:**

The Sprints are created for the Project Online Quiz System.



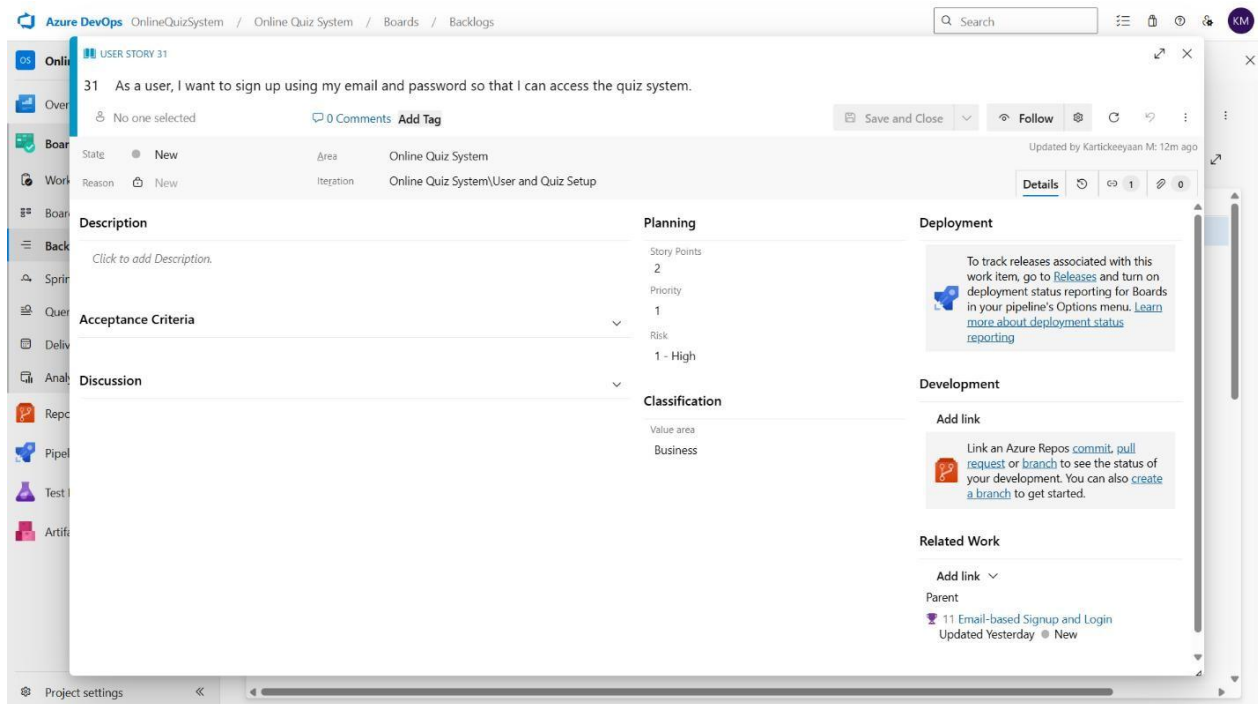
**EXP NO: 5**

# POKER ESTIMATION

## Aim:

Create Poker Estimation for the user stories – Online Quiz System Project.

## Poker Estimation



## Result:

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

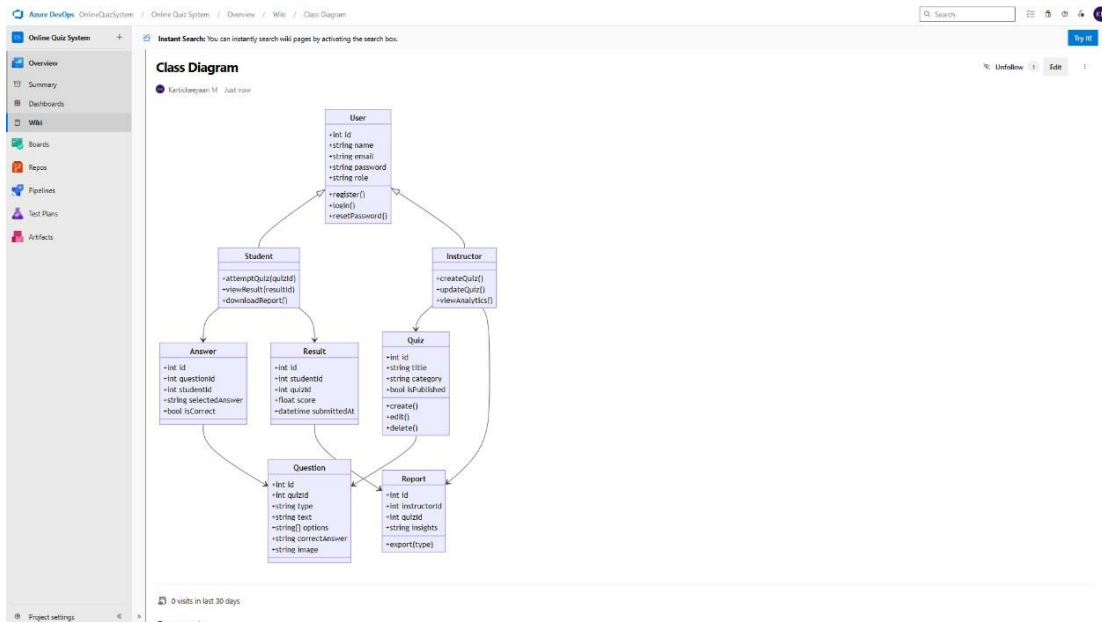
EXP NO: 6

## DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE

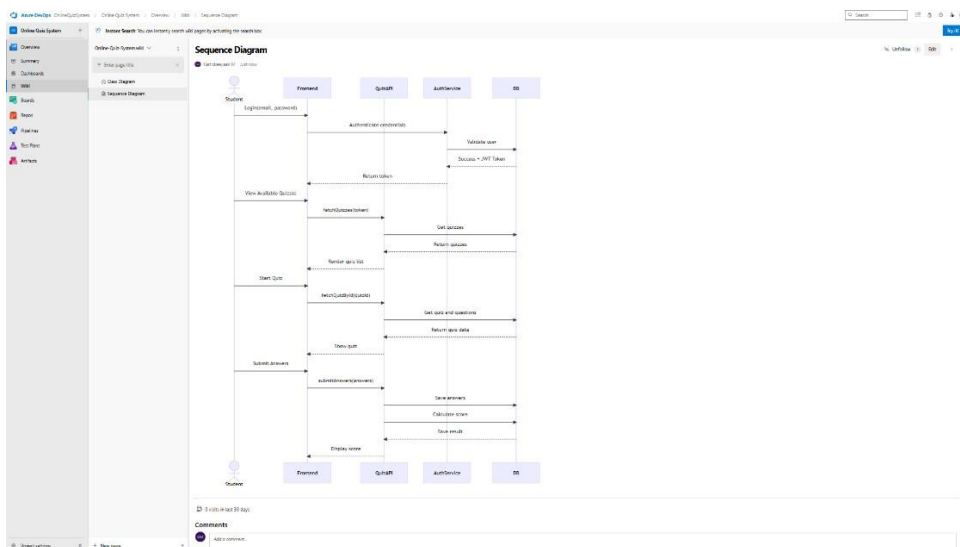
### Aim:

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 Project Online Quiz System.

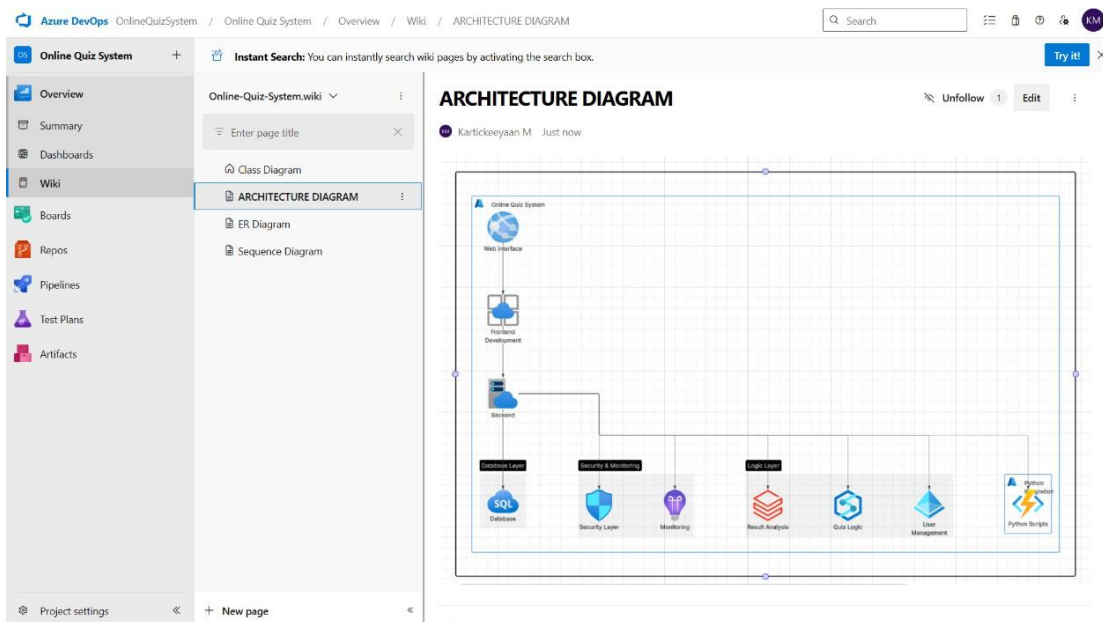
EXP NO: 7

## DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE

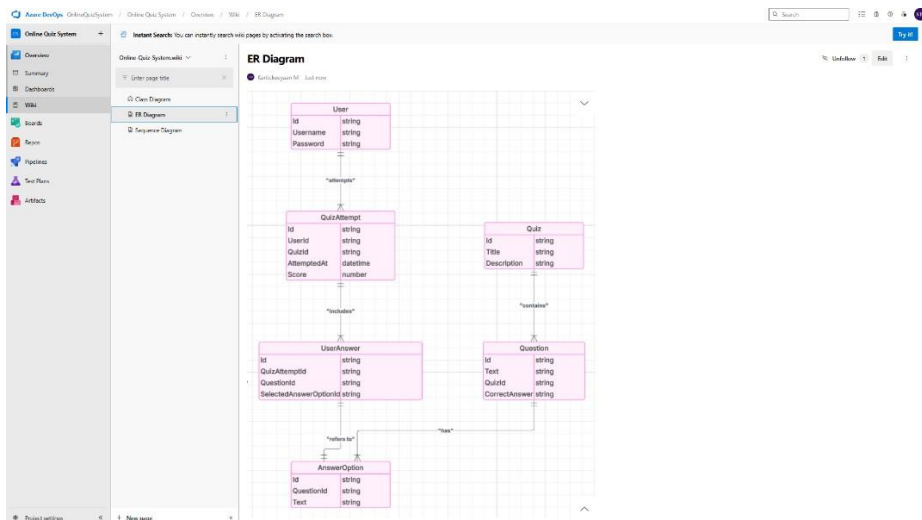
### Aim:

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

**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**

- 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

## 2. Test suite

Title	Outcome	Order	Test Case Id
Test1	Passed	1	72
Test	Failed	2	78

**User Story 1: Secure Sign-Up and Login (ID: 79)**

**Test Plan: Test 1 – User Login**

- **TC01 – Successful Sign Up**  
**Type: Happy Path**  
**Action:**
    - Navigate to the Sign-Up page
    - Enter valid name, email, and password
    - Click "Sign Up"**Expected Result:**
    - Fields accept values
    - Account is created
    - User is redirected to the dashboard
  - **TC02 – Secure Login**  
**Type: Happy Path**  
**Action:**
    - Go to Login page
    - Enter valid credentials
    - Click "Login"**Expected Result:**
    - Login is successful
    - User lands on the dashboard
  - **TC03 – Sign Up with Existing Email**  
**Type: Error Path**  
**Action:**
    - Use an already registered email
    - Click "Sign Up"**Expected Result:**
    - Error: “Email already registered”
  - **TC04 – Login with Wrong Password**  
**Type: Error Path**  
**Action:**
    - Enter valid email and wrong password
    - Click "Login"**Expected Result:**
    - Error: “Invalid username or password”
- 

**User Story 2: View Quiz List (ID: 76)**

**Test Plan: Test 2 – View Quizzes**

- **TC05 – View Quiz Page**  
**Type: Happy Path**  
**Action:**
    - Login
    - Navigate to "Available Quizzes"**Expected Result:**
    - All available quizzes are displayed clearly
  - **TC06 – Quiz Loading Failure**  
**Type: Error Path**  
**Action:**
    - Disconnect from the internet
    - Try accessing "Available Quizzes"**Expected Result:**
    - Error: “Unable to load quizzes”
-



### **User Story 3: Real-Time Score Display (ID: 65)**

#### **Test Plan: Test 2 – Real-Time Results**

- **TC07 – Score Display After Submission**

**Type: Happy Path**

**Action:**

- Complete a quiz
- Submit answers
- Observe the result panel

**Expected Result:**

- Score is calculated and displayed instantly

- **TC08 – Score Not Displaying**

**Type: Error Path**

**Action:**

- Submit quiz with a backend issue

**Expected Result:**

- Error: “Unable to fetch results, please try again”
- 

### **User Story 4: Edit Quiz Details (ID: 68)**

#### **Test Plan: Test 3 – Quiz Editing**

- **TC09 – Rename Quiz Successfully**

**Type: Happy Path**

**Action:**

- Admin navigates to quiz list
- Clicks "Edit" on a quiz
- Changes quiz name and saves

**Expected Result:**

- Quiz name updates successfully

- **TC10 – Rename with Blank Name**

**Type: Error Path**

**Action:**

- Click "Edit"
- Leave the quiz name blank
- Click "Save"

**Expected Result:**

- Error: “Quiz name cannot be empty”

- **TC11 – Change Quiz Question Order**

**Type: Happy Path**

**Action:**

- Open quiz editor
- Drag and drop questions to reorder
- Click "Save"

**Expected Result:**

- Question order is saved

- **TC12 – Reordering Fails Due to Error**

**Type: Error Path**

**Action:**

- Try reordering during server error
- Click "Save"

**Expected Result:**

- Error: “Failed to update. Try again later”
- 

### **User Story 5: Generate Quiz Based on Categories (ID: 73)**

#### **Test Plan: Test 3 – Smart Quiz Generation**

- **TC13 – Generate Quiz Based on Subject**  
**Type: Happy Path**  
**Action:**
  - **Select subject and difficulty**
  - **Click "Generate Quiz"****Expected Result:**
  - **New quiz is created based on selected filters**
- **TC14 – Fail to Generate Quiz (Missing/Invalid Input)**  
**Type: Error Path**  
**Action:**
  - **Click "Generate" without selecting subject****Expected Result:**
  - **Error: “Please select a valid subject/category”**

## Test Cases

TASK 83

83 test 1

No one selected

0 Comments Add Tag

Save and Close

Follow

Updated by Kartikeyaan M: 11m ago

State

New

Area

Online Quiz System

Reason

New

Iteration

Online Quiz System\User and Quiz Setup

Details

1

0

Description

Click to add Description.

Discussion

100

Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request.

Markdown supported. Paste or select files to insert.

switch to HTML editor

Planning

Priority

2

Activity

Effort (Hours)

Original Estimate

Remaining

Completed

Implementation

Integrated in Build

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

TEST CASE 94

94 test 9

Kartickeyaan M 0 Comments Add Tag

State Design Area Online Quiz System

Reason New Iteration Online Quiz System(User and Quiz Setup)

Updated by Kartickeyaan M: 18m ago

Steps Summary Associated Automation 1 0

**Steps**

Steps Action Expected result Attach

Click or type here to add a step

Parameter values

**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

### 3. Installation of test

chrome web store

Search extensions and themes

Discover Extensions Themes

**Test & Feedback**

Featured 4.2 ★ (175 ratings) Share

Extension Workflow & Planning 200,000 users

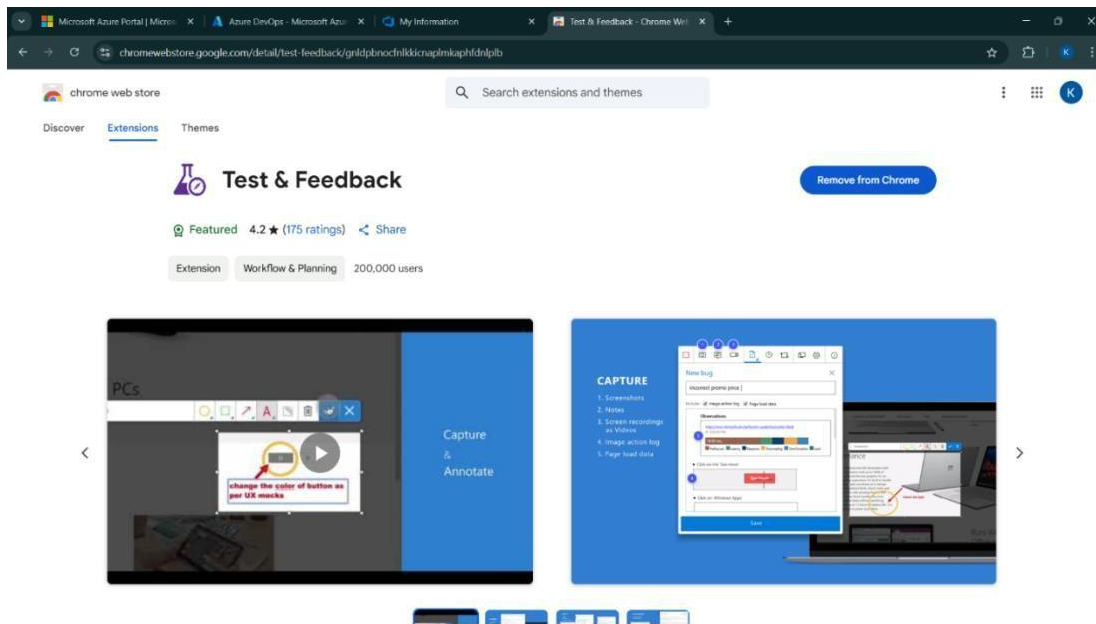
Add to Chrome

Capture & Annotate

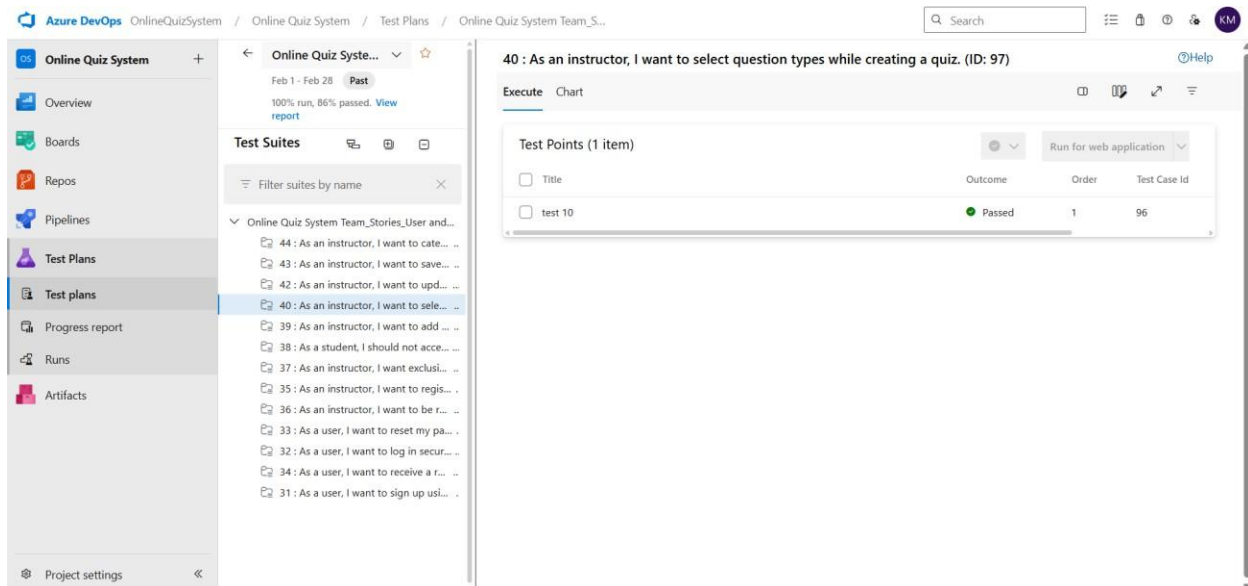
CAPTURE

1. Screenshots
2. Notes
3. Screen recordings
4. Video
5. Page load data

Change the color of bottom as per UX needs



Test and feedback  
Showing it as an extension



## 4. Running the test cases

Azure DevOps OnlineQuizSystem / Online Quiz System / Test Plans / Online Quiz System Team\_S...

Search

Online Quiz System

Overview

Boards

Repos

Pipelines

Test Plans

Test plans

Progress report

Runs

Artifacts

Project settings

Online Quiz Syste...  
Feb 1 - Feb 28 Past  
100% run, 86% passed. View report

Test Suites

Filter suites by name

Online Quiz System Team\_Stories\_User and...

44: As an instructor, I want to cate...  
43: As an instructor, I want to save...  
42: As an instructor, I want to upd...  
40: As an instructor, I want to sele...  
39: As an instructor, I want to add ...  
38: As a student, I should not acce...  
37: As an instructor, I want exclusi...  
35: As an instructor, I want to regis...  
36: As an instructor, I want to be r...  
33: As a user, I want to reset my pa...  
32: As a user, I want to log in secur...  
34: As a user, I want to receive a r...  
31: As a user, I want to sign up usl...

36: As an instructor, I want to be redirected to my dashboard after login. (ID: 87)

Execute Chart

Test Points (1 item)

Title	Outcome	Order	Test Case Id
test 6	Passed	1	86

Runner - Test Plans - Google Chrome

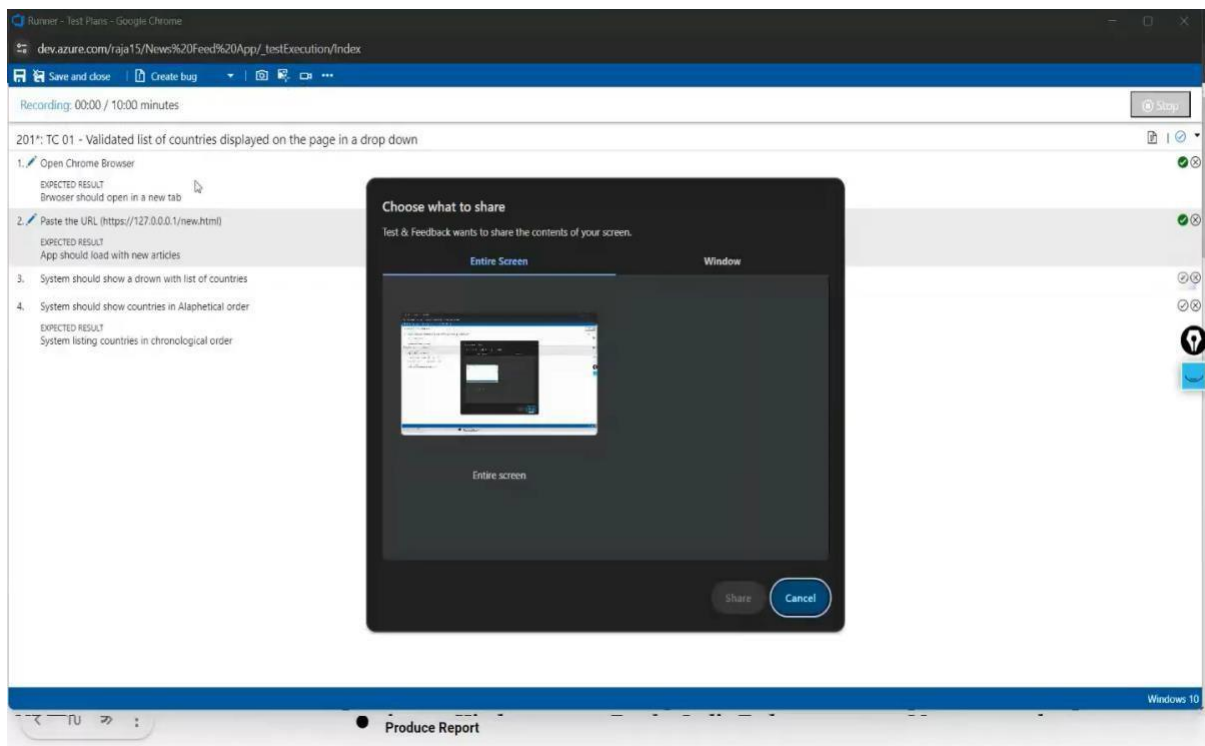
dev.azure.com/231801095/Music%20Playlist%20Batch%20Creator/\_testExecution/Index

Save and do... Create bug

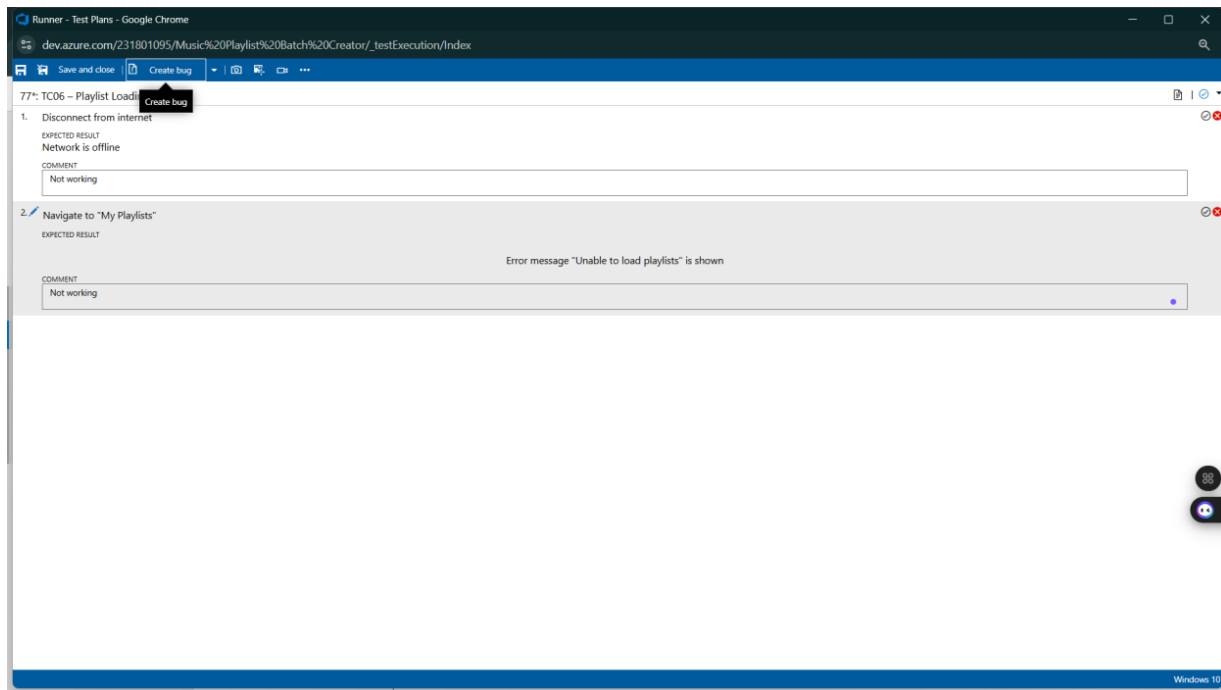
75% TC05 - View Playlist Page

1. Log in successfully  
EXPECTED RESULT  
User is redirected to dashboard
2. Navigate to "My Playlists" section  
EXPECTED RESULT  
All created playlists are displayed clearly

## 5. Recording the test case



## 6. Creating the bug



## 7. Test case results

The screenshot shows the Azure DevOps interface for a test plan. The left sidebar contains navigation options like Overview, Boards, Repos, Pipelines, Test Plans, Progress report, Parameters, Configurations, Runs, and Artifacts. The main area displays 'TS02 - View Playlists (ID: 87)' with a list of test suites. The 'Test Suites' section shows 'Music Playlist Batch Creator - T...' with sub-suites 'TS01 - User Login (4)', 'TS02 - View Playlists (2)', 'TS03 - Real-Time Met...', 'TS04 - Playlist Editing (4)', and 'TS05 - Smart Playlist...'. The 'Test Points (2 items)' section lists 'TC05 - View Playlist Page' and 'TC06 - Playlist Loading Failure'. The 'Test Case Results' window is open, showing a table of results:

Outcome	TimeStamp	Configuration	Run by	Tester	Test P
Passed	4m ago	Windows 10	Karthick S	Mallu karthick Balaji ...	Music
Passed	12m ago	Windows 10	Karthick S	Mallu karthick Balaji ...	Music
Not Applicable	12m ago	Windows 10	Karthick S	Mallu karthick Balaji ...	Music
Passed	14m ago	Windows 10	Karthick S	Mallu karthick Balaji ...	Music
Passed	Tuesday	Windows 10	Karthikeyan Senthil	Mallu karthick Balaji ...	Music
Passed	Saturday	Windows 10	Mallu karthick Balaji ...	Mallu karthick Balaji ...	Music
Failed	Saturday	Windows 10	Mallu karthick Balaji ...	Mallu karthick Balaji ...	Music
Passed	Apr 11	Windows 10	Karthick S	Mallu karthick Balaji ...	Music
Passed	Apr 11	Windows 10	Karthick S	Mallu karthick Balaji ...	Music

At the bottom of the results window, there is a link: [Open execution history for current test point](#).

## 8. Test report summary

The screenshot shows the Azure DevOps Work Items page for a bug report. The left sidebar contains navigation options like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays the bug report details for 'BUG 203 - BG 01 - Countries Drop down Not Available on the page'. The bug is assigned to 'rajesh prabhu' and has a state of 'New'. The 'Repro Step' section shows the following steps:

1. **Passed** Open Chrome Browser  
Expected Result: Browser should open in a new tab
2. **Passed** Paste the URL (https://127.0.0.1/new.html)  
Expected Result: App should load with new articles
3. **Failed** Section should show a list with list of countries.  
Produce Report

The right sidebar contains sections for 'Planning' (Resolved Reason, Story Points, Priority, Severity, Activity) and '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. [Link more about deployment status reporting](#)). The 'Development' section includes a link to 'Add link' and a note: '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.'

- Assigning bug to the developer and changing state

Microsoft Azure Portal | Music Playlist Batch Creator | Test Plans | Runs

Run 48 - TS02 - View Playlists (Manual) / TC06 - Playlist Loading Failure

92 TB01 - Playlist loading spinner keeps spinning indefinitely on poor network

Karthick S

0 comments

Save & Close

Follow

Updated by Karthick S 33m ago

Details

Repro Steps

18-04-2025 03:23 Bug filed on "TC06 - Playlist Loading Failure"

Step no.	Result	Title
1.	Failed	Disconnect from internet
		Expected Result
		Network is offline
2.	Failed	Comments: Page Not loading
		Navigate to "My Playlists"
		Expected Result

Error message "Unable to load playlists" is shown

Test Configuration: Windows 10

Planning

Resolved Reason

Story Points

Priority 2

Severity 3 - Medium

Activity

Effort (Hours)

Original Estimate

Remaining

Completed

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

77 TC06 - Playlist Loading Failure

Updated 10-04-2025 - Design

System Info

Comment Page Not loading

2. Navigate to "My Playlists"

## 9. Progress report

Microsoft Azure Portal | Music Playlist Batch Creator | Test Plans | Progress report

Progress report

Music Playlist Batch Creator - Test Plan

Summary

1 Test plans

14 Test points

14 (14 / 14) Test points run

100% Run

100% (14 / 14) Pass rate

14 Passed

Outcome trend

Last 14 Days

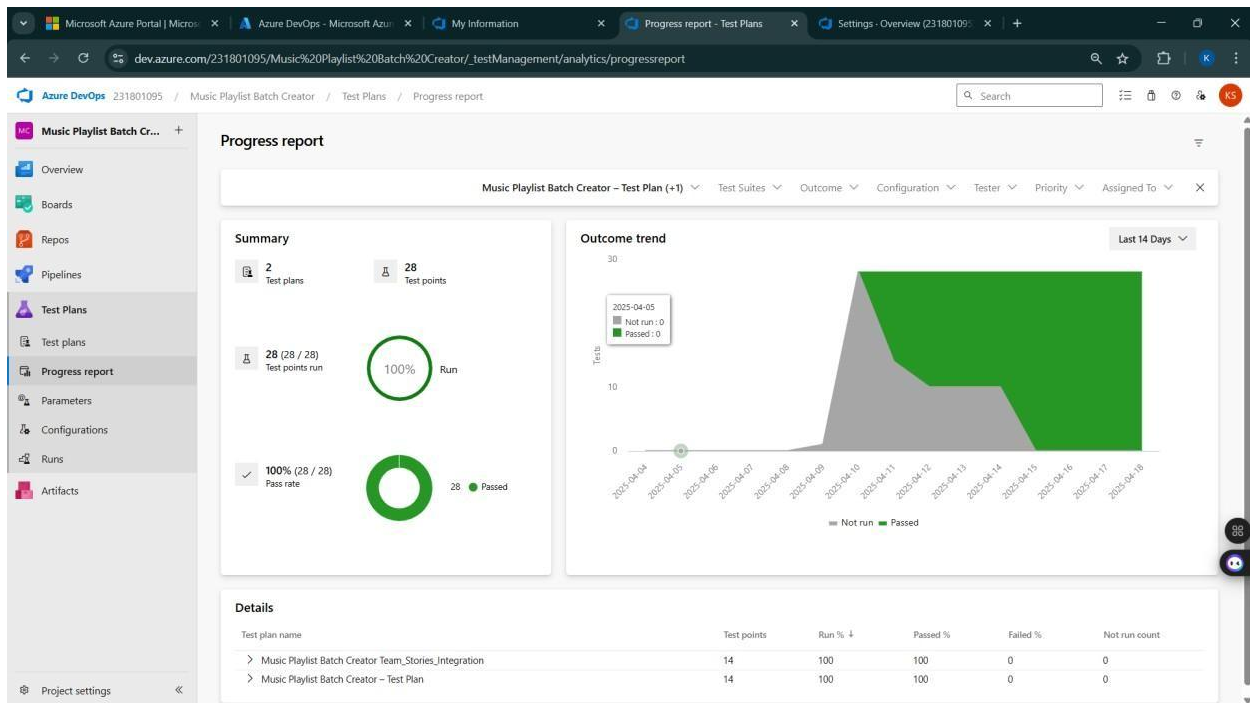
Tests

Not run Passed

Details

Test plan name	Test points	Run %	Passed %	Failed %	Not run count
Music Playlist Batch Creator - Test Plan	14	100	100	0	0
TS01 - User Login	4	100	100	0	0
TS02 - View Playlists	2	100	100	0	0
TS03 - Real-Time Metadata	2	100	100	0	0
TS04 - Playlist Editing	4	100	100	0	0
TS05 - Smart Playlist Creation	2	100	100	0	0





## 10. Changing the test template

Microsoft Azure Portal | Microsoft Azure DevOps - Microsoft Azure | My Information | Test Plan 84 Music Playlist | Settings - Process (231801095) | Settings - Overview (231801095) | +

dev.azure.com/231801095/\_settings/process

Azure DevOps 231801095 / Settings / Process

### Organization Settings

231801095

Search Settings

**General**

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

**Security**

- Security overview
- Policies
- Permissions

**Boards**

- Process

**Pipelines**

- Agent pools
- Settings
- Deployment pools

### All processes

Filter by process name

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 practicing Scrum.	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 record.	0

Microsoft Azure Portal | M x Azure DevOps - Microsoft x My Information x Test Plan 84 Music Playlist x Settings - Process (231801095) x Settings - Overview (231801095) x

dev.azure.com/231801095/\_settings/process

Azure DevOps 231801095 / Settings / Process

Organization Settings 231801095

Search Settings

General

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

Security

- Security overview
- Policies
- Permissions

Boards

- Process

Pipelines

- Agent pools
- Settings
- Deployment pools

All processes

Processes Fields

Filter by process name

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 practicing Scrum.	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 record.	0

Microsoft Azure Portal | M x Azure DevOps - Microsoft x My Information x Test Plan 84 Music Playlist x Settings - Process (231801095) x Settings - Overview (231801095) x

dev.azure.com/231801095/\_settings/process

Azure DevOps 231801095 / Settings / Process

Organization Settings 231801095

Search Settings

General

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

Security

- Security overview
- Policies
- Permissions

Boards

- Process

Pipelines

- Agent pools
- Settings
- Deployment pools

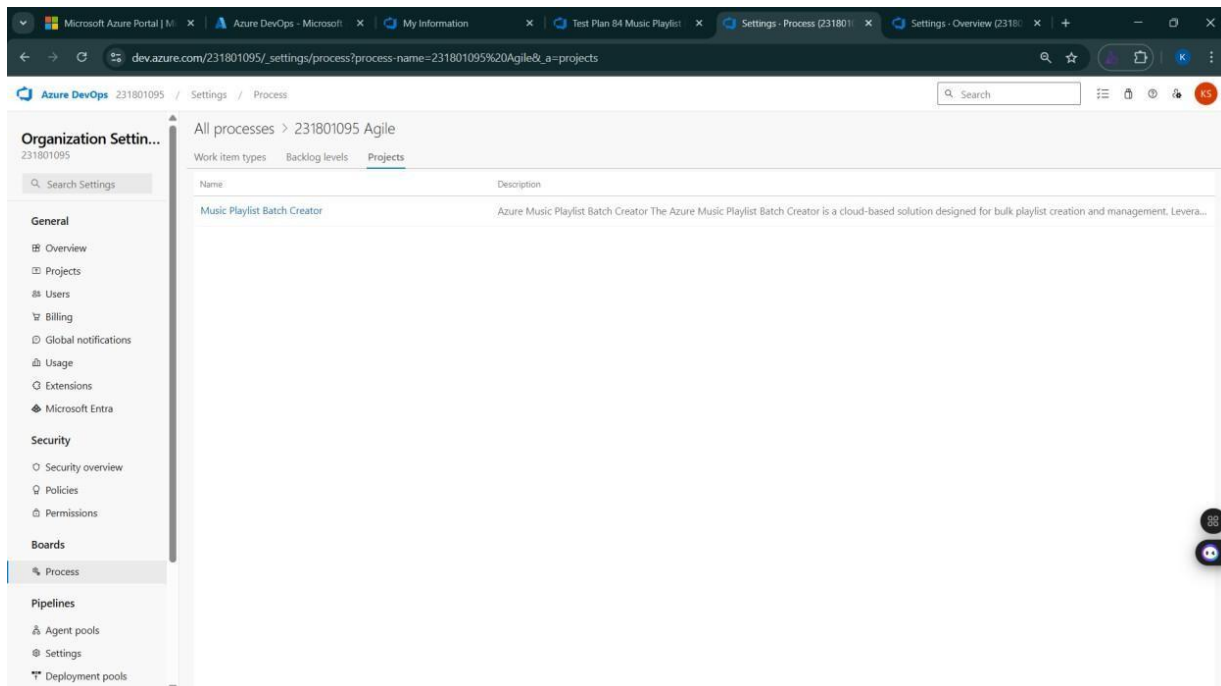
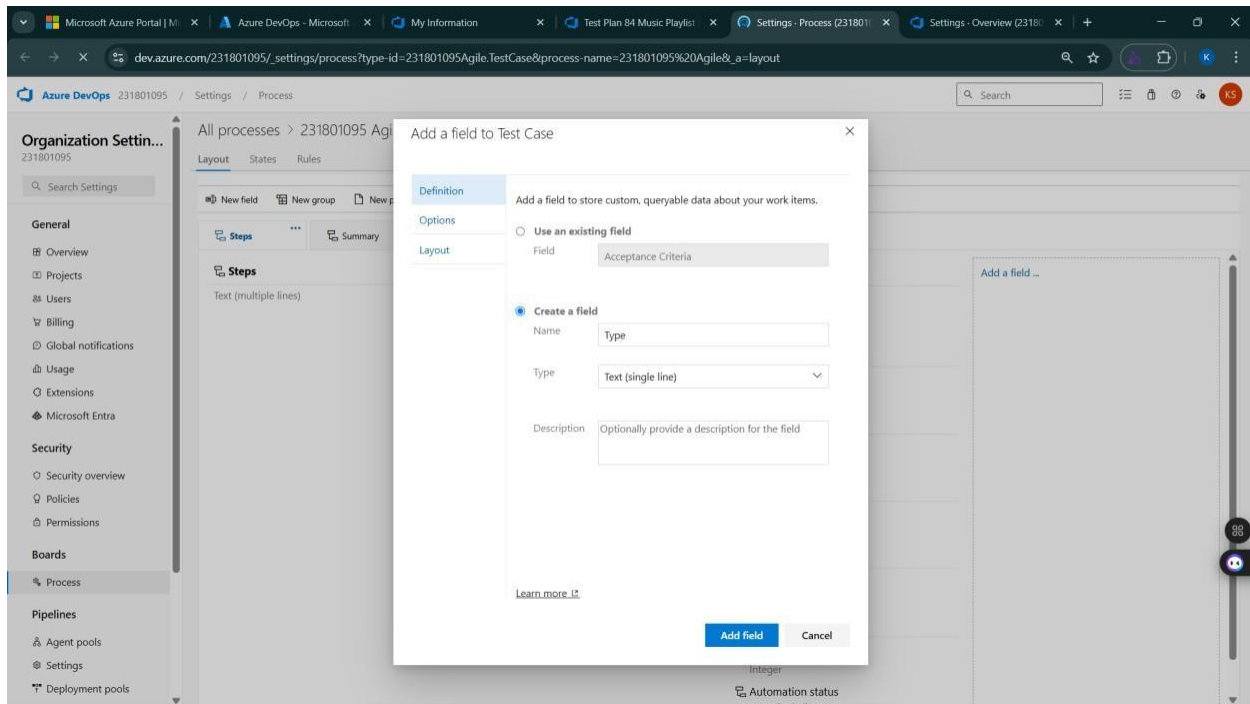
All processes

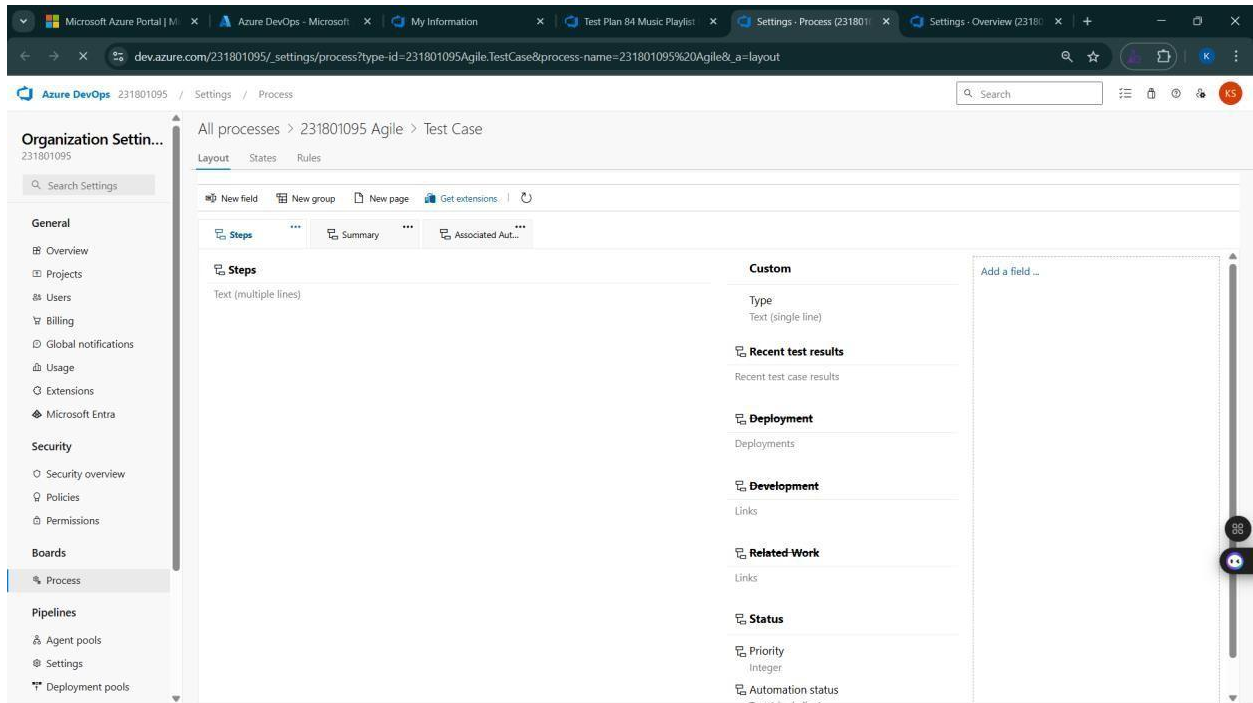
Processes Fields

Filter by process name

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 practicing Scrum.	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 record.	0

## 11. View the new test case template





## 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:

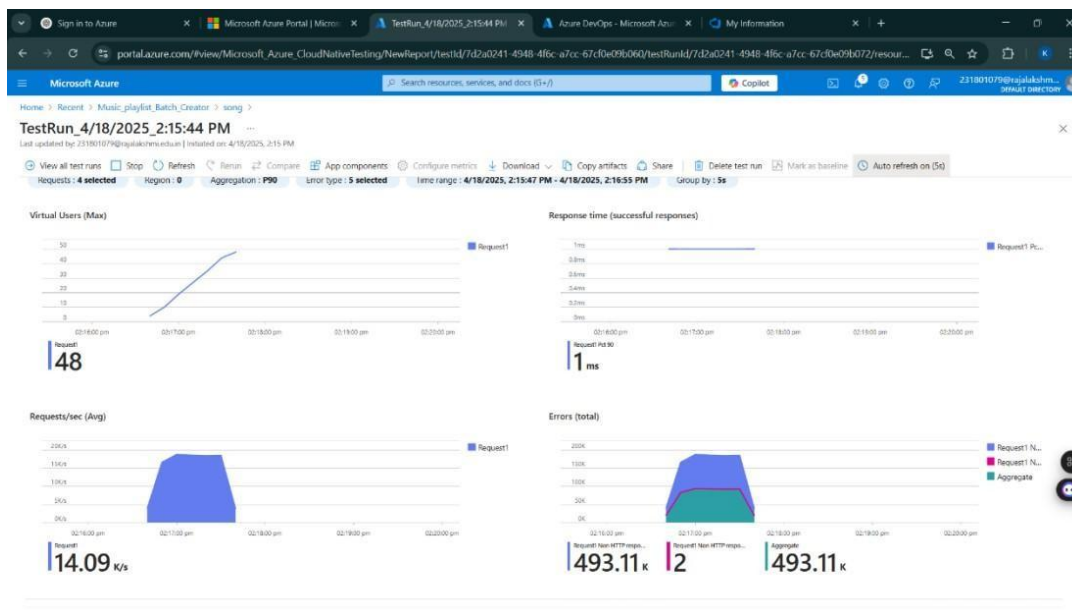
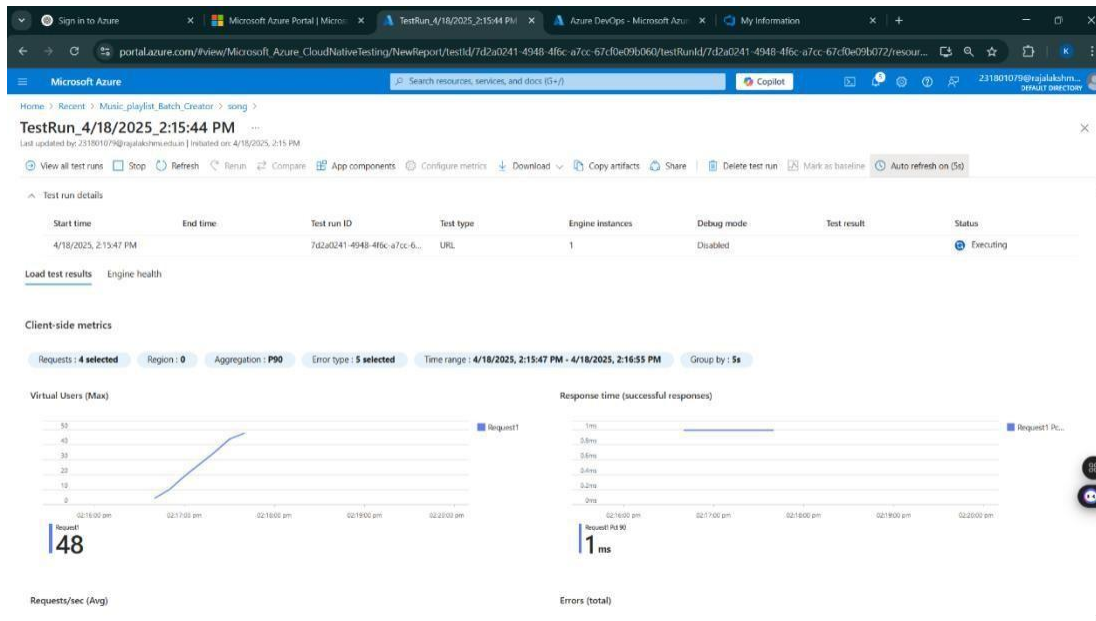
1. Sign in to Azure Portal  
Go to <https://portal.azure.com> and log in.
2. Create the Resource
  - Go to *Create a resource* → Search for “Azure Load Testing”.
  - Select Azure Load Testing and click Create.
3. Fill in the Configuration Details
  - *Subscription*: Choose your Azure subscription.
 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



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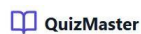
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⌚ 10 mins | 3 questions | 📅 Created Jan 15, 2023

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#### Data Science Fundamentals

Medium

Test your knowledge of data science concepts and techniques.

⌚ 15 mins | 2 questions | 📅 Created Feb 20, 2023

Technology[Details](#)[Start Quiz](#)

#### World Geography

Medium

Test your knowledge of countries, capitals, and geographical features.

⌚ 20 mins | 3 questions | 📅 Created Mar 10, 2023

Geography[Details](#)[Start Quiz](#)



## Data Science Fundamentals

⌚ 9:55

Question 1 of 2

15 points

## Question 1 of 2

Points: 15

What is the process of finding patterns in large datasets called?

- ☐ Data Mining
- ☐ Data Cleaning
- ☐ Data Visualization
- ☐ Data Collection

[Previous](#)[Next](#)[Exit Quiz](#)[Previous](#)[Next Question](#)**Result:**

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



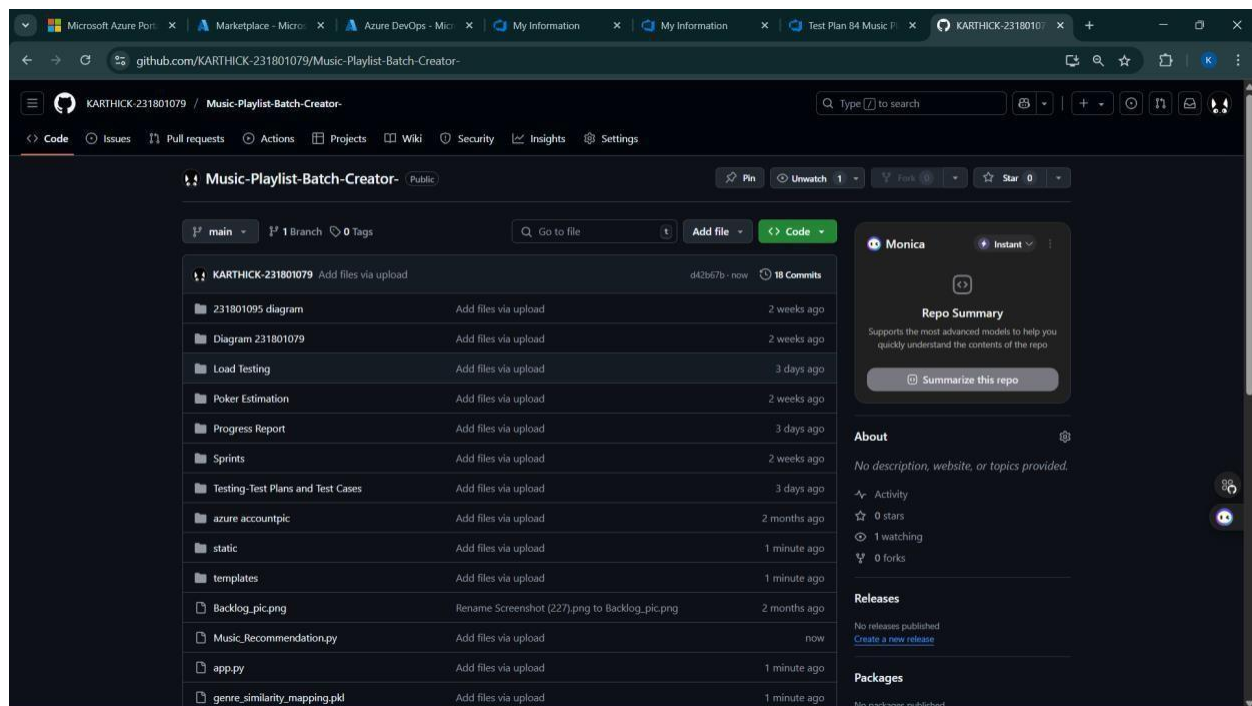
**EXP NO: 10**

## **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.