

**EXP NO: 1**

## **AZURE DEVOPS ENVIRONMENT SETUP**

### **Aim:**

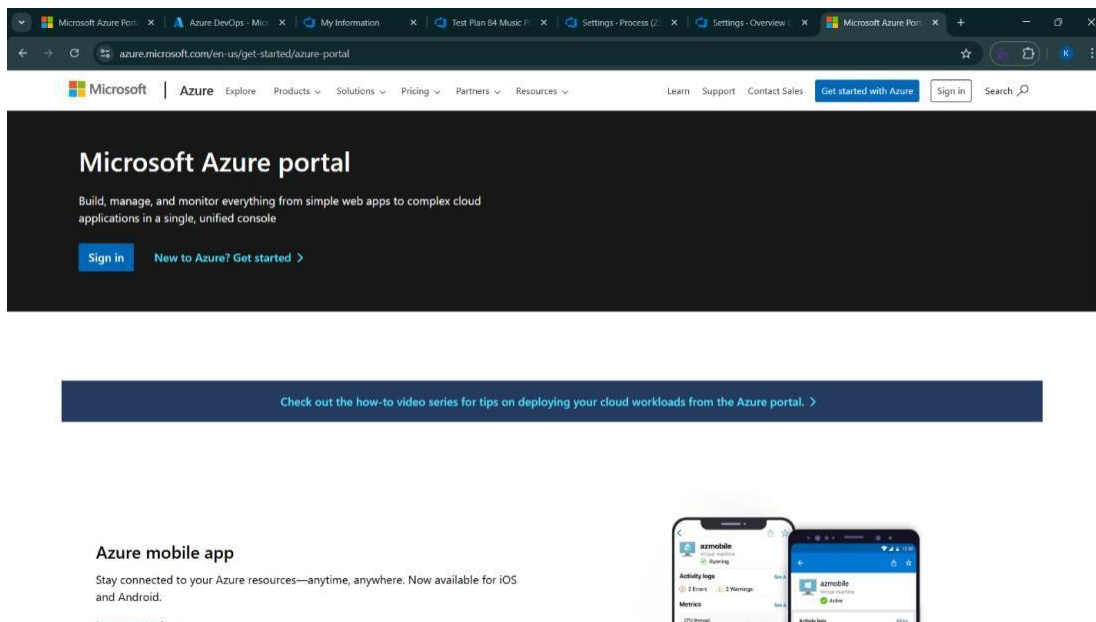
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

### **INSTALLATION**

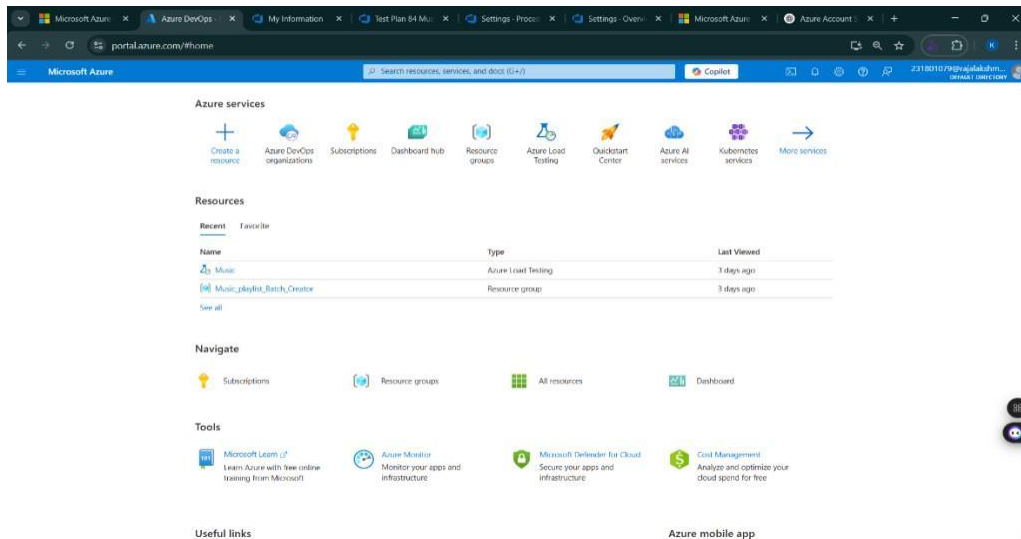
1. Open your web browser and go to the Azure website: <https://azure.microsoft.com/en-us/get-started/azure-portal>.

Sign in using your Microsoft account credentials.

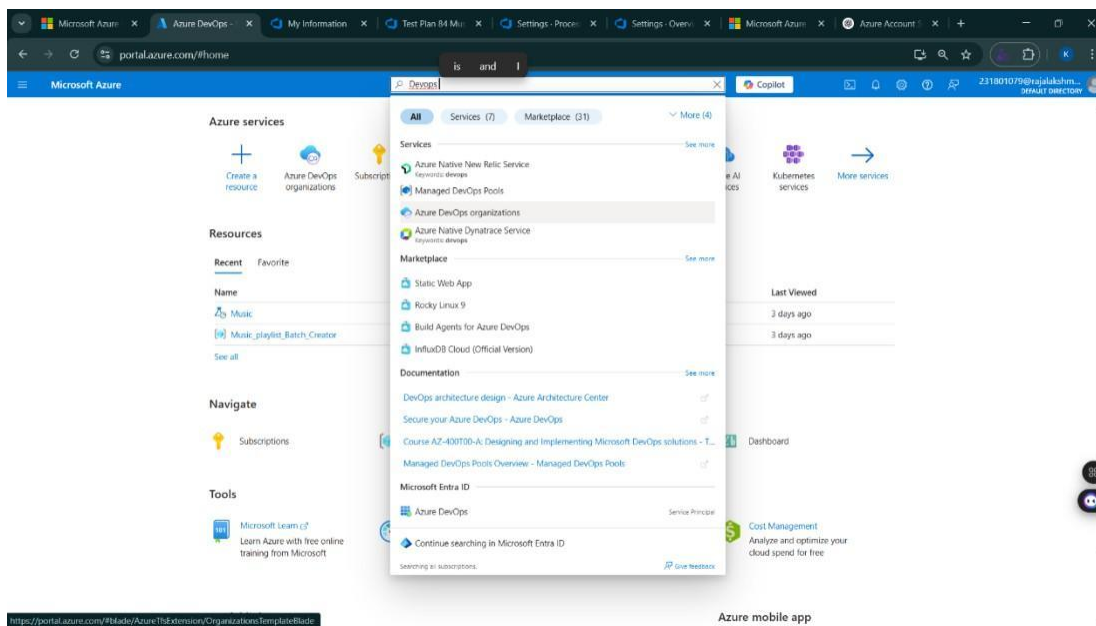
If you don't have a Microsoft account, you can create one here: <https://signup.live.com/?lic=1>



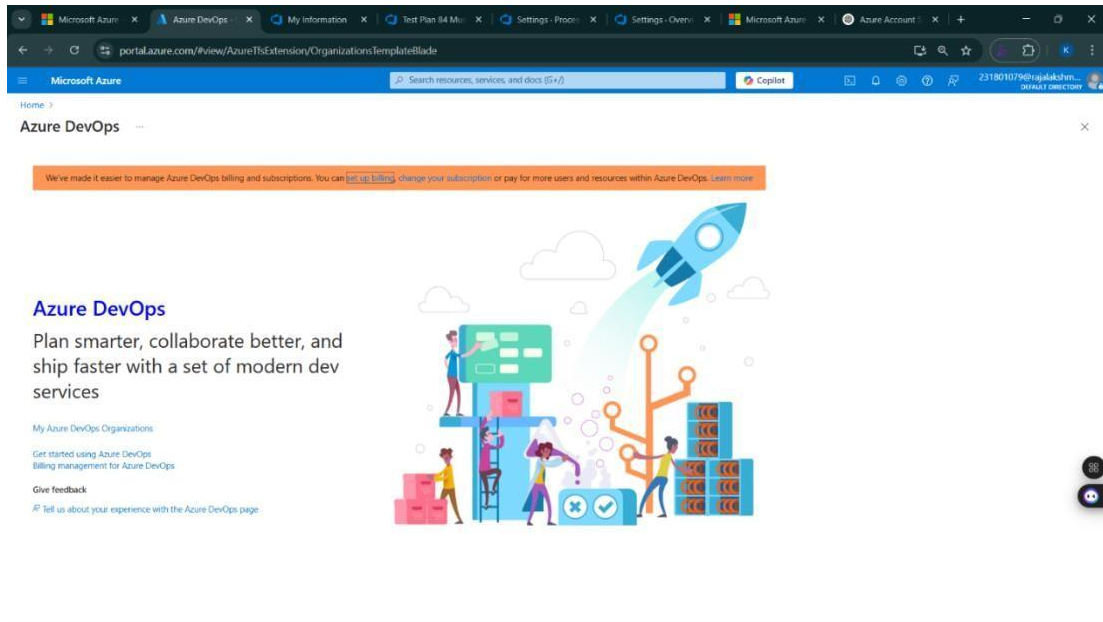
## 2. Azure home page



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



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



## Result:

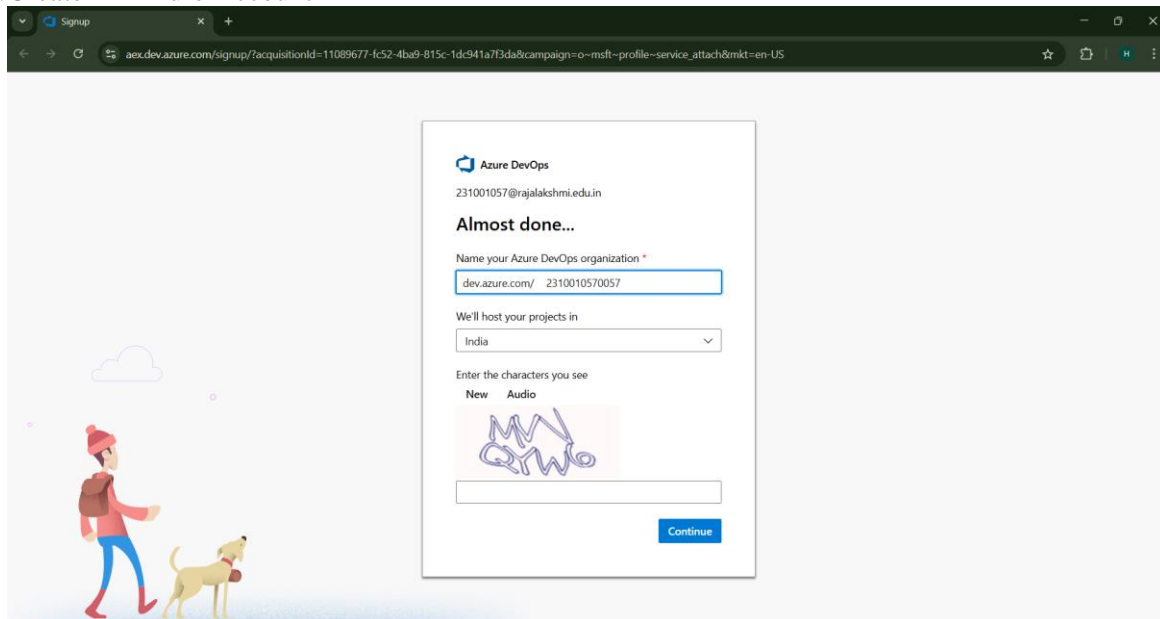
Successfully accessed the Azure DevOps environment and created a new organization through the Azure portal.

EXP NO: 2	<b>AZURE DEVOPS PROJECT SETUP AND USER STORY MANAGEMENT</b>
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**Aim:**

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

1. Create An Azure Account



2. Create the First Project in Your Organization

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

## Create a project to get started

Project name \*

E LEARNING PLATFORM

### Visibility



#### Public

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



#### Private

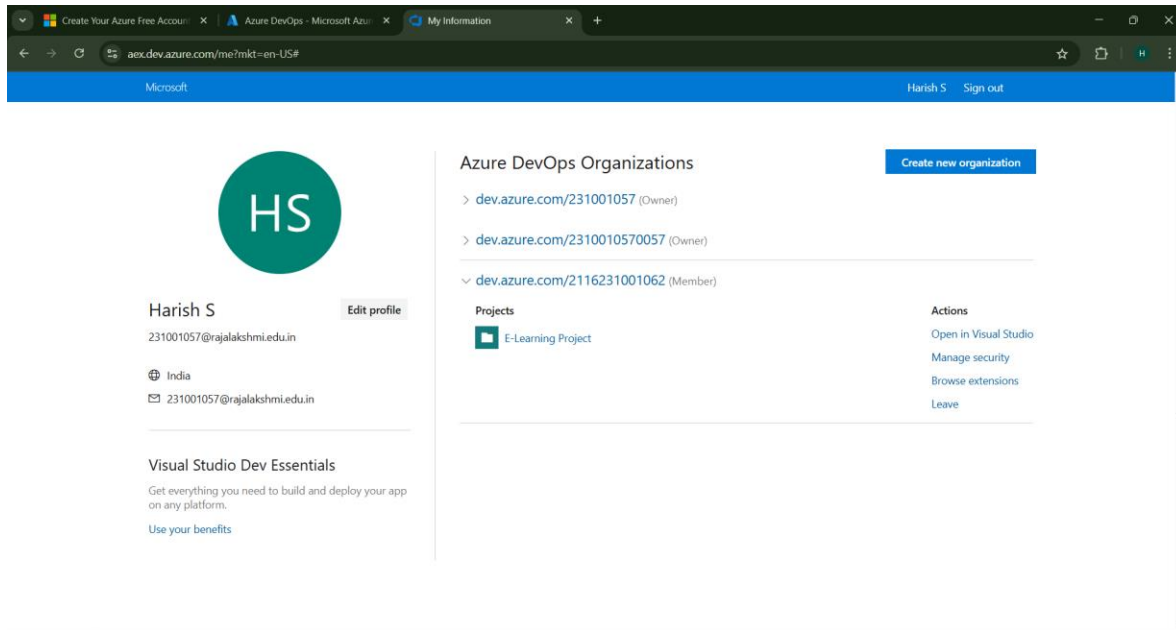
Only people you give access to will be able to view this project.



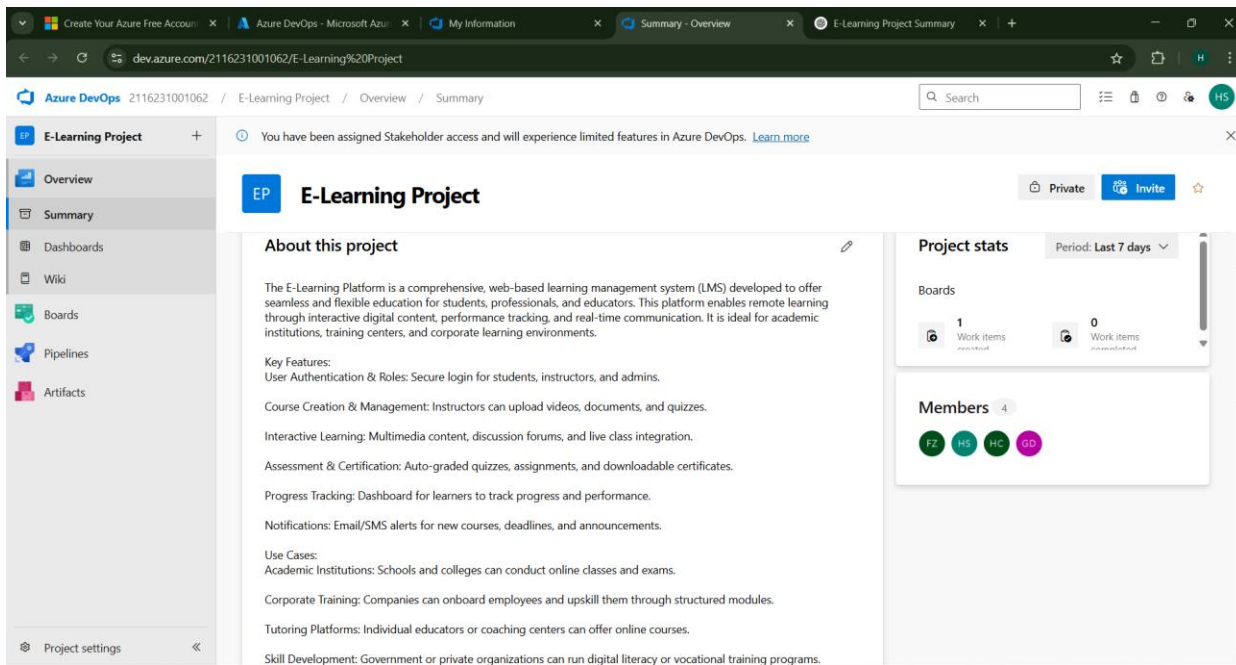
Public projects are disabled for your organization. You can turn on public visibility with [organization policies](#).

+ Create project

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



#### 4. Project dashboard



5. To manage user stories:

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

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

The screenshot shows the Azure DevOps interface for the 'E-Learning Project Team'. The left-hand navigation menu is visible, with 'Boards' selected. The main area displays the 'Backlog' view for the 'E-Learning Project Team'. A table lists work items, all of which are 'Epic' type and 'New' state. The right-hand pane shows the 'Planning' view, which includes a timeline for the 'E-Learning Project Team backlog' and details for 'Iteration 1' and 'Iteration 2'.

Order	Work Item Type	Title	State	Effort	Busin...	Value
1	Epic	> 🏰 Course Content Enhancement and Multimedia Integration	New		Busin...	
2	Epic	> 🏰 Course Discovery and Enrollment	New		Busin...	
3	Epic	> 🏰 Learning Material Access and Engagement	New		Busin...	
4	Epic	> 🏰 Assignments and Grading	New		Busin...	
5	Epic	> 🏰 Communication and Collaboration	New		Busin...	
6	Epic	> 🏰 Course Management for Instructors	New		Busin...	
7	Epic	> 🏰 Student Engagement and Communication	New		Busin...	
8	Epic	> 🏰 Platform Personalization and Accessibility	New		Busin...	

This screenshot shows a Microsoft sign-in overlay on top of the Azure DevOps interface. The overlay displays the user's profile: 'Harish S' with email '231001057@rajalakshmi.edu.in'. It includes links for 'My Microsoft account' and 'Switch directory'. A 'Sign in with a different account' button is also visible. The background shows the 'E-Learning Project Team backlog' with a table of work items.

State	Effort	Busin...	Value
New		Busin...	
New		Busin...	
New		Busin...	

**Result:**

Successfully created an Azure DevOps project with user story management and an 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

Order	Work Item Type	Title	State	Effort	Business Value	Value Area	Tags
1	Epic	Course Content Enhancement and Multimedia Integration	New			Business	
	Feature	Multimedia Lesson Integration	New			Business	
	User Story	YouTube Videos in Lessons	New			Business	
	User Story	Attach PDF Study Materials	New			Business	
	User Story	Add Interactive Elements in Lessons	New			Business	
	Feature	Supplementary Resource Management	New			Business	
2	Epic	Course Discovery and Enrollment	New			Business	
3	Epic	Learning Material Access and Engagement	New			Business	
4	Epic	Assignments and Grading	New			Business	
5	Epic	Communication and Collaboration	New			Business	
6	Epic	Course Management for Instructors	New			Business	
7	Epic	Student Engagement and Communication	New			Business	
8	Epic	Platform Personalization and Accessibility	New			Business	

## 1.Fill in Epics

**Description**

Click to add Description.

**Discussion**

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

**Planning**

Priority: 2

Risk

Effort

Business Value

Time Criticality

Start Date: Select a date...

Target Date: Select a date...

**Classification**

Value area: Business

**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

Child

## 2.Fill in Features

FEATURE 59

59 Multimedia Lesson Integration

No one selected0 CommentsAdd Tag

Save and CloseFollow

Updated by Harish S: Apr 25

Details

StateNew

AreaE-Learning Project

ReasonNew

IterationE-Learning Project/Iteration 1

Description

Click to add Description.

Discussion

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

Planning

Priority2

Risk

Effort

Business Value

Time Criticality

Start Date

Target Date

Classification

Value area

Business

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

58 Course Content Enhancement and Multimedia L...  
Updated Apr 25 • New

## 3.Fill in User Story Details

USER STORY 60

60 YouTube Videos in Lessons

No one selected0 CommentsAdd Tag

Save and CloseFollow

Updated by Harish S: Apr 25

Details

StateNew

AreaE-Learning Project

ReasonNew

IterationE-Learning Project/Iteration 1

Description

As an **instructor**, I want to embed YouTube videos into my lessons, so that students can benefit from external visual resources.

Acceptance Criteria

- Acceptance Criteria 1:** Instructors can embed YouTube links into lesson content using a video block.
- Acceptance Criteria 2:** Students can play the video directly without being redirected from the platform.

Discussion

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

Planning

Story Points

Priority2

Risk

Classification

Value area

Business

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

59 Multimedia Lesson Integration  
Updated Apr 25 • New

**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 DevOps interface for the 'E-Learning Project Team'. The left sidebar contains navigation options: Overview, Boards, Work items, Boards, Backlogs, Sprints (selected), Queries, Delivery Plans, Pipelines, Artifacts, and Project settings. The main area displays the 'Taskboard' view for 'Iteration 1'. The board has columns for 'New', 'Active', 'Resolved', and 'Closed'. Three work items are visible in the 'New' column:

- 61 Attach PDF Study Materials (New, Unassigned)
- 62 Add Interactive Elements in Lessons (New, Unassigned)
- 64 Add Recommended Reading Links (New, Unassigned)

Each work item card shows a title, a 'New' status, and an 'Unassigned' person icon. The board also includes a 'Collapse all' button and a 'No iteration dates' warning.

## Sprint-2

dev.azure.com/2116231001062/E-Learning%20Project/\_sprints/taskboard/E-Learning%20Project%20Team/E-Learning%20Project/iteration%202

Azure DevOps 2116231001062 / E-Learning Project / Boards / Sprints

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

### E-Learning Project Team

+ New Work Item Column Options

Taskboard Backlog Analytics

Iteration 2 Person: All No iteration dates

Collapse all	New	Active	Resolved	Closed
6 One-Click Course Enrollment New Hemanth C				
7 Access Welcome and Orientation Material New Unassigned				
35 Send Private Messages New				

## Sprint 3

dev.azure.com/2116231001062/E-Learning%20Project/\_sprints/taskboard/E-Learning%20Project%20Team/E-Learning%20Project/iteration%203

Azure DevOps 2116231001062 / E-Learning Project / Boards / Sprints

Search

E-Learning Project

Overview

Boards

Work items

Boards

Backlogs

Sprints

Queries

Delivery Plans

Pipelines

Artifacts

Project settings

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

E-Learning Project Team

+ New Work Item

Column Options

Taskboard Backlog Analytics

Iteration 3 Person: All

No iteration dates

	New	Active	Resolved	Closed
<b>Collapse all</b>				
22 Lesson Assignments and Lesson Completion	New Unassigned			
70 Pin Favorite Course	New Unassigned			
73 Support Screen Readers for Course Content	New Unassigned			

## Sprint 4

dev.azure.com/2116231001062/E-Learning%20Project/\_sprints/taskboard/E-Learning%20Project%20Team/E-Learning%20Project/iteration-4

Azure DevOps 2116231001062 / E-Learning Project / Boards / Sprints

Search

E-Learning Project

Overview

Boards

Work items

Boards

Backlogs

Sprints

Queries

Delivery Plans

Pipelines

Artifacts

Project settings

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

E-Learning Project Team

+ New Work Item

Column Options

Taskboard Backlog Analytics

Iteration-4 Person: All

May 31 - June 30  
21 work days

	New	Active	Resolved	Closed
<b>Collapse all</b>				
28 Upload Assignments Online	New Unassigned			
29 View Submission History	New Unassigned			

**Result:**

The Sprints are created for the E-Learning Project.

<b>EXP NO: 5</b>	<b>POKER ESTIMATION</b>
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### Aim:

Create Poker Estimation for the user stories - E-Learning Project.

### Poker Estimation

The screenshot shows the Azure DevOps interface for a User Story titled "Track Course Progress" (ID 10). The story is assigned to "Fagrudeen Faizan Z" and is in the "Active" state. It is part of the "E-Learning Project" area and has a reason of "Implementation started". The story is currently in the "Planning" phase.

**Description:**

**Acceptance Criteria**

- A progress bar shows percentage of course completed.
- Completed modules, watched videos, and submitted assignments are logged.
- Students receive alerts for pending tasks and upcoming deadlines.

**Discussion**

**Planning**

- Story Points: 10
- Priority: 2
- Risk: 2 - Medium

**Classification**

- Value area: Business

**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**

### Result:

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



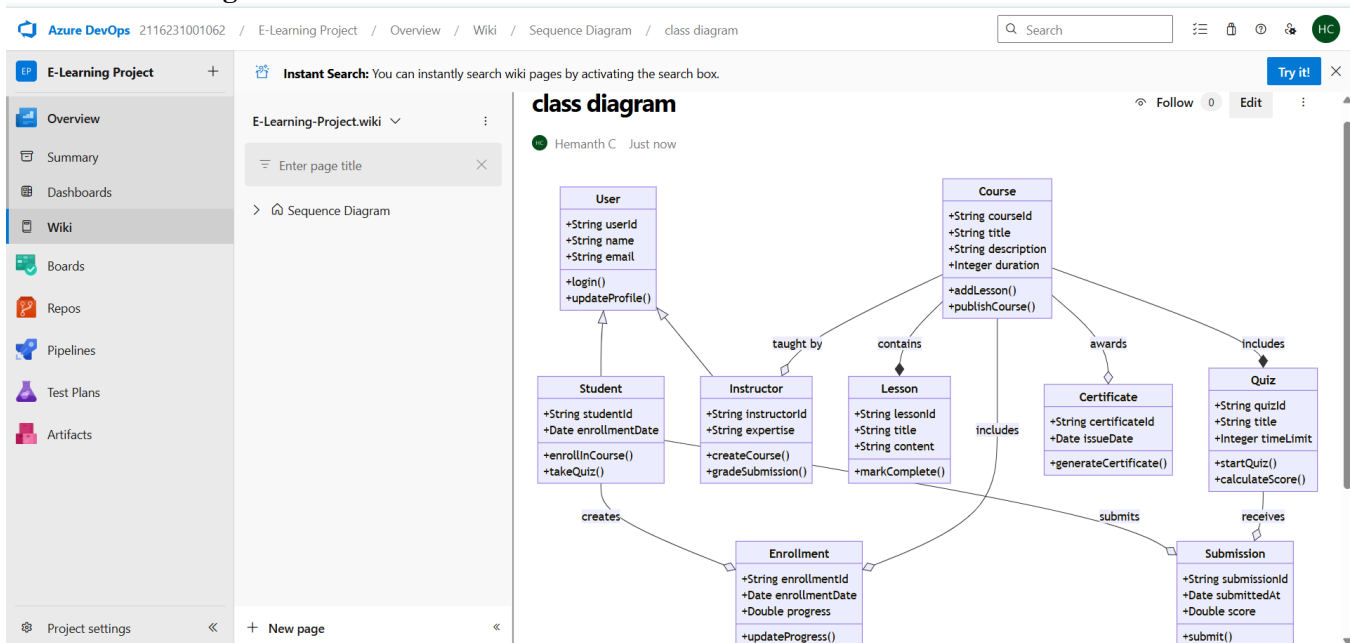
EXP NO: 6

# DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE

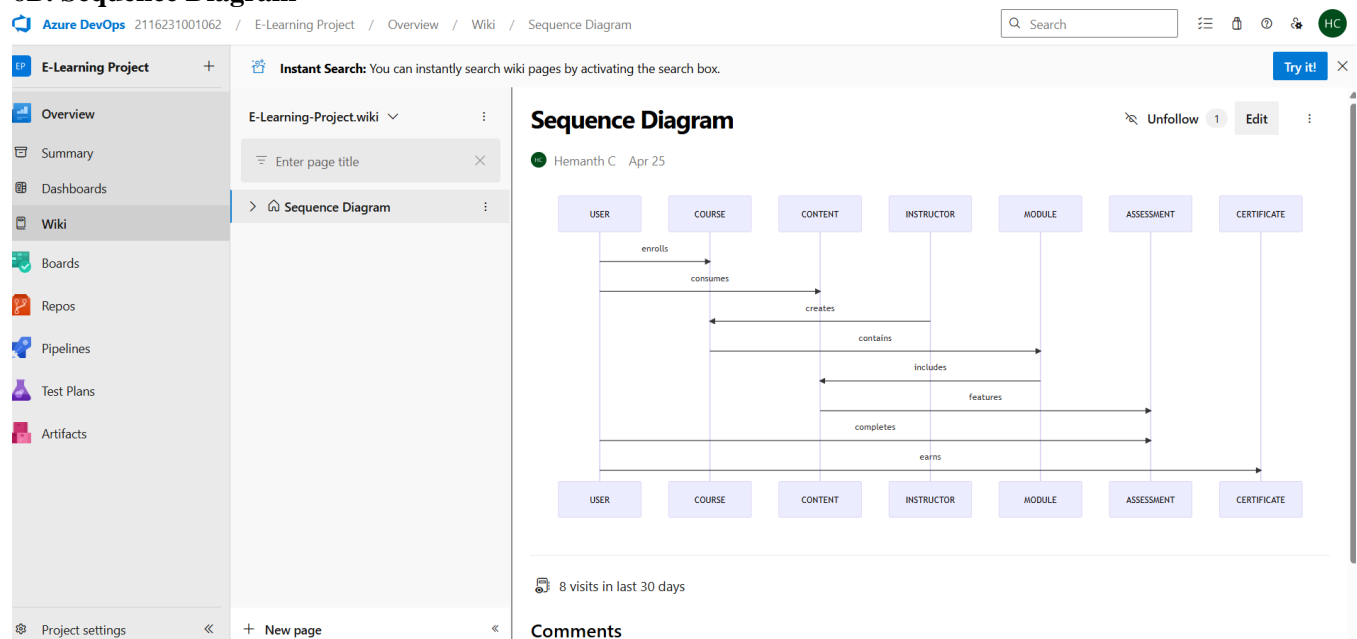
**Aim:**

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 E-learning platform project.

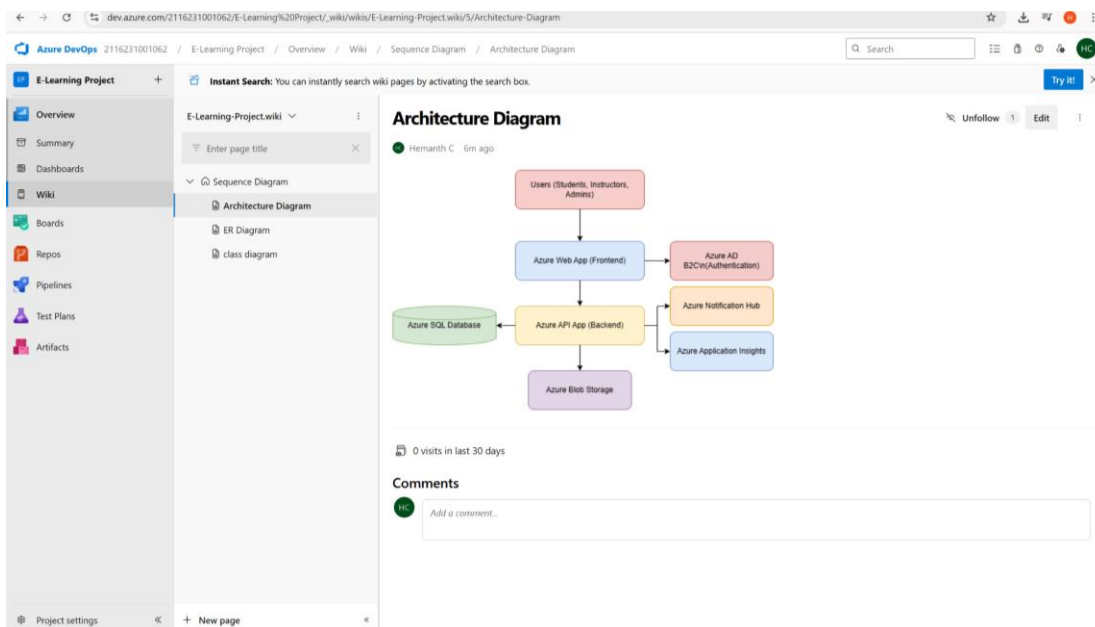
**EXP NO: 7**

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

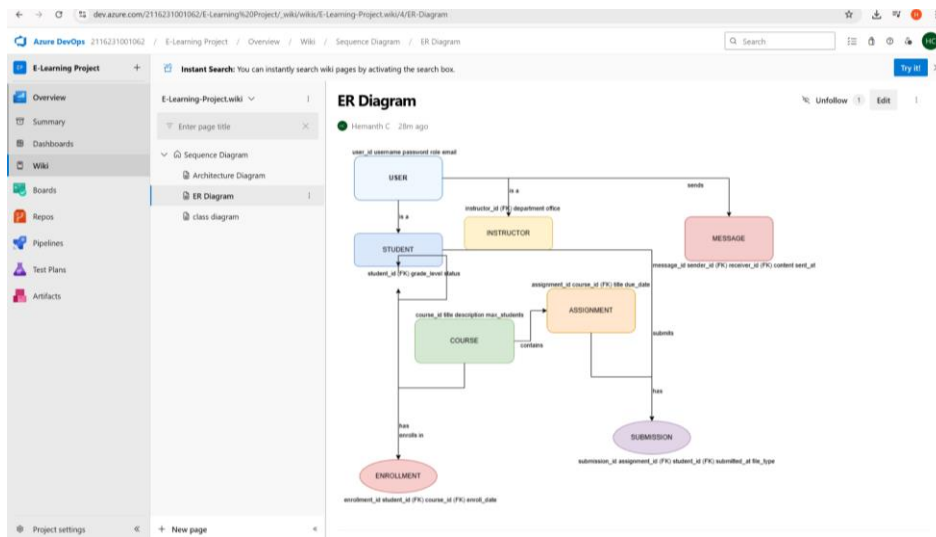
**Aim:**

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 E-Learning platform project.

<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 course
- Fetching Real-time Metadata
- Editing course (rename, reorder, record)
- Creating smart course playlists based on categories

**2. Define User Interactions**

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

**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 , or creates a category-based .

**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 Fails).
- Helps in quick identification and linking to user stories or features.

**7. Separate Test Suites**

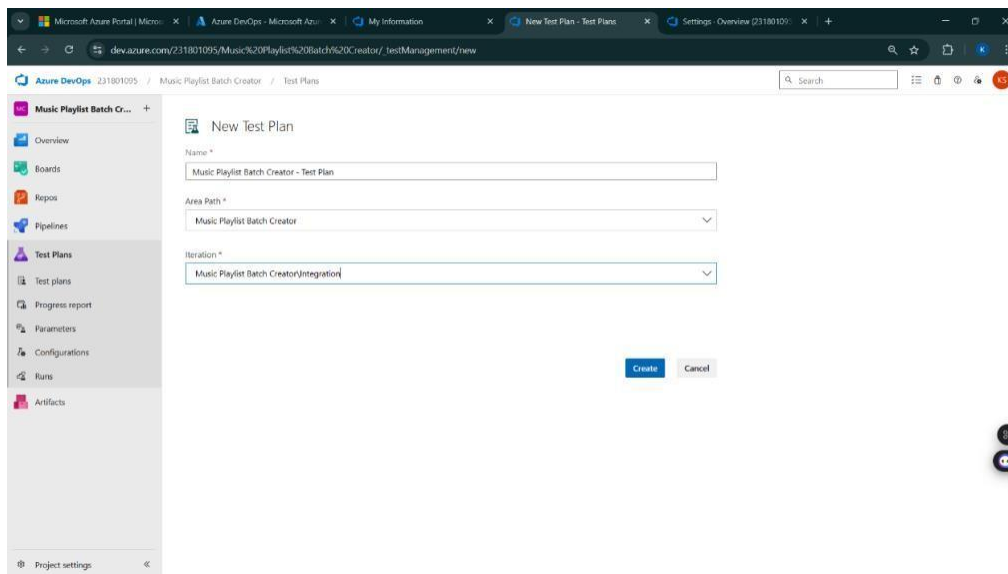
- Grouped test cases based on functionality (e.g., Login, Editing, Recommendation System).

- Improves organization and test execution flow in Azure DevOps.

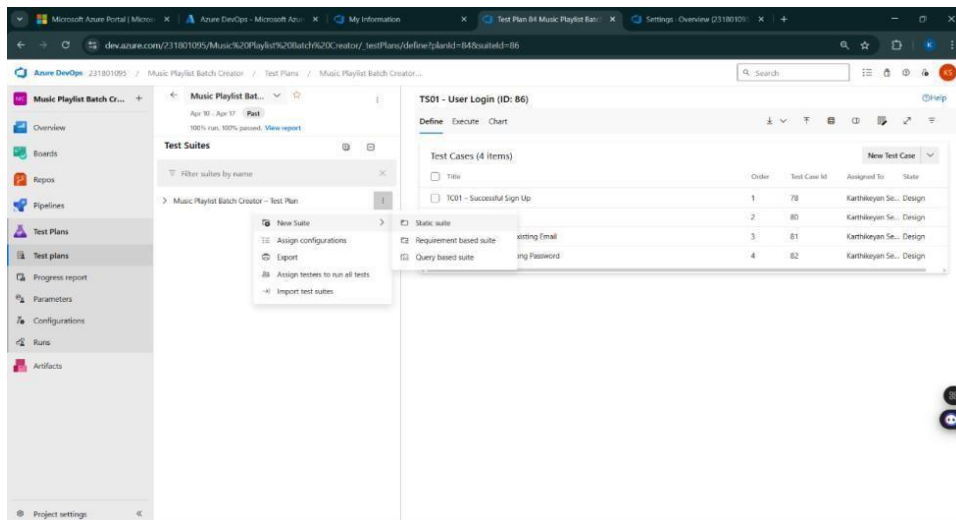
## 8. Prioritize and Review

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

## 1.New test plan



## 2.Test suite



### **3. Test case**

#### **TC01 – Successful Sign Up**

**Action:**

- Go to the Sign-Up page.
- Enter a valid name, email, and password.
- Click "Sign Up".

**Expected Results:**

- Form is displayed properly.
- Fields accept valid input.
- Account is created, and the user is redirected to the dashboard.

**Type:** Happy Path

#### **TC02 – Sign Up with Existing Email**

**Action:**

- Go to the Sign-Up page.
- Enter a name and an already registered email.
- Click "Sign Up".

**Expected Results:**

- Fields accept input.
- Error message "Email already registered" is shown.

**Type:** Error Path

### **Test Suite: TS02 - Course Dashboard (ID: 202)**

#### **TC03 – View Enrolled Courses**



**Action:**

- Login successfully.
- Navigate to "My Courses".

**Expected Results:**

- All enrolled courses are listed with thumbnails and progress indicators.

**Type:** Happy Path

### **TC04 – Courses Not Loading**

**Action:**

- Disconnect internet.
- Navigate to "My Courses".

**Expected Results:**

- Page loads with placeholder.
- Error message "Unable to load courses. Please check your connection." is shown.

**Type:** Error Path

## **Test Suite: TS03 - Course Enrollment (ID: 203)**

### **TC05 – Successful Course Enrollment**

**Action:**

- Login successfully.
- Navigate to "Course Catalog".
- Select a course and click "Enroll".

**Expected Results:**

- Course is added to "My Courses" list.

- Confirmation message "Successfully enrolled" is shown.

**Type:** Happy Path

### **TC06 – Enrollment Failure Due to Server Issue**

**Action:**

- Login successfully.
- Select a course and click "Enroll".
- Simulate backend server error.

**Expected Results:**

- Enrollment fails.
- Error message: "Unable to enroll at this moment. Try again later."

**Type:** Error Path

## **Test Suite: TS04 - Quiz System (ID: 204)**

### **TC07 – Take and Submit Quiz Successfully**

**Action:**

- Navigate to an enrolled course.
- Click on "Start Quiz".
- Answer all questions.
- Click "Submit".

**Expected Results:**

- Quiz is submitted.
- Immediate feedback and score are displayed.

**Type:** Happy Path

### **TC08 – Quiz Submission Timeout**

**Action:**

- Start a quiz.
- Wait until the session times out without submitting.

**Expected Results:**

- Quiz auto-submits.
- Message: "Session expired. Auto-submitted."
- Partial feedback shown if applicable.

**Type:** Error Path

## **Test Suite: TS05 - Progress Tracking (ID: 205)**

### **TC09 – Real-Time Progress Updates**

**Action:**

- Start watching a lesson video.
- Mark lesson as completed.

**Expected Results:**

- Progress bar updates instantly.
- Course dashboard reflects updated status.

**Type:** Happy Path

## TC10 – Progress Not Updating Due to Session Expiry

### Action:

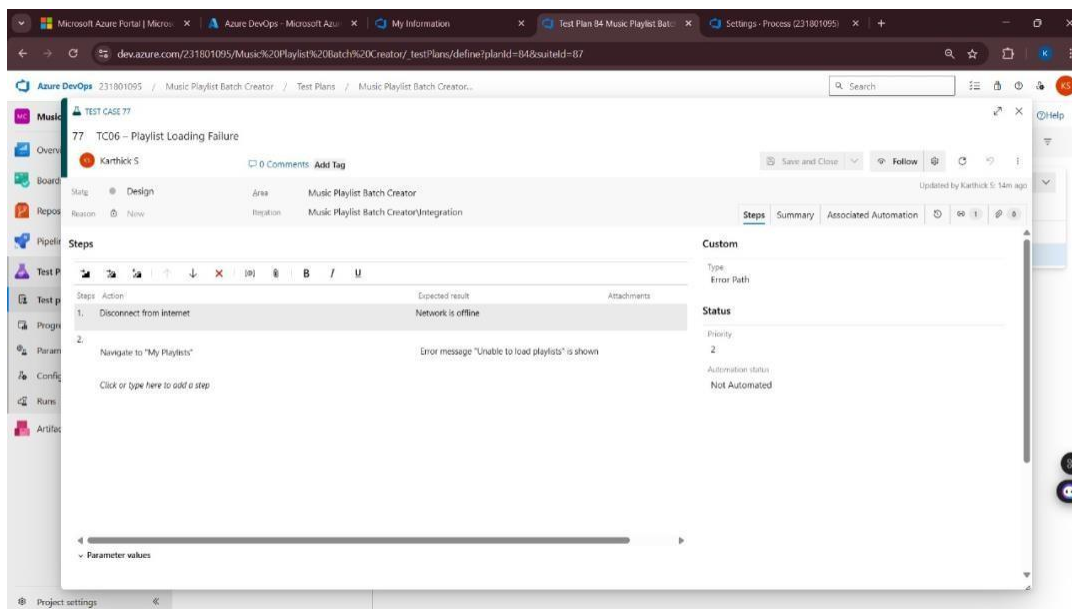
- Start a lesson.
- Stay idle until session expires.
- Try to mark lesson as completed.

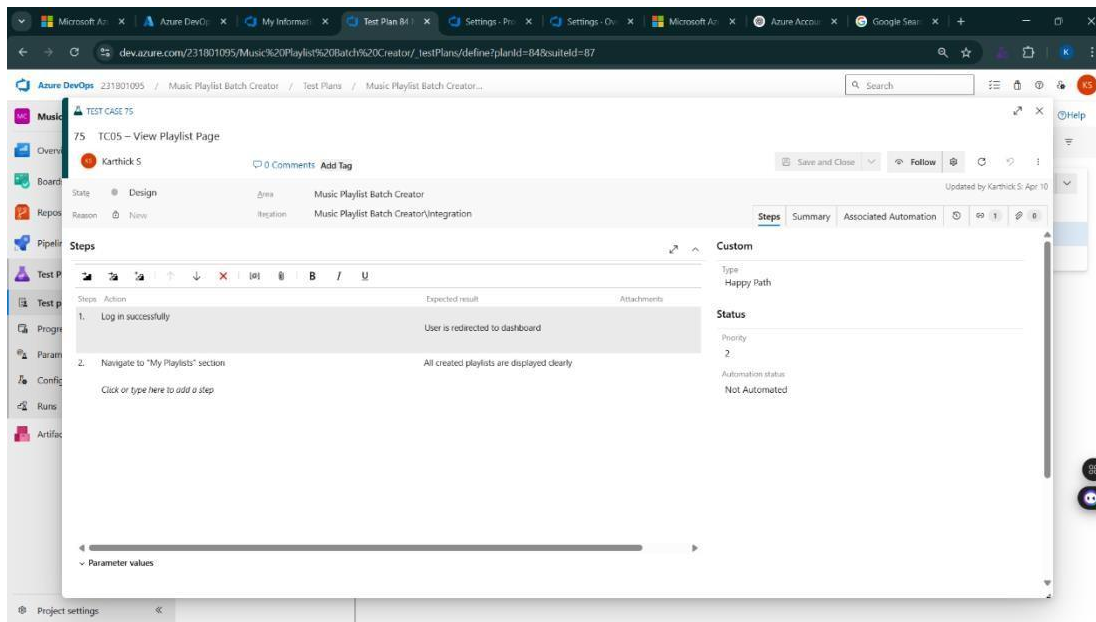
### Expected Results:

- Action fails.
- Message: "Session expired. Please log in again to continue."

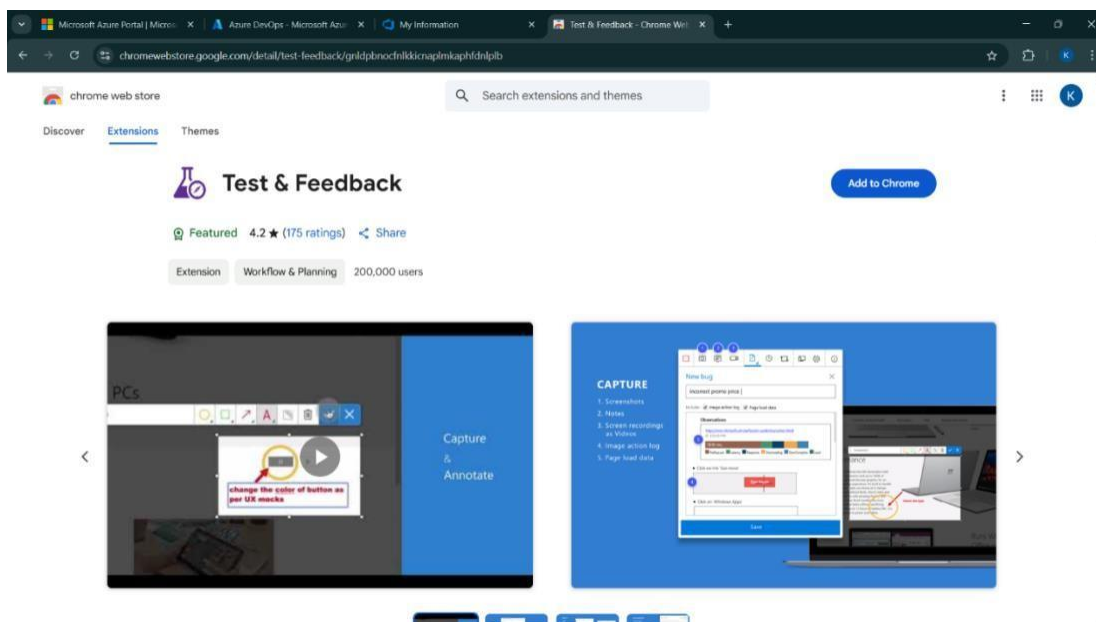
### Type: Error Path

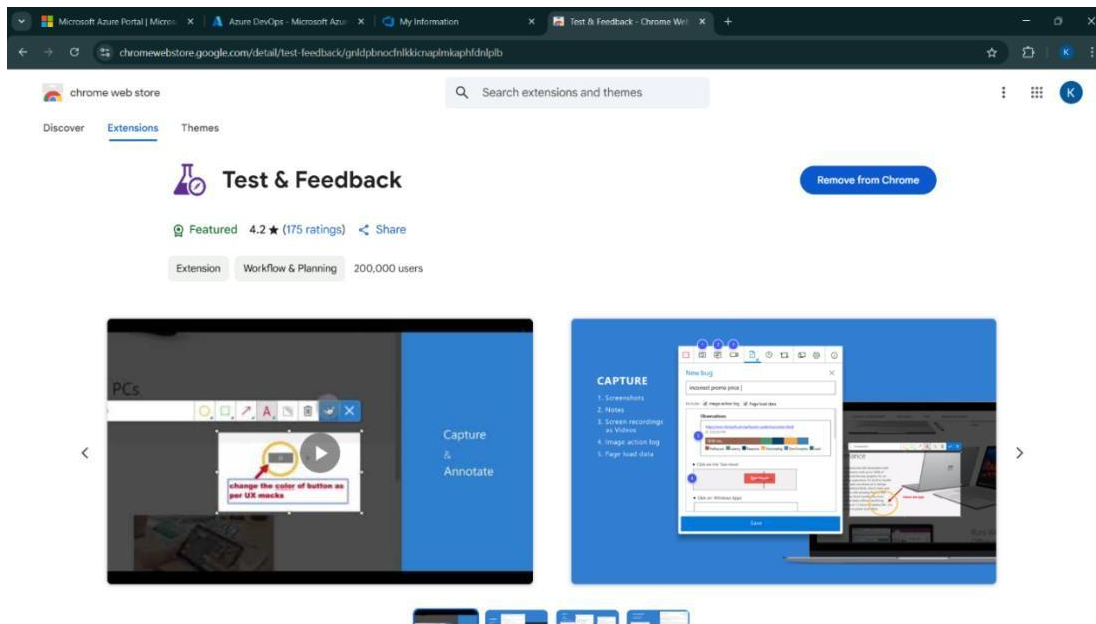
### Test Cases



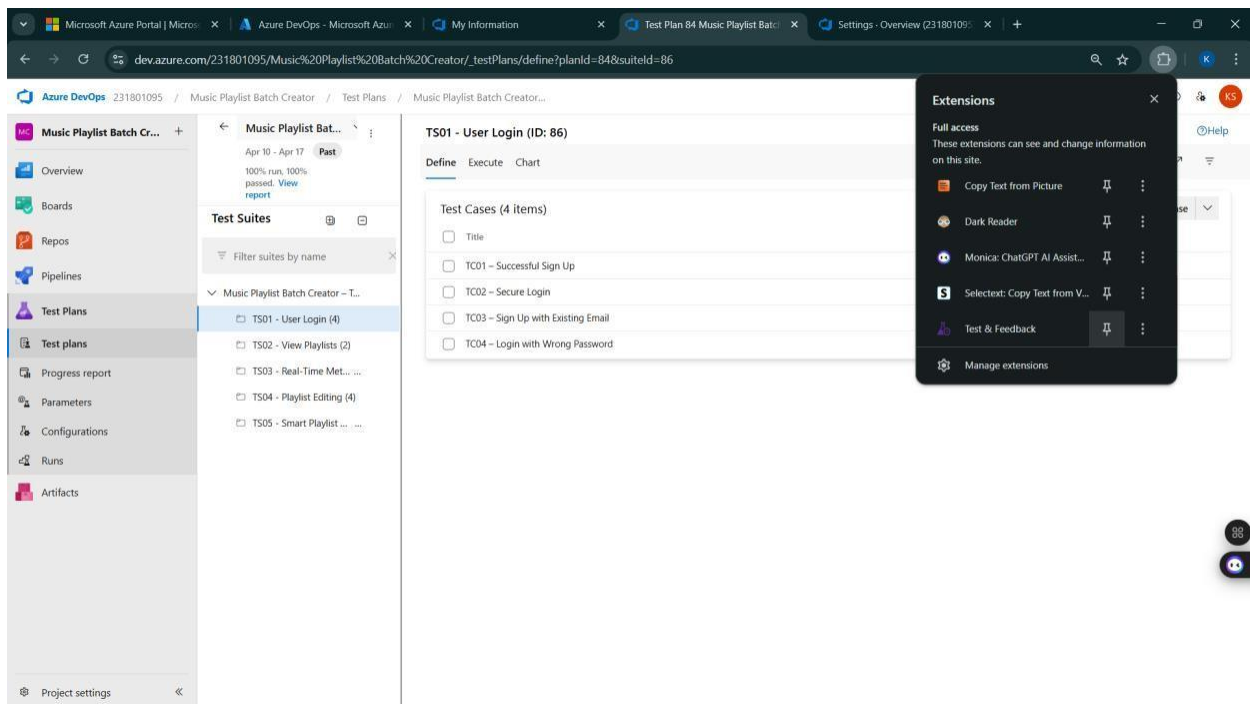


#### 4.Installation of test





Test and feedback  
Showing it as an extension



## 5. Running the test cases

The screenshot shows the Azure DevOps Test Plans interface. The left sidebar contains navigation options: Overview, Boards, Repos, Pipelines, Test Plans, Progress report, Parameters, Configurations, Runs, and Artifacts. The 'Test Plans' section is expanded, showing a list of test suites under 'Music Playlist Batch Creator - T...'. The selected suite is 'TS02 - View Playlists (2)'. The main area displays 'TS02 - View Playlists (ID: 87)' with tabs for Define, Execute, and Chart. The 'Execute' tab shows a table of test points:

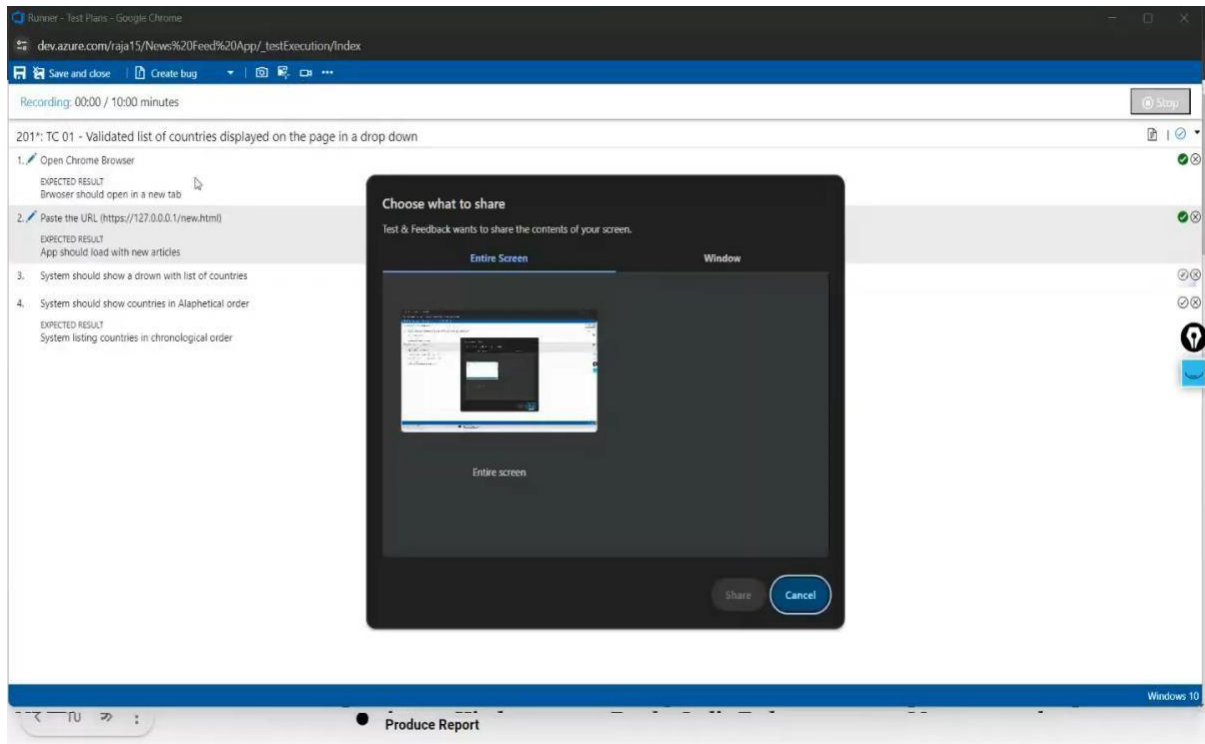
Title	Outcome	Order	Test Case Id	Configuration	Tester
TC05 - View Playlist Page	Passed	1	75	Windows 10	Malu karthick B...
TC06 - Playlist Loading Failure	Passed	2	77	Windows 10	Malu karthick B...

A context menu is open for the first test point, showing options: View execution history, Mark Outcome, Run, Reset test to active, Edit test case, Assign tester, and View test result. The 'Run' option is selected, and a sub-menu is open with options: Run for web application, Run for desktop application, and Run with options.

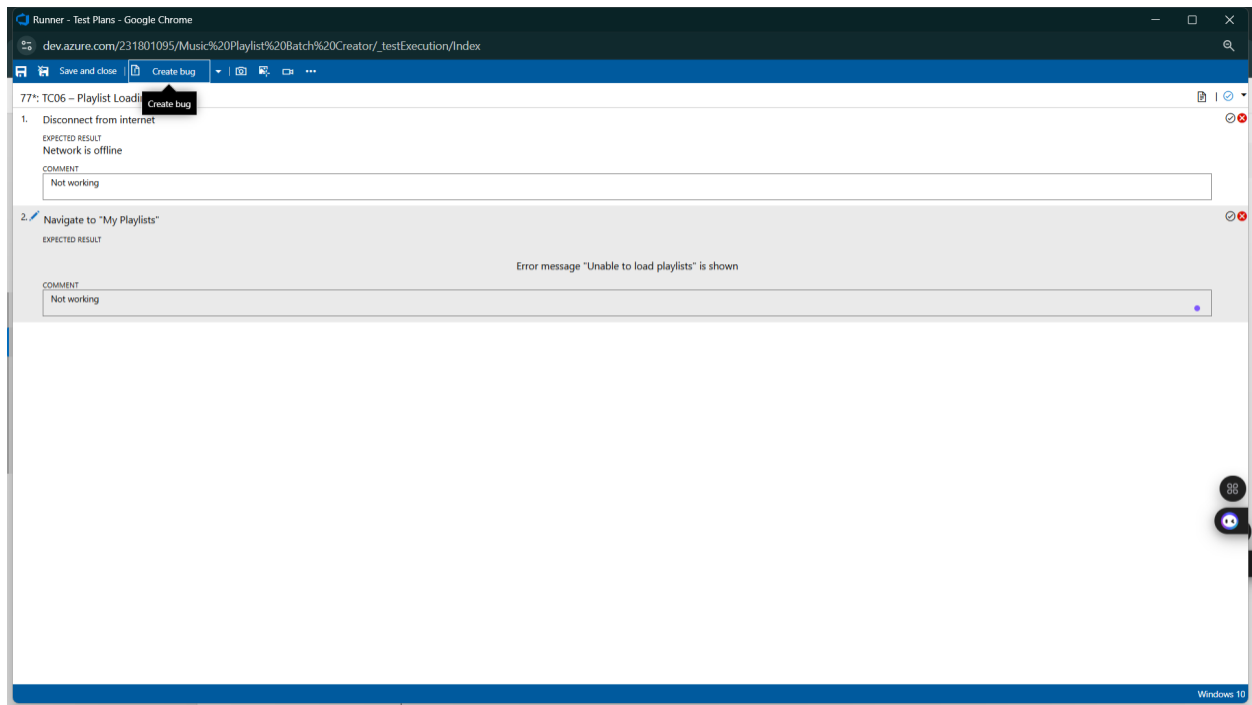
The screenshot shows the 'Runner - Test Plans - Google Chrome' window. The URL is 'dev.azure.com/231801095/Music%20Playlist%20Batch%20Creator/\_testExecution/Index'. The page displays the execution results for the test cases:

- 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

## 6. Recording the test case



## 7. Creating the bug





Runner - Test Plans - Google Chrome

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

77% TC06 - Playlist Loading Failure

1. Disconnect from internet

NEW BUG\*

TB01 - Playlist loading spinner keeps spinning indefinitely on poor network

Unassigned 0 comments Add tag TB01 - Playlist loading spinner keeps spinning indefinitely on poor network Save & Close

2. Navigation

Statg New Area Music Playlist Batch Creator

Reason New Iteration Music Playlist Batch Creator

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

Comments: Page Not loading

2. Failed 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

Found in Build

Microsoft Azure Port x Azure DevOps - Mic x My Information x Test Plan B4 Music P x Runs - Test Plans x Settings - Overview x Bug Report Playlist x

dev.azure.com/231801095/Music%20Playlist%20Batch%20Creator/\_testManagement/runs?\_a=resultSummary&runId=48&resultId=100000

Azure DevOps 231801095 / 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

Unassigned 0 comments Add tag Save & Close Follow

Statg New Area Music Playlist Batch Creator

Reason New Iteration Music Playlist Batch Creator

Updated by Karthick S. 8m ago

System Info

Found in Build

Integrated in Build

Browser - Name	Google Chrome 135
Browser - Language	en-IN
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/135.0.0.0 Safari/537.36
Operating system - Name	Windows NT 10.0; Win64; x64
Operating system - Architecture	x64_64
Operating system - Processor model	11th Gen Intel(R) Core(TM) i3-1115G4 @ 3.00GHz
Operating system - Number of processors	4
Memory - Available	814784512
Memory - Capacity	8216240128
Display - Pixels per inch (X axis)	120
Display - Pixels per inch (Y axis)	120
Display - Device pixel ratio	1.25

Discussion

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

Project settings

SystemInformation-2025-04-18T03:23:58.168Z.json 1K

## 8. 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 the 'Music Playlist Batch Creator' test plan with a list of test suites. The 'Test Suites' list includes 'TS01 - User Login (4)', 'TS02 - View Playlists (2)', 'TS03 - Real-Time Met...', 'TS04 - Playlist Editing (4)', and 'TS05 - Smart Playlist ...'. The 'Test Points' section shows two items: 'TC05 - View Playlist Page' (selected) and 'TC06 - Playlist Loading Failure'. The 'Test Case Results' table shows the following data:

Outcome	TimeStamp	Configuration	Run by	Tester	Test PI
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

Below the table, there is a link: [Open execution history for current test point](#).

## 9. Test report summary

The screenshot shows the Azure DevOps interface for a work item. 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 'News Feed App' work item with a list of work items. The 'Work Items' list includes 'BUG 203 - BG 01 - Countries Drop down Not Available on the page'. The 'Bug 203' work item details are shown, including the title, state (New), reason (New), and repro steps. 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 of countries.  
● Produce Report

The right sidebar contains sections for Planning, Deployment, and Development. The 'Planning' section shows the resolved reason, story points, priority, and severity. The 'Deployment' section shows a link to track releases. The 'Development' section shows a link to add a link.

- Assigning bug to the developer and changing state

Microsoft Azure Portal | Azure DevOps - Micro... | My Information | Test Plan 84 Music P... | Runs - Test Plans | Runs - Test Plans | Settings - Overview | +

dev.azure.com/231801095/Music%20Playlist%20Batch%20Creator/\_testManagement/runs?\_a=resultSummary&runId=48&resultId=100000

Azure DevOps 231801095 / Music Playlist Batch Creator / Test Plans / Runs

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

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

Karthick S 0 comments Add tag

Save & Close Follow Details (3)

Updated by Karthick S 33m ago

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

Comments: Page Not loading

2. Failed 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

Project settings

2. Navigate to "My Playlists"

## 10. Progress report

Microsoft Azure Portal | Micro... | Music - Microsoft Azure | My Information | Progress report - Test Plans | KARTHICK-231801079/Music P... | +

dev.azure.com/231801095/Music%20Playlist%20Batch%20Creator/\_testManagement/analytics/progressreport

Azure DevOps 231801095 / Music Playlist Batch Creator / Test Plans / Progress report

Music Playlist Batch Cr... +

Overview

Boards

Repos

Pipelines

Test Plans

Test plans

Progress report

Parameters

Configurations

Runs

Artifacts

Project settings

Progress report

Music Playlist Batch Creator - Test Plan

Test Suites Outcome Configuration Tester Priority Assigned To

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

15

10

5

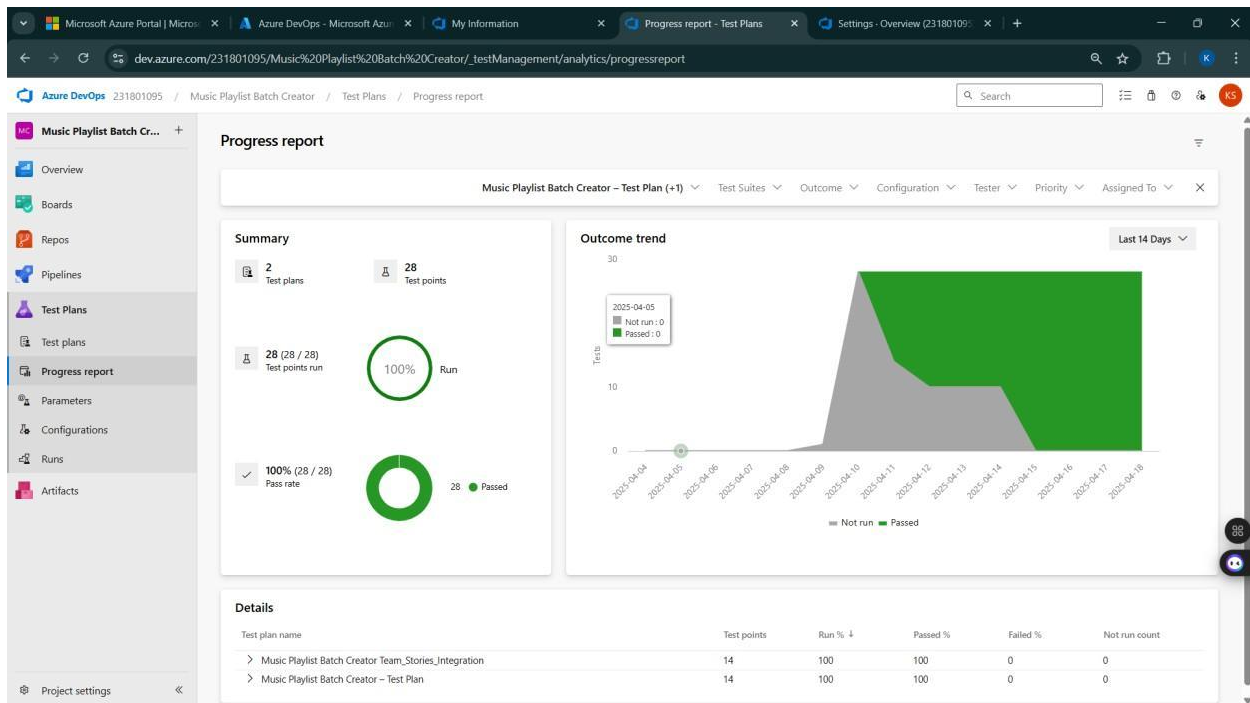
0

2025-04-01 2025-04-02 2025-04-03 2025-04-04 2025-04-05 2025-04-06 2025-04-07 2025-04-08 2025-04-09 2025-04-10 2025-04-11 2025-04-12 2025-04-13 2025-04-14 2025-04-15

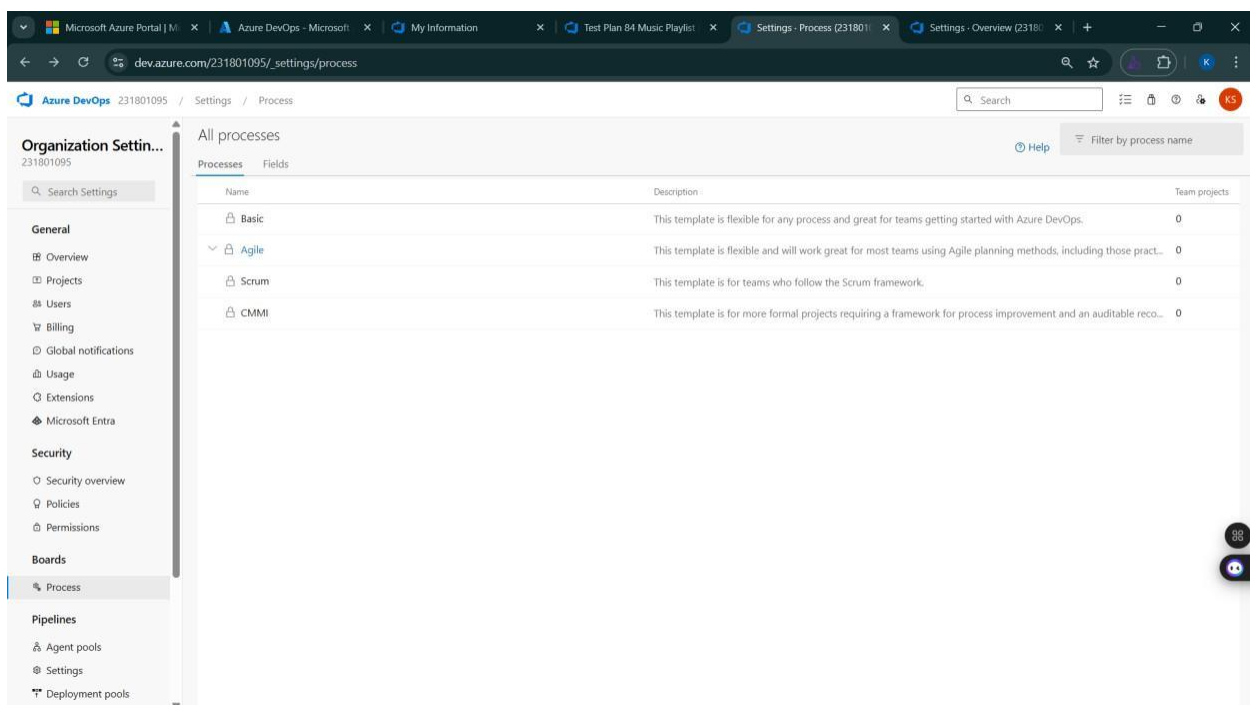
Not run Passed

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



## 11. Changing the test template



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 of process.	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
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- Usage
- Extensions
- Microsoft Entra

Security

- Security overview
- Policies
- Permissions

Boards

- Process

Pipelines

- Agent pools
- Settings
- Deployment pools

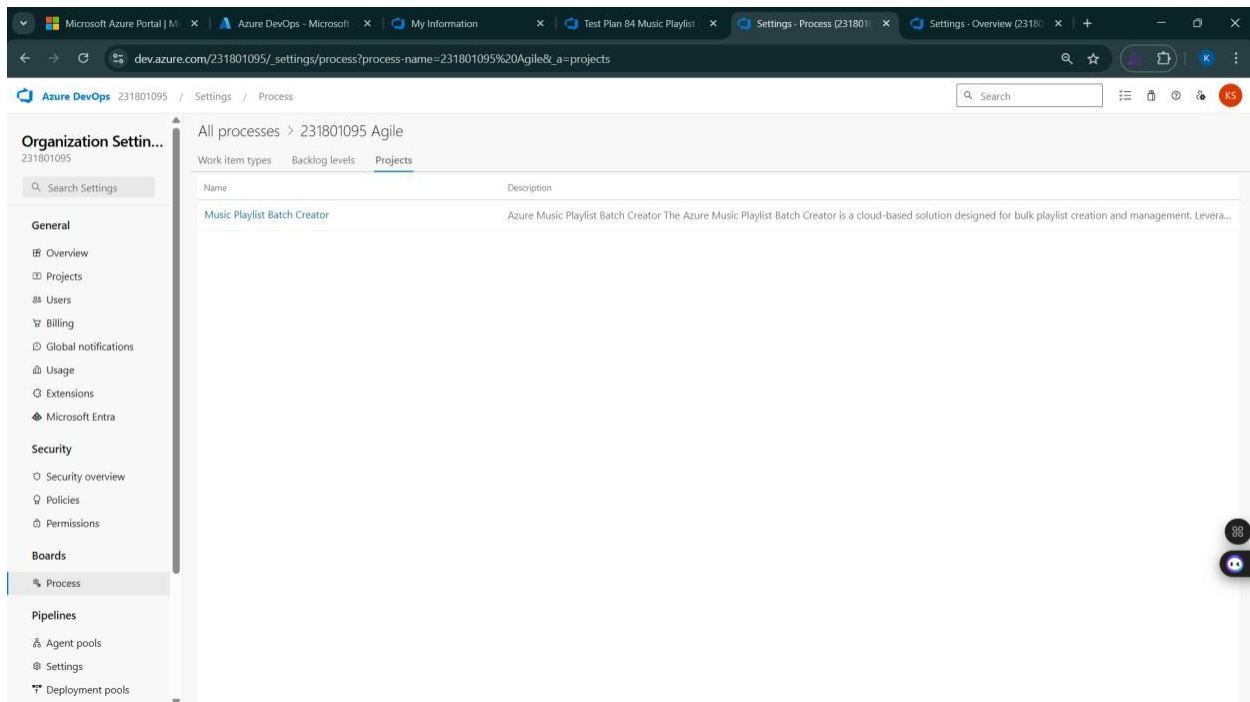
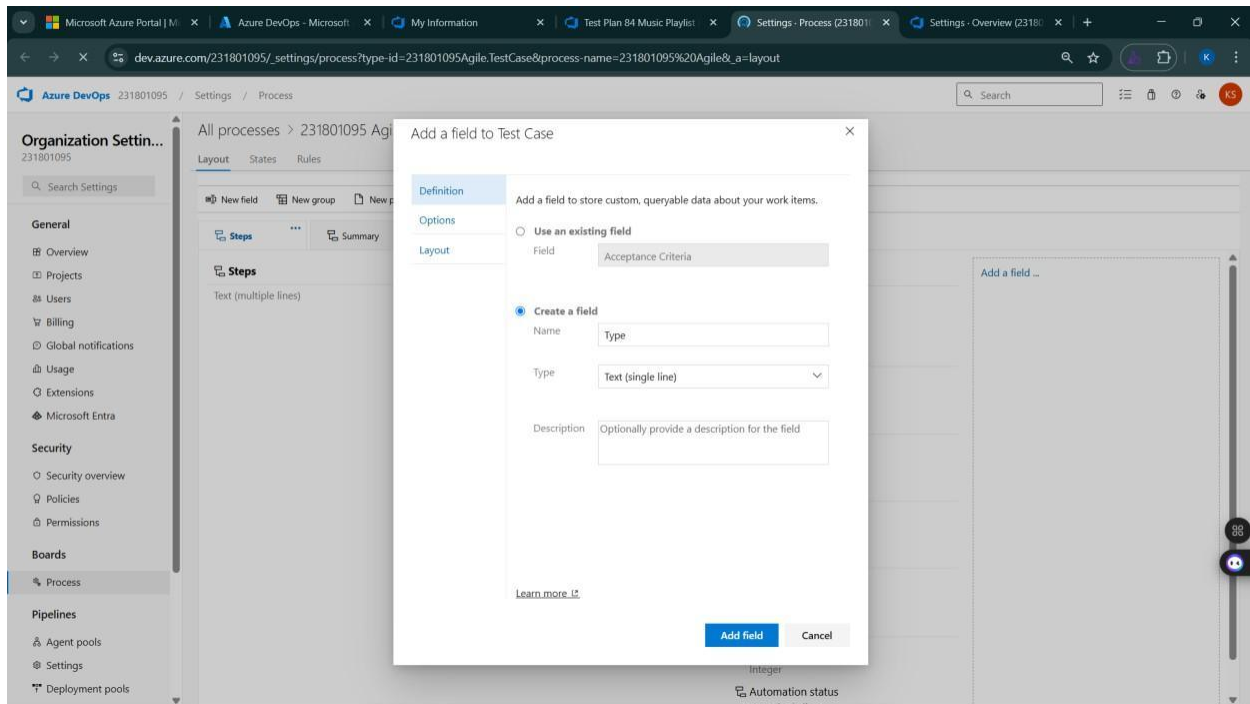
All processes

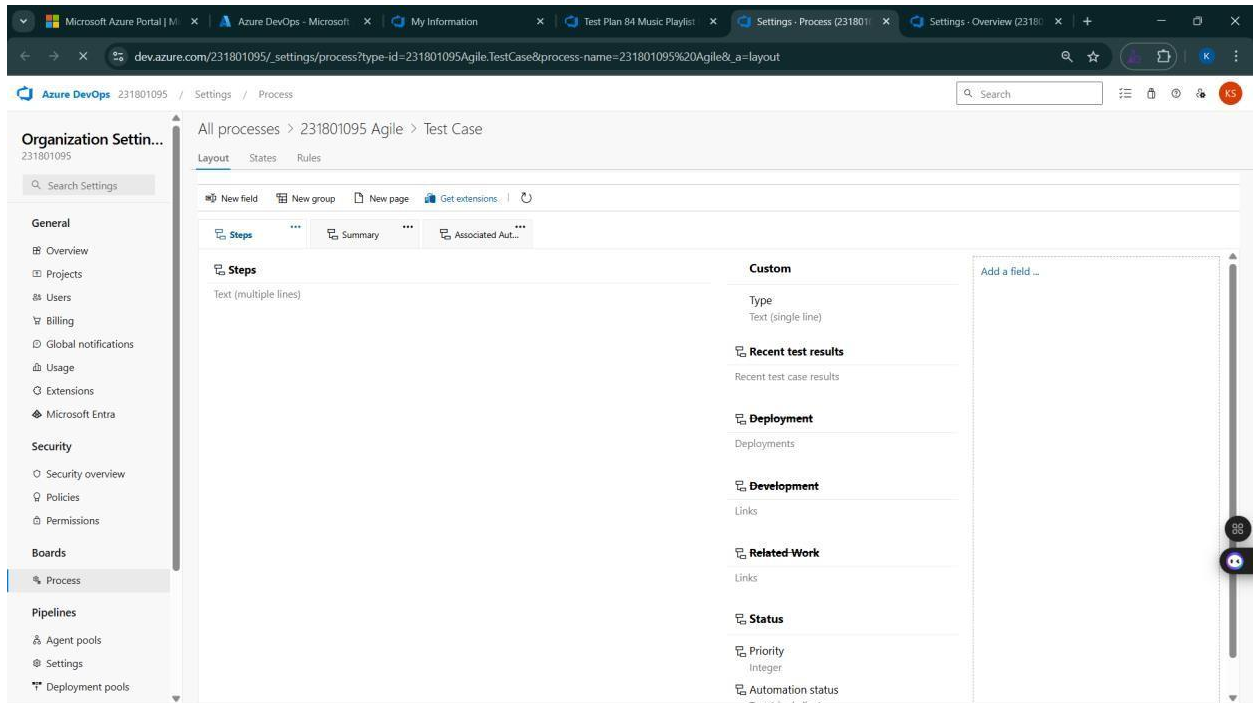
Processes Fields

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 of process.	0

## 12. 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



<b>EXP NO: 9</b>	<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
  - 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.

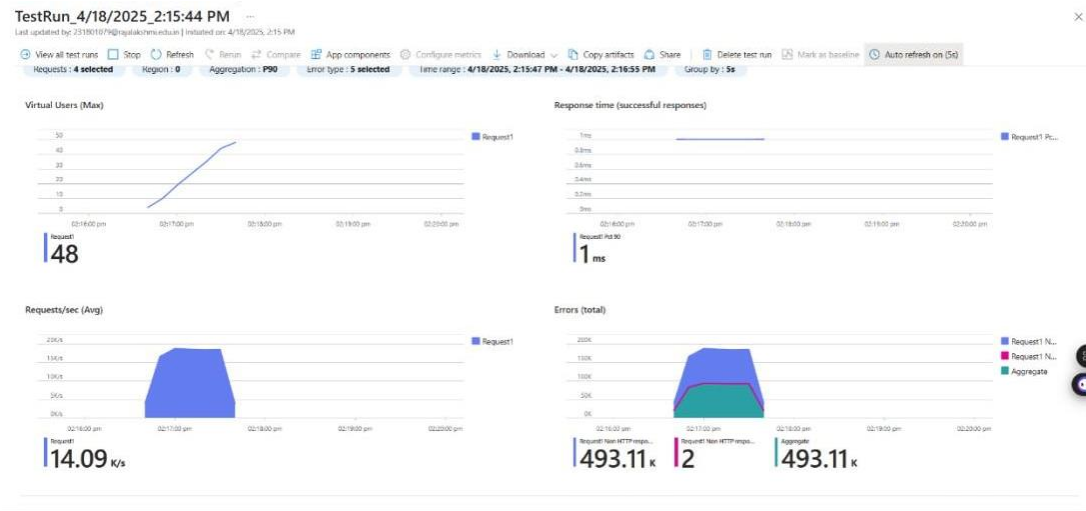
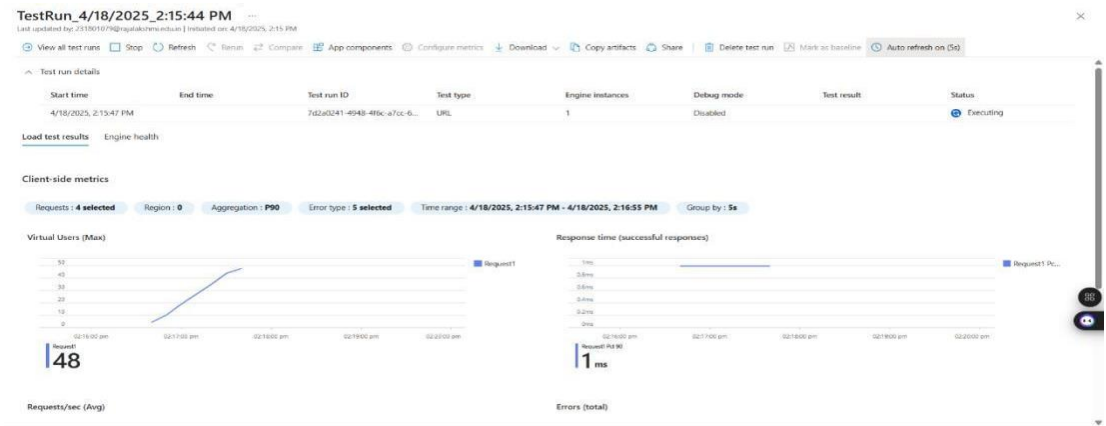
**Steps to Create and Run a Load Test:**

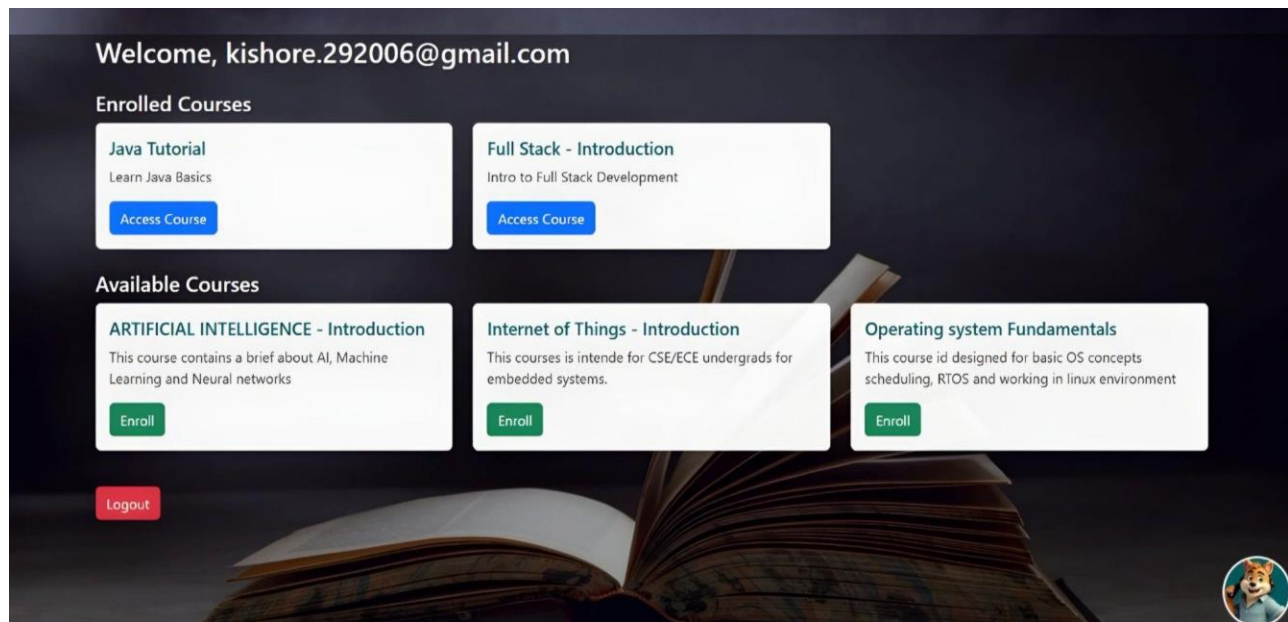
Once your resource is ready:

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



Load Testing





**Result:**

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

**EXP NO: 10**

## **GITHUB: PROJECT STRUCTURE & NAMING CONVENTIONS**

### **Aim:**

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

### **GitHub Project Structure**

The screenshot displays the GitHub interface for the 'Education-platform' repository. The main content area shows a file tree with the following structure:

File/Folder	Commit Message	Commit Time
static/images	frontend-design	1 hour ago
templates	frontend	1 hour ago
Procfile	backend	1 hour ago
README.md	Initial commit	8 hours ago
app.py	backend	1 hour ago
requirements.txt	backend	1 hour ago
vercel.json	backend	1 hour ago

The right sidebar provides additional repository information:

- About:** No description, website, or topics provided.
- Readme:** Link to the README file.
- Activity:** Link to the repository activity.
- Stars:** 0 stars.
- Watching:** 1 watching.
- Forks:** 0 forks.
- Releases:** No releases published. Link to 'Create a new release'.
- Packages:** No packages published. Link to 'Publish your first package'.
- Languages:** A bar chart showing the distribution of code languages.

### **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.