

**EXP NO: 1**

## **AZURE DEVOPS ENVIRONMENT SETUP**

### **Aim:**

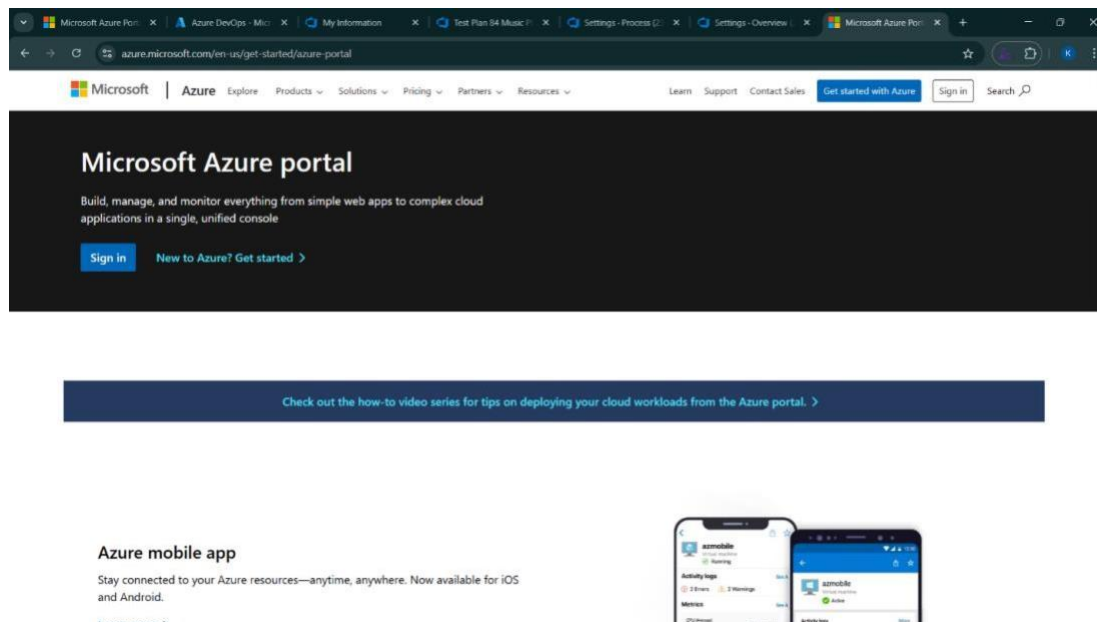
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

### **INSTALLATION**

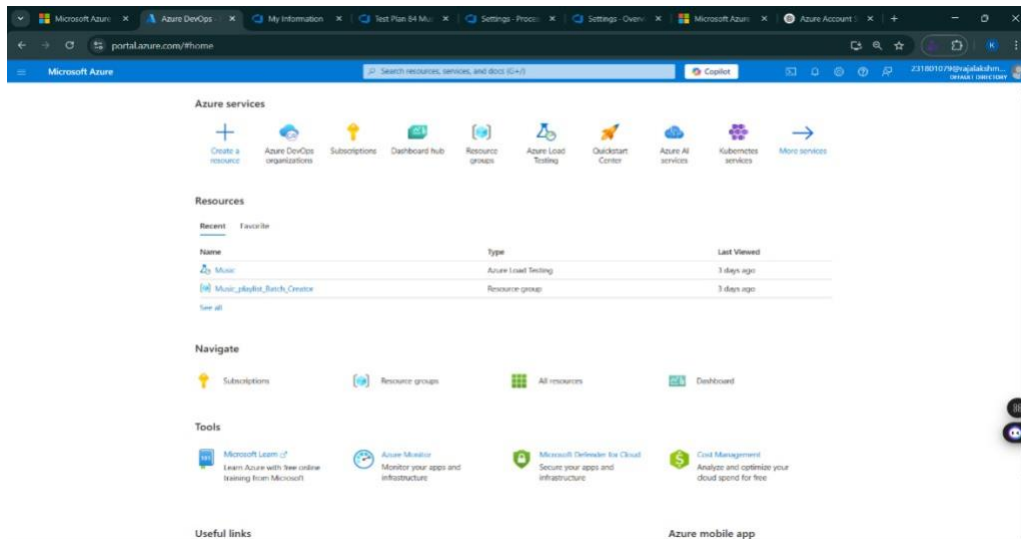
1. Open your web browser and go to the Azure website: <https://azure.microsoft.com/en-us/get-started/azure-portal>.

Sign in using your Microsoft account credentials.

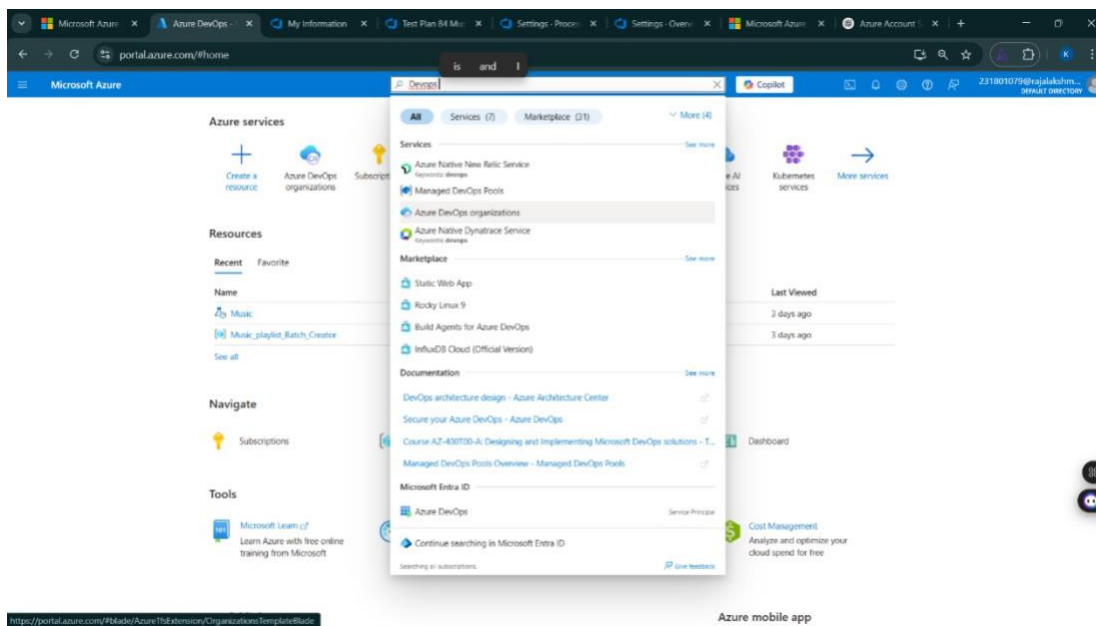
If you don't have a Microsoft account, you can create one here: <https://signup.live.com/?lic=1>



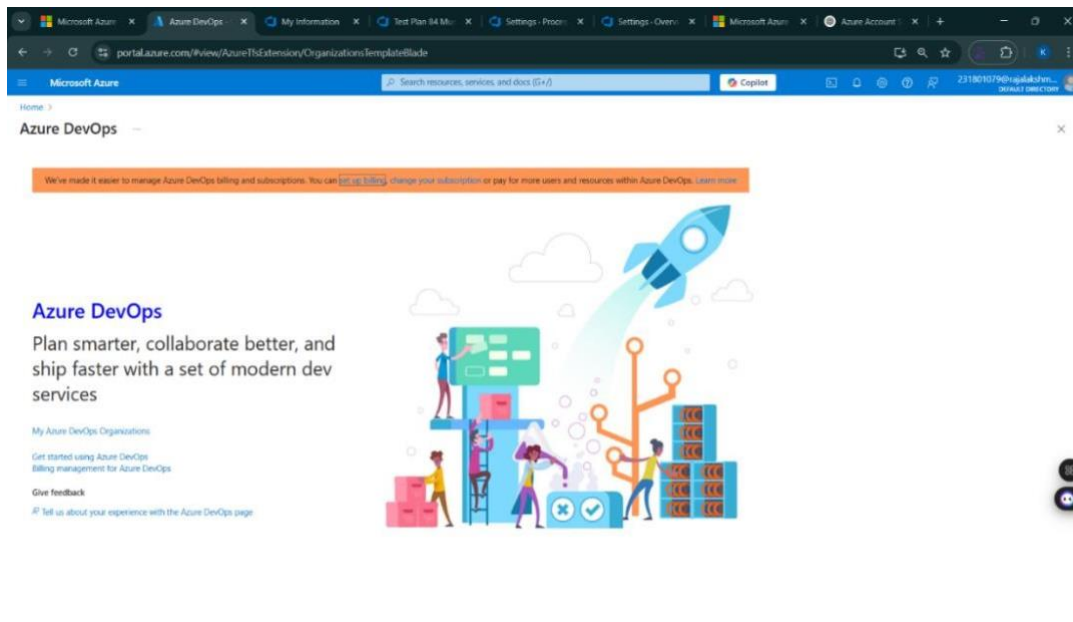
## 2. Azure home page



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.

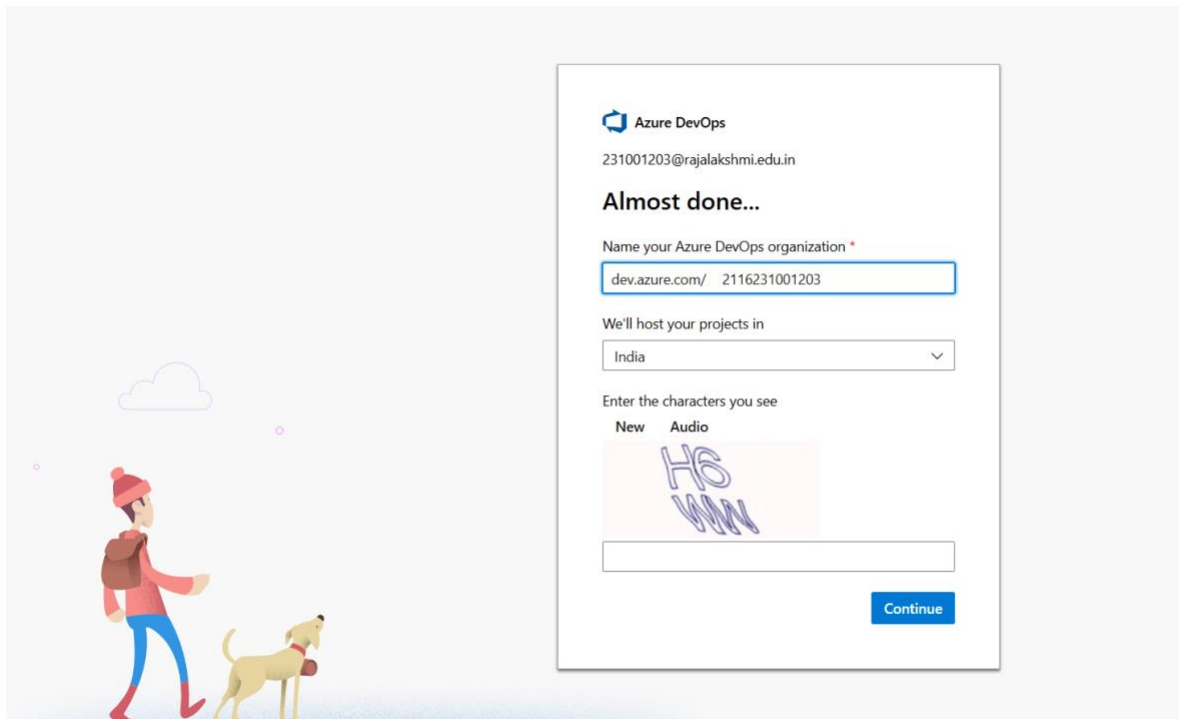
EXP NO: 2

## 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 \*

Batch Data Analysis and Visualizations

Description

### Visibility



Public

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



Private

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



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

^ Advanced

Version control ?

Git



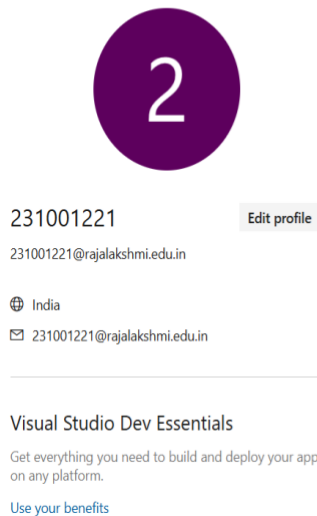
Work item process ?

Agile



Cancel

Create



231001221

231001221@rajalakshmi.edu.in

India

231001221@rajalakshmi.edu.in

Visual Studio Dev Essentials

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

[Use your benefits](#)

[Edit profile](#)

## Azure DevOps Organizations

[Create new organization](#)

dev.azure.com/231001221 (Owner)

### Projects

BatchData\_Processing

batch

[New project](#)

### Actions

[Open in Visual Studio](#)

> dev.azure.com/231001203 (Member)

- 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

The screenshot displays the Azure DevOps project dashboard for a project named "Batch Data Analysis and Visualization". The interface includes a left-hand navigation pane with options like Overview, Summary, Dashboards, Wiki, Boards, Repos, Pipelines, Test Plans, and Artifacts. The main content area is titled "About this project" and contains descriptive text about the project's purpose, supported data formats, and key features. On the right, there are two summary cards: "Project stats" showing zero work items and "Members" listing five team members with their avatars. The top of the page shows the Azure DevOps logo, the project name, and a search bar.

**Azure DevOps** 231001203 / Batch Data Analysis and Vis... / Overview / Summary

Search

**BV Batch Data Analysis and Visualization** Private Invite

### About this project

Like 0

The Batch Data Analysis and Visualization project is designed to streamline the process of uploading, cleaning, transforming, analyzing, and visualizing large batches of data. This tool serves both data analysts and business intelligence teams, allowing them to efficiently manage data, gain insights, and create reports. The project also includes user management and data security to ensure that sensitive information is handled properly.

The system supports multiple data formats (CSV, JSON, Excel) and is designed to work with large datasets. Users can upload, clean, process, visualize, and export data in a structured and secure manner, enabling better decision-making and deeper insights.

**Key Features and Functionalities**

- 1. Data Upload and Processing**  
Data Upload: The system allows users to upload batch data in multiple formats (CSV, JSON, Excel). This flexibility ensures the tool can handle various input sources commonly used in data workflows.
- Validation:** Upon upload, the system checks the format of the files, ensuring that only supported formats are processed.
- File Storage:** Once validated, the uploaded files are stored securely, ensuring that users can revisit them or use them for further processing.

- 2. Data Cleaning and Preprocessing**  
Handling Missing Data: The system automatically detects missing values and provides options to fill, drop, or notify users.
- Duplicate Removal:** Any duplicate entries in the data are automatically detected and removed to ensure data accuracy.

### Project stats

Period: Last 7 days

**Boards**

0 Work items created

0 Work items resolved

### Members 5

2 SK 2 S 2



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.

Azure DevOps 231001203 / Batch Data Analysis and Vis... / Boards / Backlogs

Batch Data Analysis and Visualization Team

New Work Item View as Board Column Options

Backlog Analytics

Order	ID	Title	Assigned To	State	Tags
1	13	Column Operations		To Do	
	14	Change Data Types of Columns		To Do	
	15	Apply Bulk Transformations		To Do	
2	11	Cleaning Engine		To Do	
	12	Remove Duplicate Records		To Do	
+	3	Handle Large File Uploads		To Do	
	9	Manage Uploaded Files		To Do	
	10	Upload via Drag-and-Drop		To Do	

Planning

Drag and drop work items to include them in a sprint.

Batch Data Analysis and Visualization T

development team 5/1/2025 - 5/7/2025

Planned Effort: 0 5 working days

3 5

Sprint 1

No work scheduled yet

+ New Sprint



Sign out



**231001221@rajala...**

231001221@rajalakshmi.edu.in

[My Microsoft account](#)

[Switch directory](#)

...



Sign in with a different account

**Result:**

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

EXP NO: 3

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

### Aim:

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

### Create Epic, Features, User Stories, Task

The screenshot shows the Azure DevOps interface for a project named 'Batch Data Analysis and Visualization Team'. The left sidebar contains navigation links: Overview, Boards, Backlogs (selected), Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The main area displays the 'Backlog' tab with a table of work items. The table has columns for Order, ID, Title, Assigned To, State, and Tags. The work items are grouped into three epics: 'Column Operations' (items 13-15), 'Cleaning Engine' (items 11-12), and 'Handle Large File Uploads' (items 8-10). All items are in the 'To Do' state. On the right, there is a 'Planning' panel with a 'Batch Data Analysis and Visualization T' bar chart, a 'development team' sprint summary for 5/1/2025 - 5/7/2025, and a 'Sprint 1' section indicating 'No work scheduled yet'.

Order	ID	Title	Assigned To	State	Tags
1	13	Column Operations		To Do	
	14	Change Data Types of Columns		To Do	
	15	Apply Bulk Transformations		To Do	
2	11	Cleaning Engine		To Do	
	12	Remove Duplicate Records		To Do	
3	8	Handle Large File Uploads		To Do	
	9	Manage Uploaded Files		To Do	
	10	Upload via Drag-and-Drop		To Do	

### 1. Fill in Epics

The screenshot shows the Azure DevOps interface for a new work item. The left sidebar is the same as the previous screenshot. The main area displays the 'Work Items' tab with a 'NEW EPIC' button. The work item title is 'Manage uploaded file'. Below the title, there are fields for 'State' (To Do), 'Reason' (Added to backlog), 'Area' (Batch Data Analysis and Visualization), and 'Iteration' (Batch Data Analysis and Visualization/development team). The 'Description' field is empty with a placeholder 'Click to add Description.'. The 'Planning' section shows 'Priority' 2, 'Start Date' (Select a date...), and 'Target Date' (Select a date...). The 'Related Work' section has an 'Add link' dropdown with the option 'Add an existing work item as a parent'. A comment box at the bottom says 'Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request.' with a 'switch to Markdown editor' link.

2116231001221

CS23432

## 2.Fill in Features

**Azure DevOps** 231001203 / Batch Data Analysis and Vis... / Boards / Work items

Search

**Batch Data Analysis an...** +

Overview

Boards

Work items

Boards

Backlogs

Sprints

Queries

Delivery Plans

Analytics views

Repos

Pipelines

Test Plans

Artifacts

Project settings

Work Items | Back to Work Items

NEW EPIC \*

Manage uploaded file

No one selected 0 Comments Add Tag Save

State To Do Area Batch Data Analysis and Visualization

Reason Added to backlog Iteration Batch Data Analysis and Visualization\development team Details 0 0

**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.

switch to Markdown editor

**Planning**

Priority 2

Start Date Select a date...

Target Date Select a date...

**Related Work**

Add link

Add an existing work item as a parent

## 3.Fill in User Story Details

**Azure DevOps** 231001203 / Batch Data Analysis and Vis... / Boards / Work items

Search

**Batch Data Analysis an...** +

Overview

Boards

Work items

Boards

Backlogs

Sprints

Queries

Delivery Plans

Analytics views

Repos

Pipelines

Test Plans

Artifacts

Project settings

Work Items | Back to Work Items

NEW EPIC \*

Manage uploaded file

No one selected 0 Comments Add Tag Save

State To Do Area Batch Data Analysis and Visualization

Reason Added to backlog Iteration Batch Data Analysis and Visualization\development team Details 0 0

**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.

switch to Markdown editor

**Planning**

Priority 2

Start Date Select a date...

Target Date Select a date...

**Related Work**

Add link

Add an existing work item as a parent

**Result:**

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

EXP NO: 4

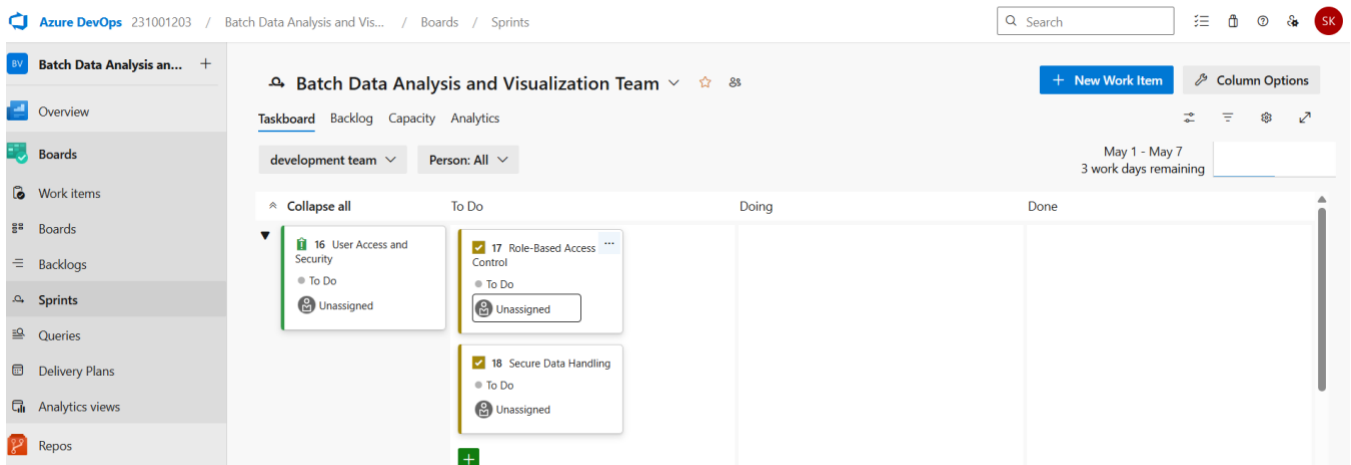
# SPRINT PLANNING

## Aim:

To assign user story to specific sprint for the Music Playlist Batch Creator Project.

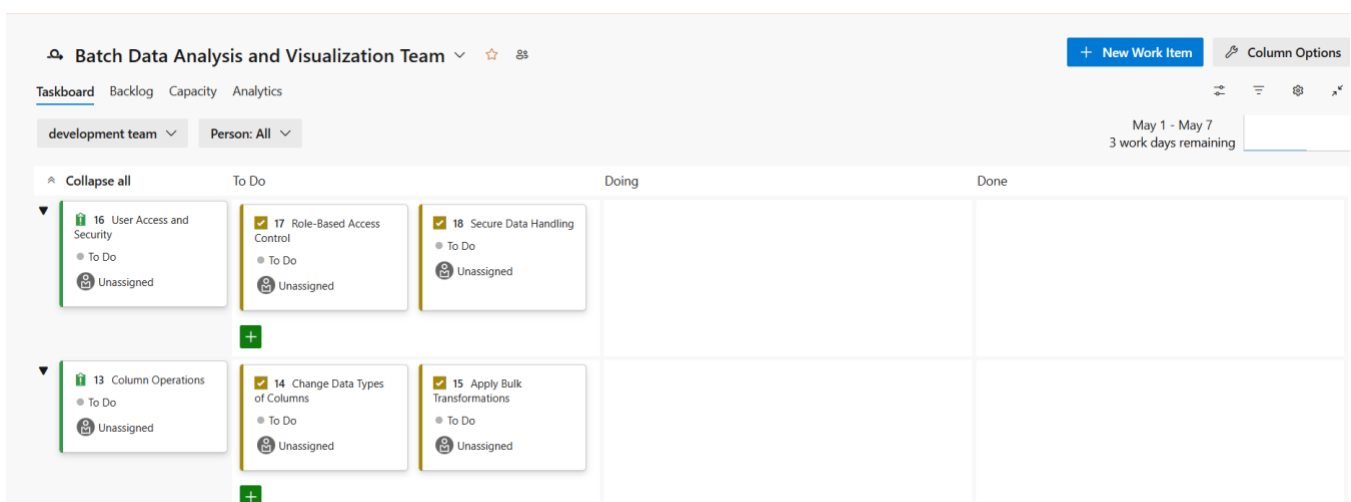
## Sprint Planning

### Sprint 1



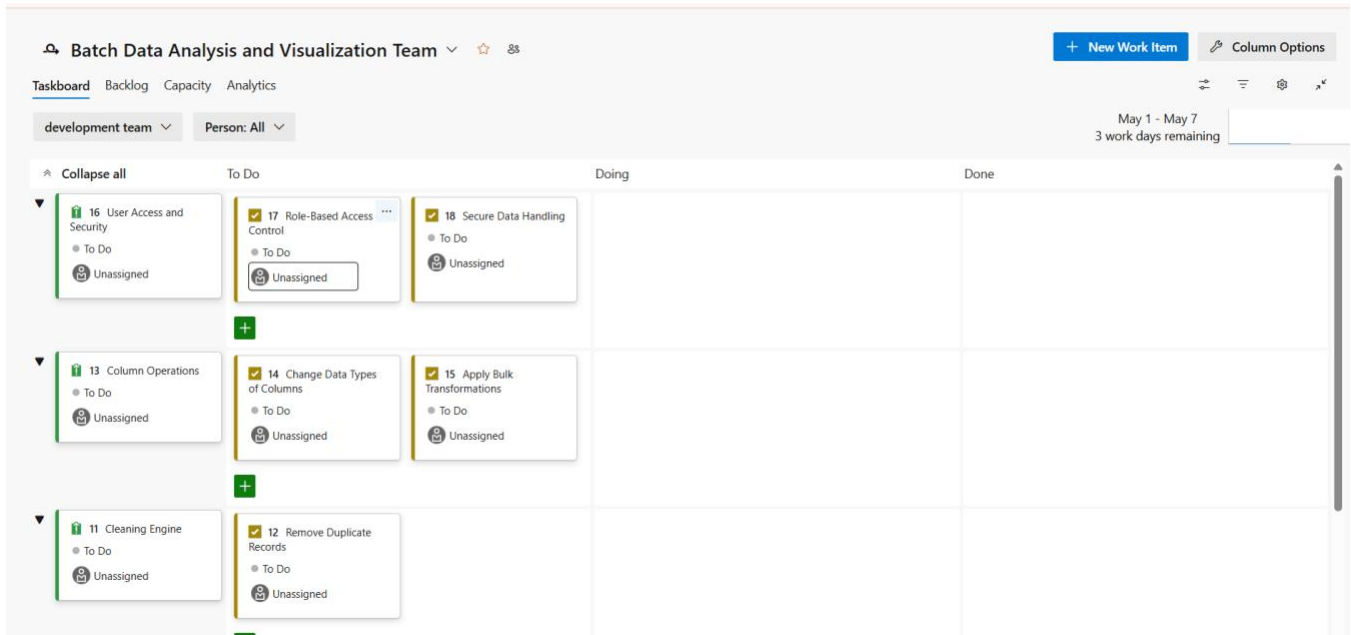
The screenshot shows the Azure DevOps interface for a team named "Batch Data Analysis and Visualization Team". The board is set for the sprint "May 1 - May 7" with "3 work days remaining". The board is divided into four columns: "To Do", "Doing", and "Done". The "To Do" column contains three work items: "16 User Access and Security", "17 Role-Based Access Control", and "18 Secure Data Handling". All work items are currently assigned to "Unassigned". The "Doing" and "Done" columns are empty.

### Sprint 2

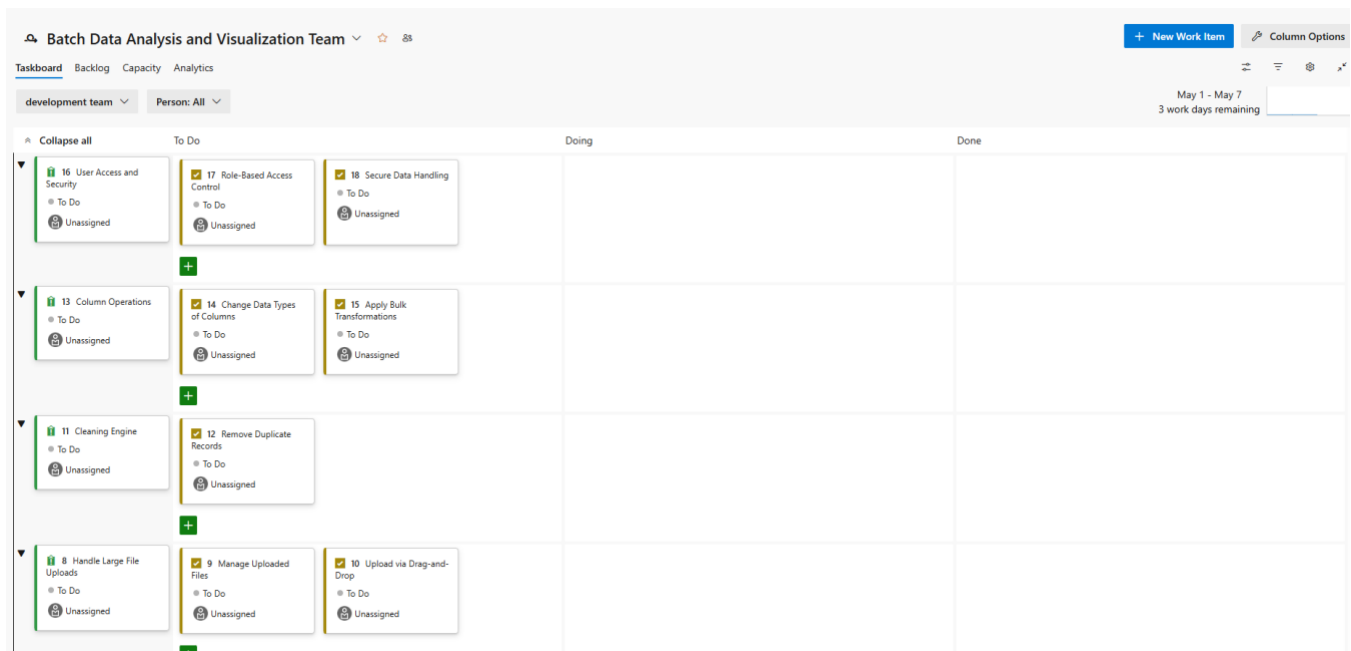


The screenshot shows the Azure DevOps interface for the same team and sprint. The board is set for the sprint "May 1 - May 7" with "3 work days remaining". The board is divided into four columns: "To Do", "Doing", and "Done". The "To Do" column contains five work items: "16 User Access and Security", "17 Role-Based Access Control", "18 Secure Data Handling", "13 Column Operations", and "14 Change Data Types of Columns". All work items are currently assigned to "Unassigned". The "Doing" and "Done" columns are empty.

## Sprint 3



## Sprint 4



**Result:**

The Sprints are created for the Music Playlist Batch Creator Project.



**EXP NO: 5**

# POKER ESTIMATION

## Aim:

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

## Poker Estimation

The screenshot displays the Azure DevOps interface for a project named 'Batch Data Analysis and Visualization'. The left sidebar shows the navigation menu with options like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The main area shows a 'Work Items' view with a 'NEW EPIC' badge. The selected work item is titled 'User Access and Security' and is in the 'To Do' state. It has a reason of 'Added to backlog' and is assigned to the 'Batch Data Analysis and Visualization/development team'. The work item details include a description field (currently empty), a planning section with priority '2', start and target dates, and a related work section with a link to 'Add an existing work item as a parent'. A comment box is visible at the bottom of the work item details.

## Result:

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

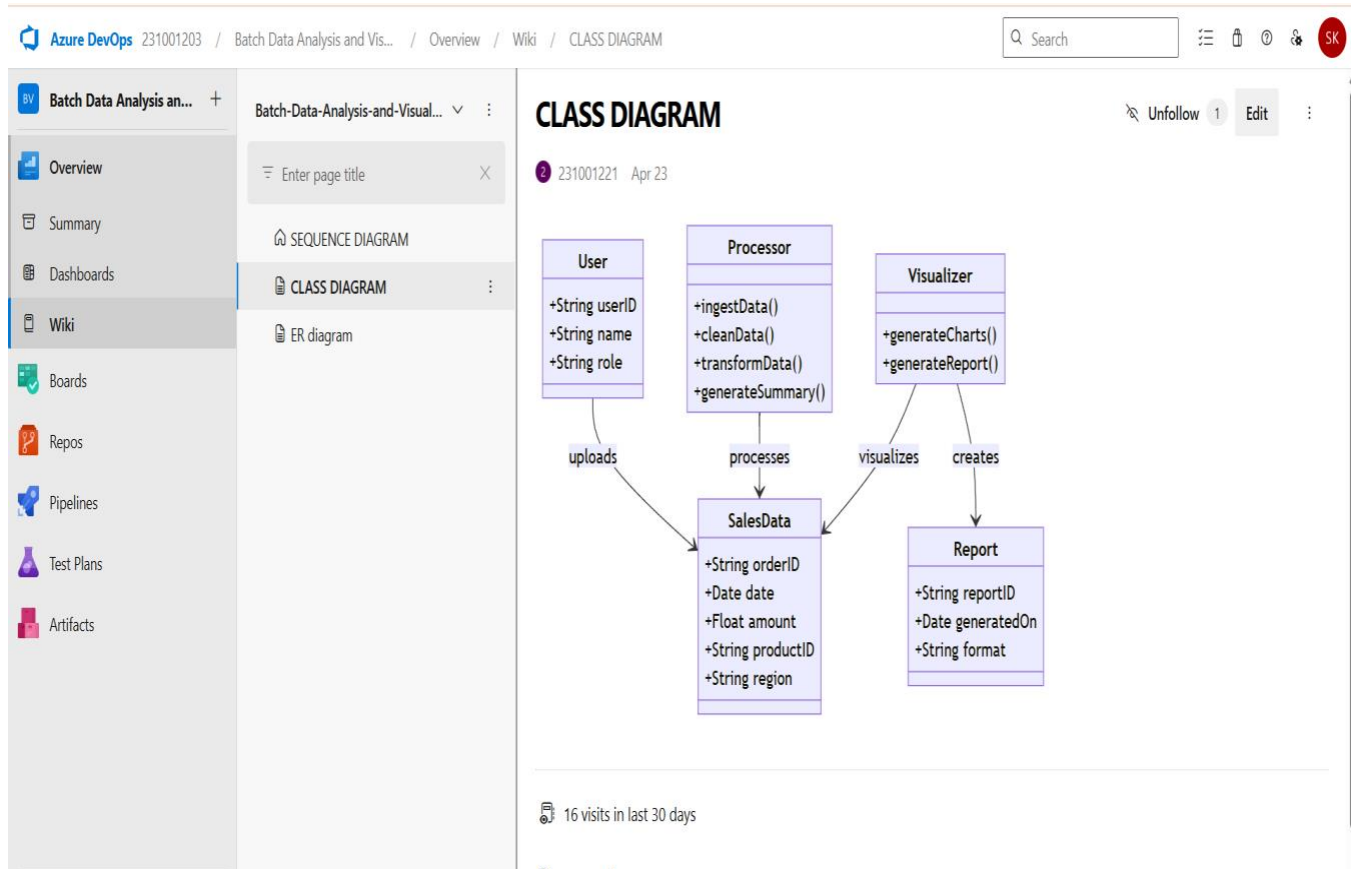
EXP NO: 6

## DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE

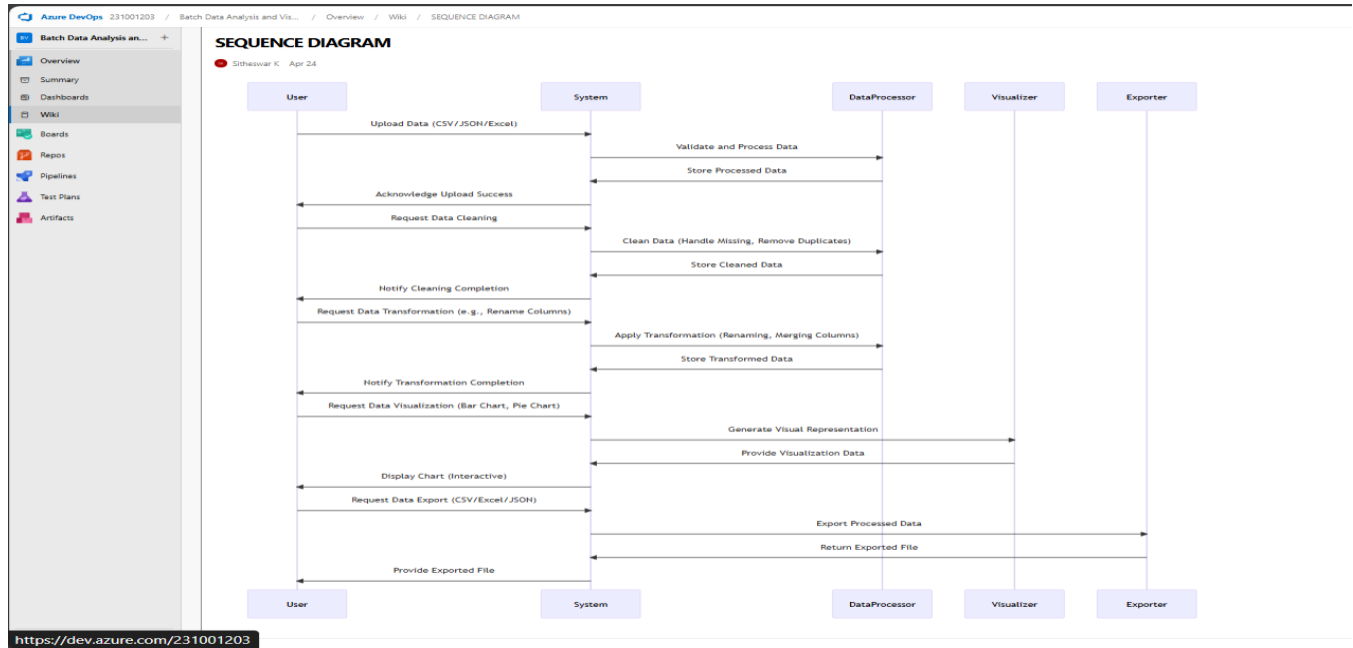
### Aim:

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.

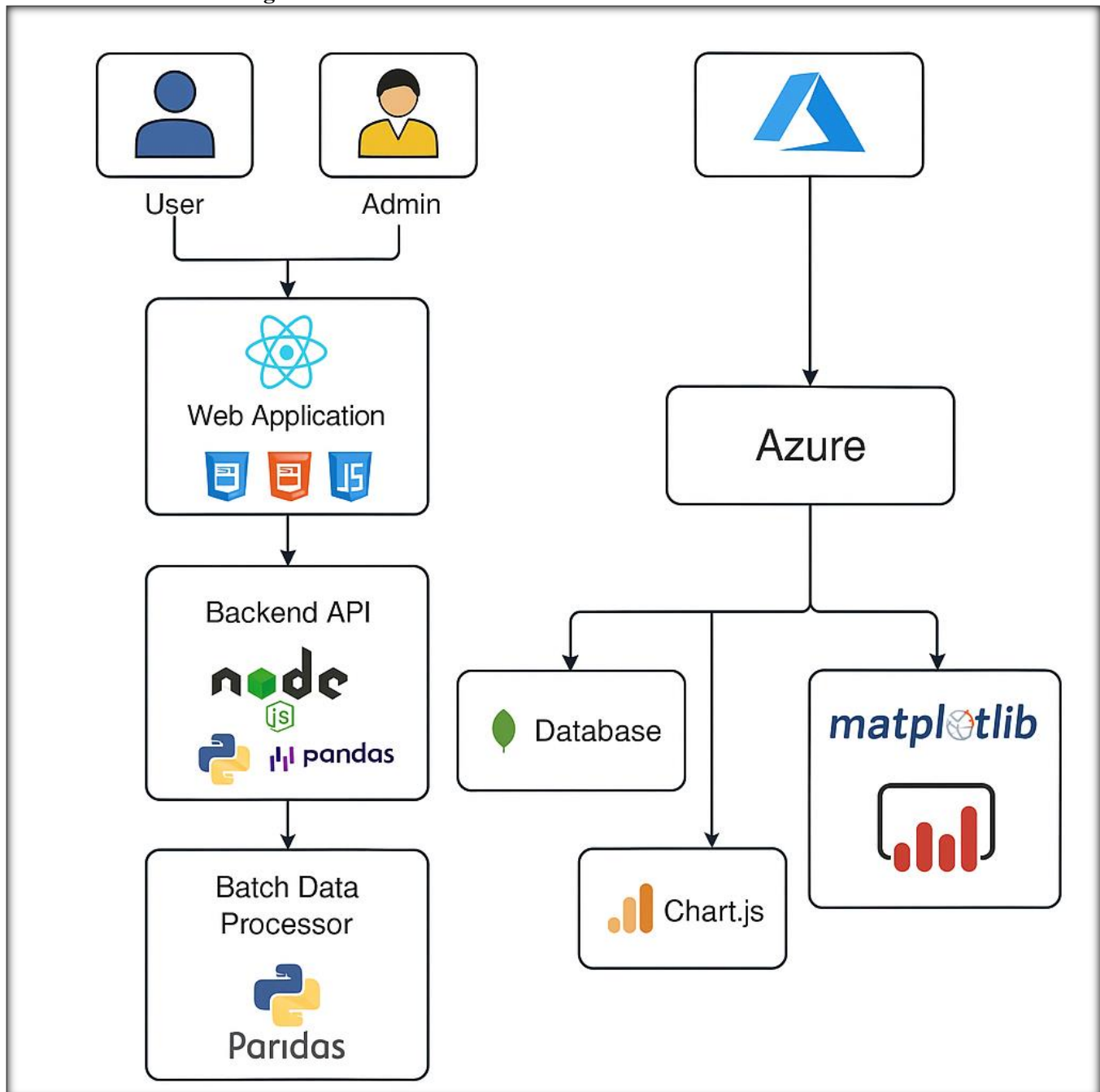
EXP NO: 7

## DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE

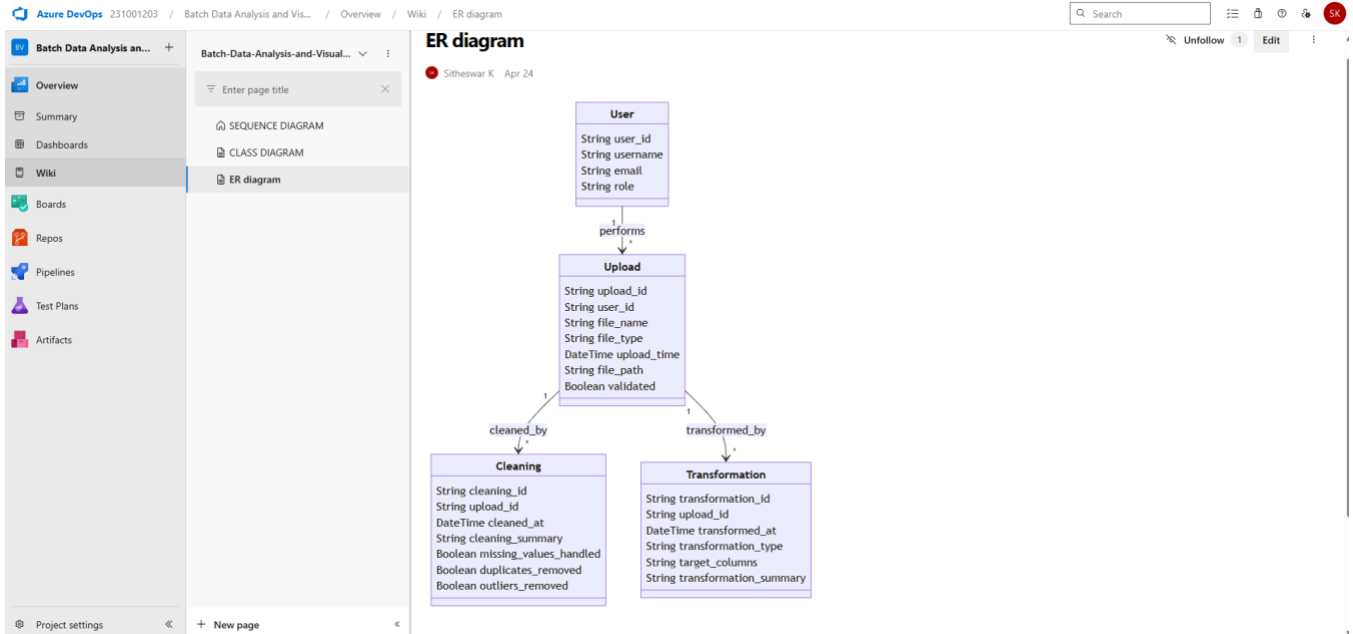
**Aim:**

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

**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**

#### **1.New test plan**

Azure DevOps 231001203 / Batch Data Analysis and Vis... / Test Plans

Search

Batch Data Analysis an... +

Overview

Boards

Repos

Pipelines

**Test Plans**

Test plans

Progress report

Parameters

Configurations

Runs

Artifacts

Project settings <<

### New Test Plan

Name \*

Batch Data Analysis and Visualization - Test Plan

Area Path \*

Batch Data Analysis and Visualization

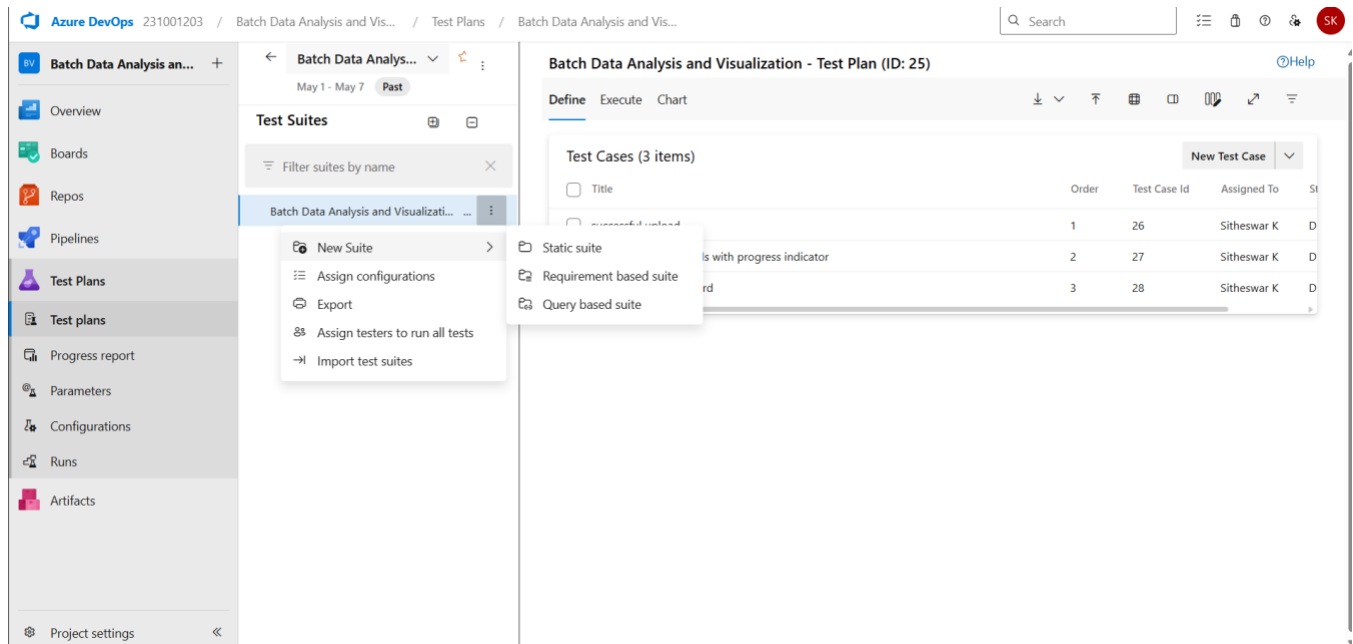
Iteration \*

Batch Data Analysis and Visualization\development team 5/1/2025 - 5/7/2025

Create Cancel



## 2. Test suite



### USER STORIES

- **US01 (ID: 201):** As a user, I want to upload data files (CSV, JSON, etc.) for analysis.
- **US02 (ID: 202):** As a user, I want to view the uploaded data in tabular format.
- **US03 (ID: 203):** As a user, I want to visualize insights (charts, graphs) using various parameters.
- **US04 (ID: 204):** As an admin, I want to manage users and access controls.
- **US05 (ID: 205):** As a user, I want to download the analyzed data or charts

### Test Suite: TS01 - Data Upload & Parsing (ID: 301)

#### TC01 – Successful CSV Upload

- **Action:**
  - Log in.
  - Go to upload section.
  - Select a valid CSV file and upload.
- **Expected:**
  - File uploads successfully, and data preview is shown.
- **Type: Happy Path**

#### TC02 – Upload with Unsupported Format

- **Action:**
  - Try uploading an XML file.
- **Expected:**
  - Error: "Unsupported file format."
- **Type: Error Path**

## **Test Suite: TS02 - Data Viewing (ID: 302)**

### **TC03 – Display Uploaded Data**

- **Action:**
  - Upload a valid CSV file.
  - Click “View Data”.
- **Expected:**
  - Table displays with correct rows and columns.
- **Type: Happy Path**

### **TC04 – View Without Upload**

- **Action:**
  - Directly click “View Data” without any upload.
- **Expected:**
  - Error: "No data available. Please upload a file."
- **Type: Error Path**

## **Test Suite: TS03 - Visualization (ID: 303)**

### **TC05 – Generate Chart from Data**

- **Action:**
  - Upload data.
  - Select chart type (e.g., bar).
  - Select fields and click "Generate".
- **Expected:**
  - Chart displays based on selected fields.
- **Type: Happy Path**

### **TC06 – Chart Generation with Missing Input**

- **Action:**
  - Upload data but don't select any field.
  - Click “Generate Chart”.
- **Expected:**
  - Error: "Select at least one field to visualize."
- **Type: Error Path**

## **Test Suite: TS04 - Admin User Management (ID: 304)**

### **TC07 – Admin Access Dashboard**

- **Action:**
  - Login as admin.
  - Go to "User Management".
- **Expected:**
  - List of registered users appears.
- **Type: Happy Path**

### **TC08 – Non-Admin Tries Admin Access**

- **Action:**
  - Login as a normal user.
  - Attempt to access admin panel via URL.
- **Expected:**
  - Error: "Access Denied."
- **Type: Error Path**

**Test Suite: TS05 - Data Download (ID: 305)**

**TC09 – Download Data as CSV**

- **Action:**
  - After analysis, click “Download CSV”.
- **Expected:**
  - File downloads successfully.
- **Type: Happy Path**

**TC10 – Download Without Analysis**

- **Action:**
  - Click “Download CSV” before uploading any data.
- **Expected:**
  - Error: "No data available to download."
- **Type: Error Path**

## Test Cases

**NEW TEST CASE \***

export file failure

Sitheswar K 0 Comments Add Tag

Save and Close

State: Design Area: Batch Data Analysis and Visualization Reason: New Iteration: Batch Data Analysis and Visualization/development team

**Steps**

Steps	Action	Expected result	Attachments
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](#)

**TEST CASE 28**

Visualization Dashboard

Sitheswar K 0 Comments Add Tag

Save and Close Follow

Updated by Sitheswar K: 4m ago

State: Design Area: Batch Data Analysis and Visualization Reason: New Iteration: Batch Data Analysis and Visualization/development team

**Steps**

Steps	Action	Expected result	Attachments
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

 Microsoft

Edge Add-ons

Discover Extensions Themes

Search extensions, themes, and more



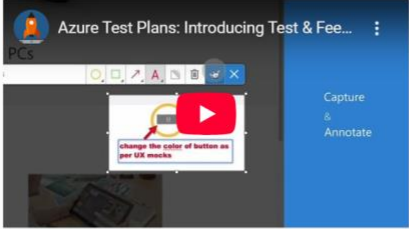
**Test & Feedback**

Extension | Microsoft Corporation

★★★★☆ (28) | 100,000+ Users | Developer tools

Get

Compatible with your browser



**Details**

Version 1.0.256.1

Updated May 6, 2025

Available in 1 language

**Terms**

Privacy policy

**Developer**

More add-ons from Microsoft Corporation (917)

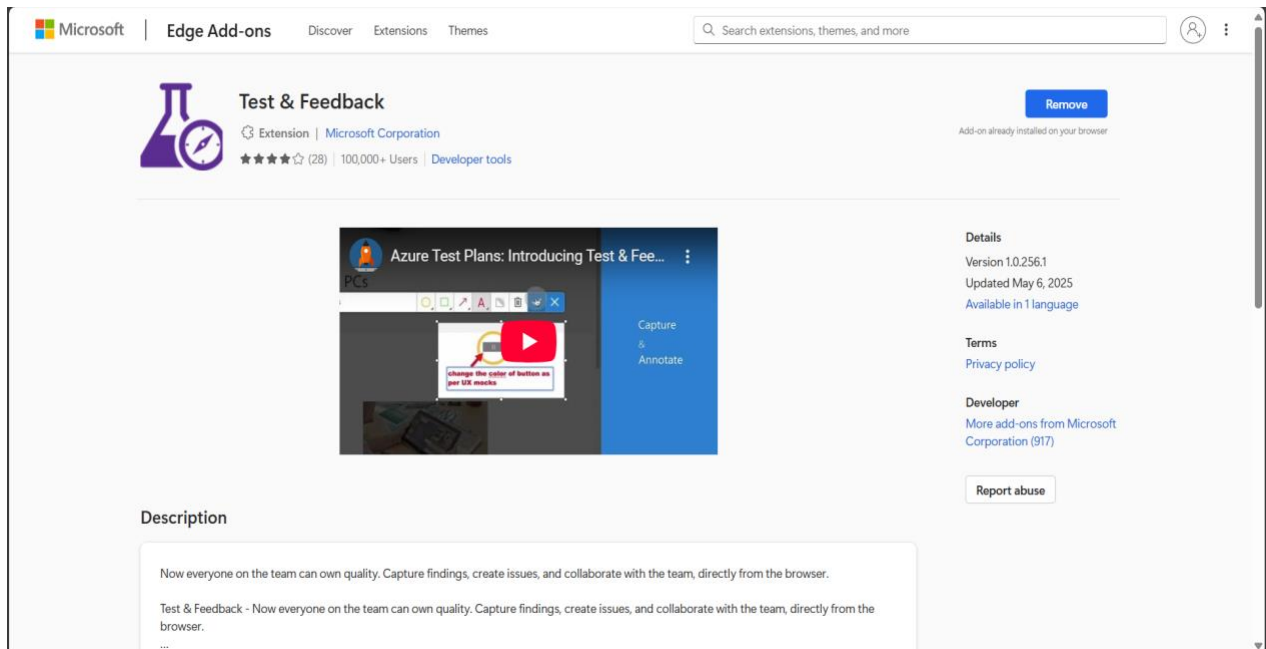
Report abuse

**Description**

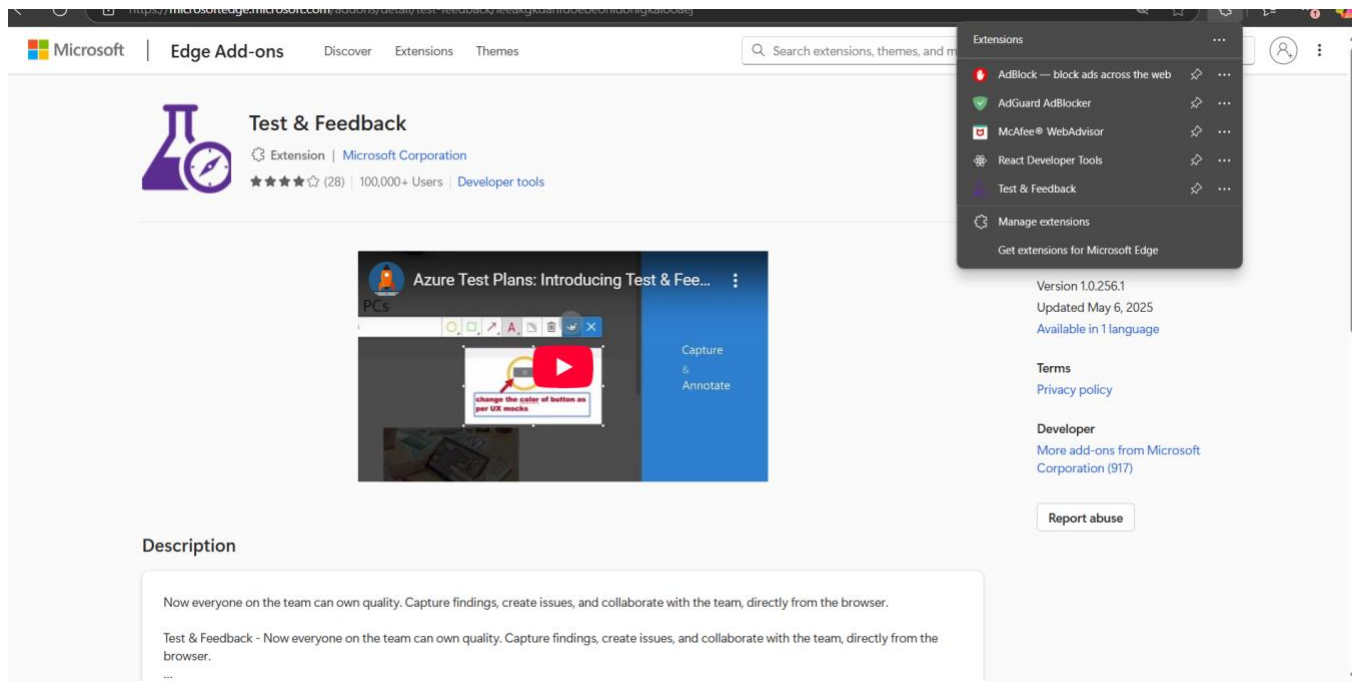
Now everyone on the team can own quality. Capture findings, create issues, and collaborate with the team, directly from the browser.

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

...



Test and feedback  
Showing it as an extension



## 4. Running the test cases

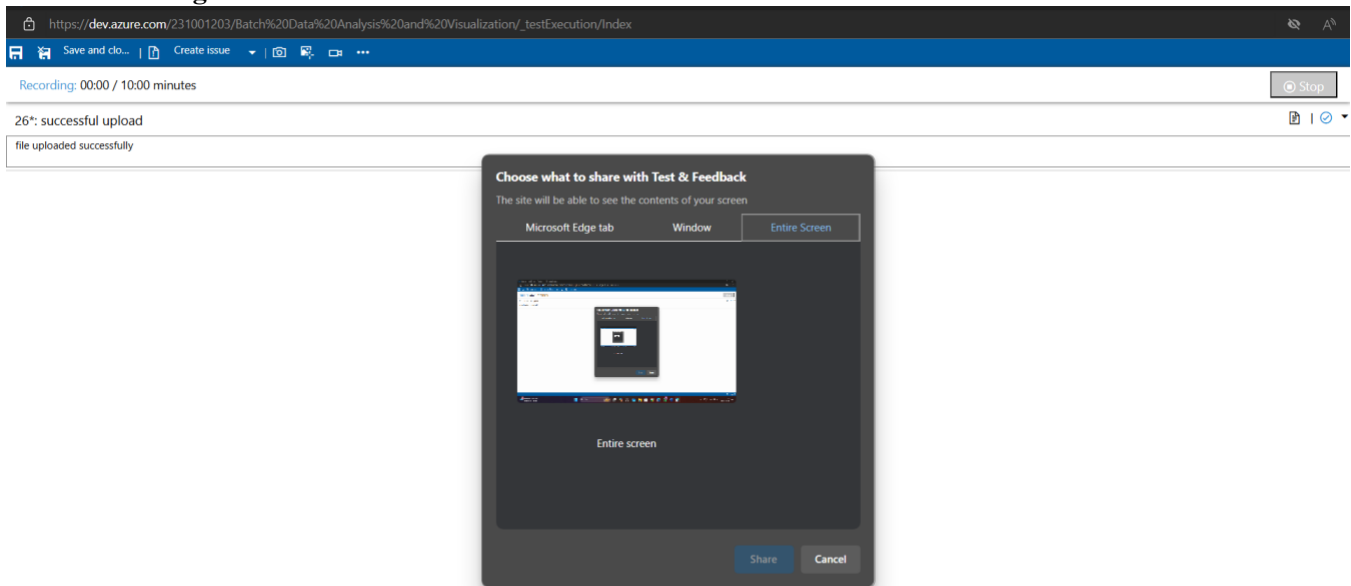
The screenshot shows the Azure DevOps Test Plans interface. The left sidebar contains navigation links for Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Parameters, Configurations, Runs, and Artifacts. The main area displays a test plan titled 'Batch Data Analysis and Visualization - Test Plan (ID: 25)'. The 'Test Suites' section shows a filter by name and a list of test suites. The 'Test Points' section lists 4 items:

Title	Outcome	Order	Test Case Id
<input checked="" type="checkbox"/> successful upload	Active	1	26
<input type="checkbox"/> andle large file uploads with progress indicator	Active	2	27
<input type="checkbox"/> Visualization Dashboard	Active	3	28
<input type="checkbox"/> export file failure			

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

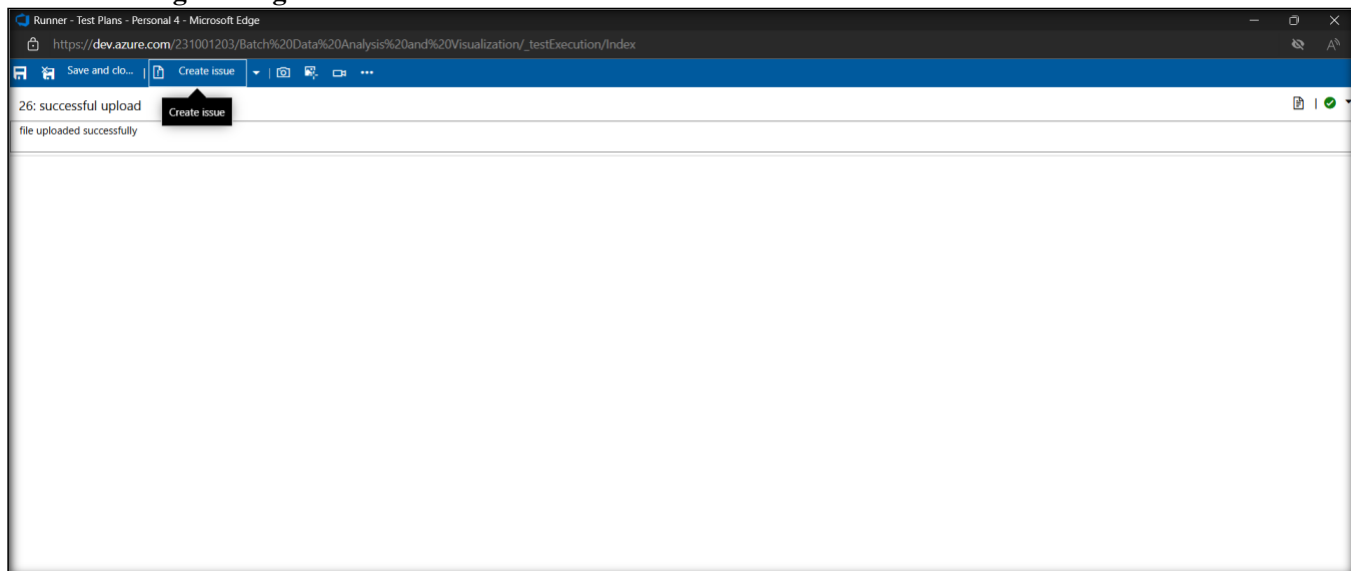
The screenshot shows the Azure DevOps Test Runner interface. The browser address bar displays the URL: [https://dev.azure.com/231001203/Batch%20Data%20Analysis%20and%20Visualization/\\_testExecution/index](https://dev.azure.com/231001203/Batch%20Data%20Analysis%20and%20Visualization/_testExecution/index). The test runner shows the status '26\*: successful upload' and the message 'file uploaded successfully'.

## 5. Recording the test case

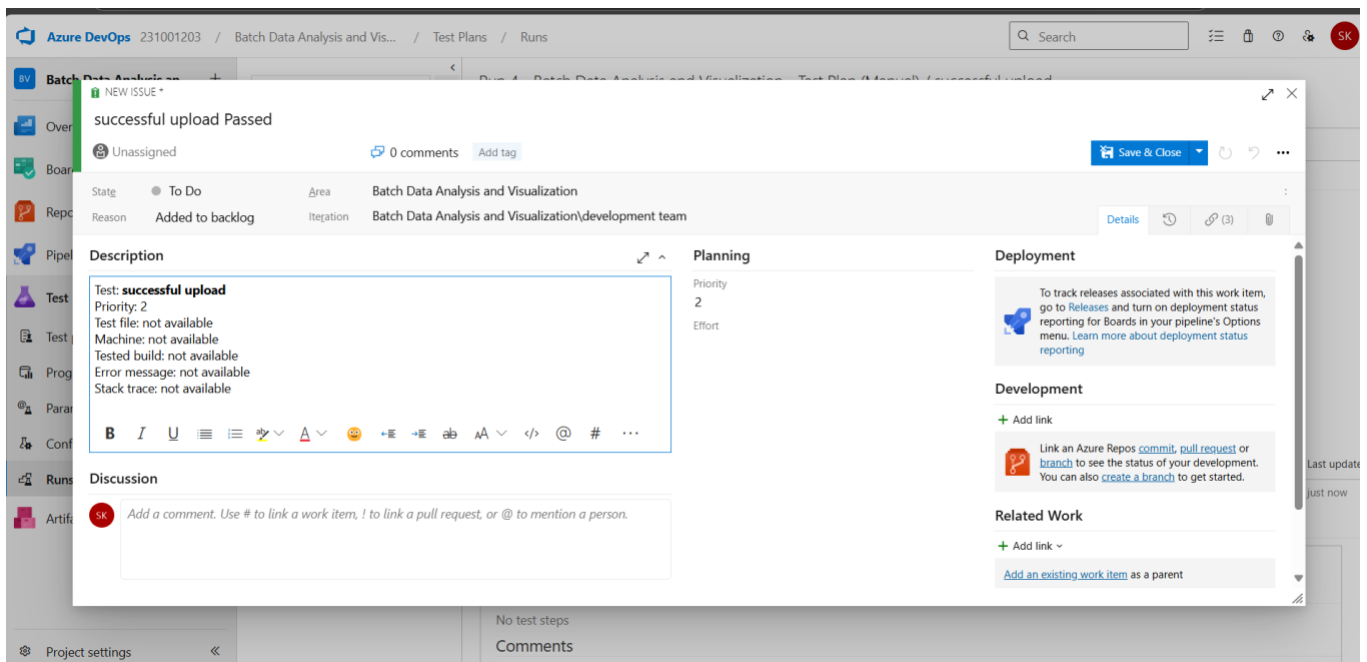
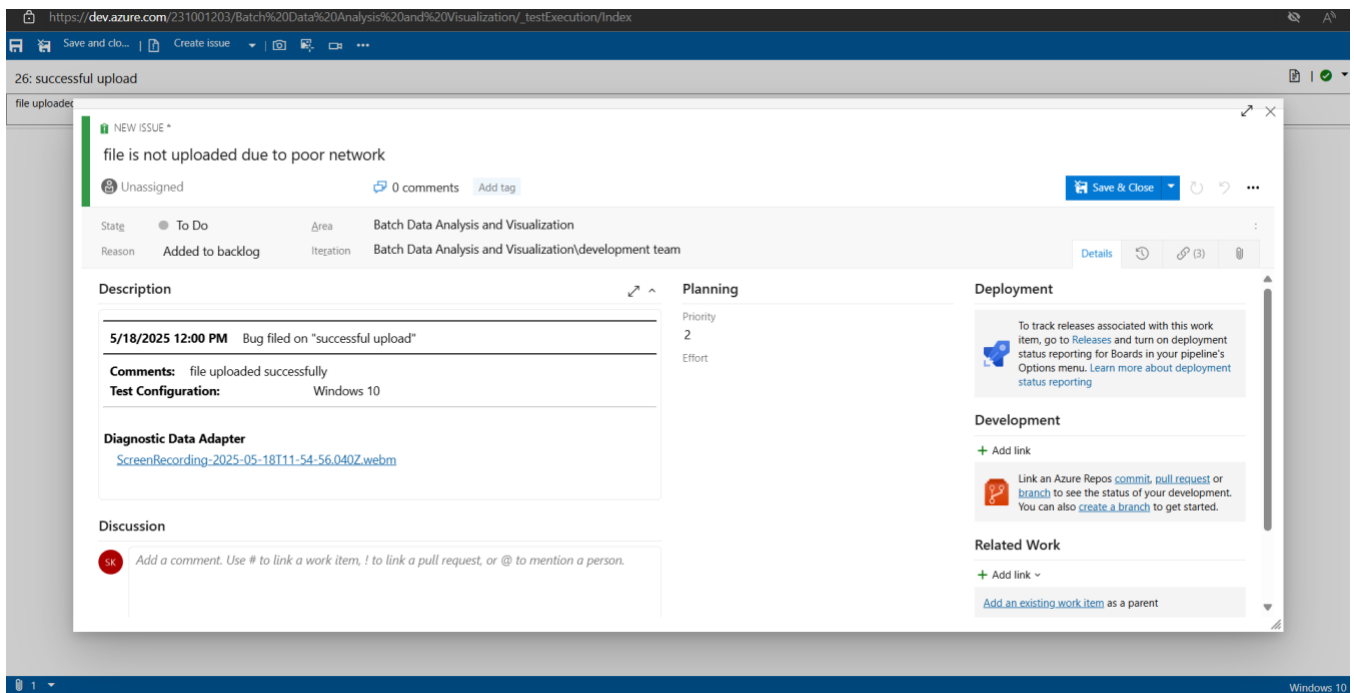


Windows 10

## 6. Creating the bug







## 7. Test case results

The screenshot shows the Azure DevOps interface for a test plan named 'Batch Data Analysis and Visualization'. The left sidebar contains navigation links for Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Parameters, Configurations, Runs, and Artifacts. The main area displays the 'Test Suites' section with a filter by name. Below it, the 'Test Points (4 items)' are listed: 'successful upload' (checked), 'andle large file uploads with progress', 'Visualization Dashboard', and 'export file failure'. A modal window titled 'successful upload' is open, showing the 'Test Case Results' table.

Outcome	TimeSta...	Configuration	Run by	Tester	Test
Passed	Just now	Windows 10	Sitheswar K	Sitheswar K	Batc
In Progress	13m ago	Windows 10	Sitheswar K	Sitheswar K	Batc
Passed	8h ago	Windows 10	Sitheswar K	Sitheswar K	Batc

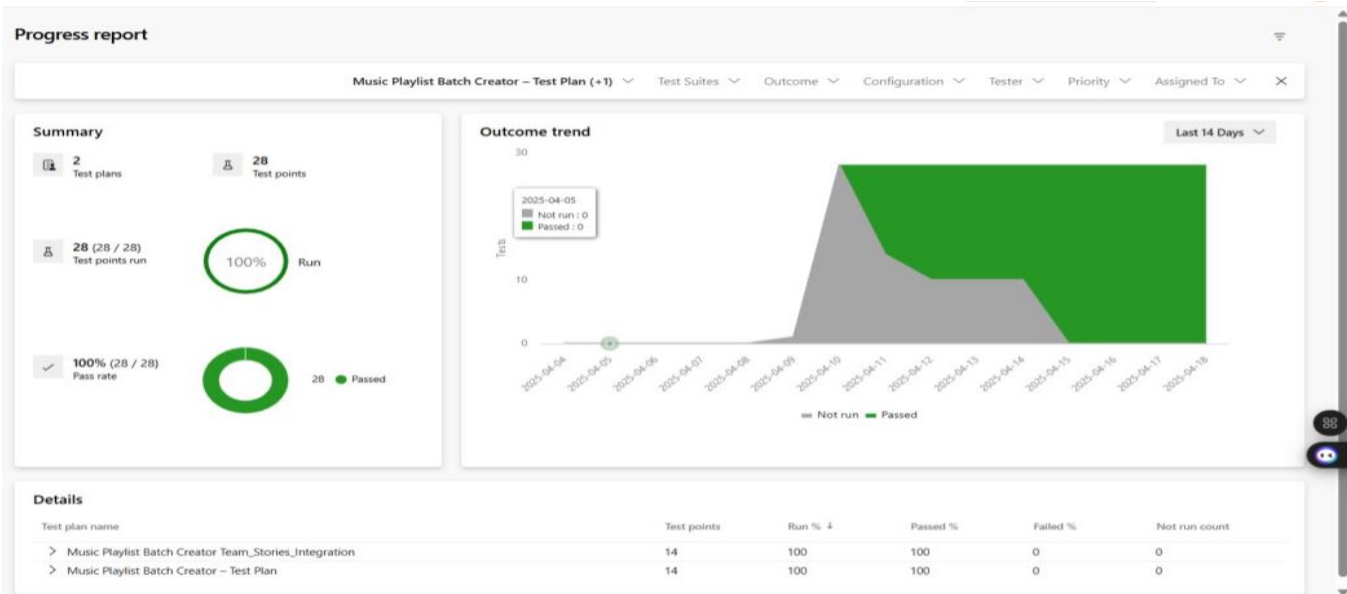
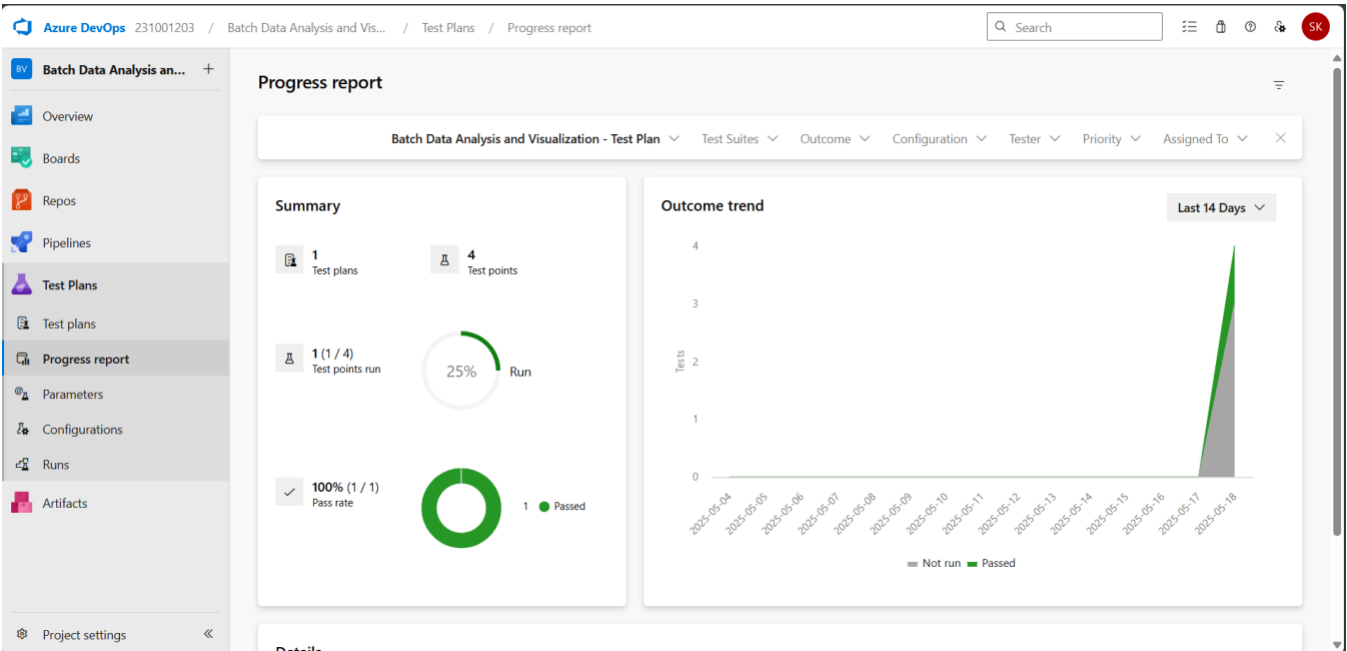
Below the table, there is a link: [Open execution history for current test point](#).

## 8. Test report summary

The screenshot shows the Azure DevOps 'Work items' page. The left sidebar contains navigation links for Overview, Boards, Work items, Boards, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays a list of work items. The first item is a bug report titled 'file is not uploaded due to poor network'. The 'State' is 'Done' and the 'Reason' is 'To Do'. The 'Description' field contains the text: '5/18/2025 12:00 PM Bug filed on "successful upload"'. The 'Comments' field contains the text: 'file uploaded successfully'. The 'Test Configuration' field contains the text: 'Windows 10'. The 'Diagnostic Data Adapter' field contains the text: 'ScreenRecording-2025-05-18T11:54:56.040Z.webm'. The 'Planning' section shows 'Priority' as 2 and 'Effort' as 1. The 'Deployment' section contains a link to 'Releases' and a link to 'more about deployment status reporting'. The 'Development' section contains a link to 'Add link' and a link to '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

9. Progress report



## 10. Changing the test template

Azure DevOps 231001203 / Settings / Process

Search

Organization Settings  
231001203

Search Settings

**General**

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

**Security**

- Security overview
- Policies
- Permissions

**Boards**

- Process

**All processes**

Processes Fields

Help Filter by process name

Name	Description	Team projects
Basic (default)	This template is flexible for any process and great for teams getting started with A...	1
Agile	This template is flexible and will work great for most teams using Agile planning m...	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 impro...	0

Azure DevOps 231001203 / Settings / Process

Search

Organization Settings 231001203

Search Settings

General

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

Security

- Security overview
- Policies
- Permissions

Boards

- Process

Process

All processes

Help Filter by process name

Name	Description	Team projects
Basic (default)	This template is flexible for any process and great for teams getting started with A...	1
Agile	This template is flexible and will work great for most teams using Agile planning m...	1
231001203 agile		0
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 impro...	0

Azure DevOps 231001203 / Settings / Process

System processes cannot be customized. To add customization create an inherited process.

Organization Settings 231001203

Search Settings

General

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

Security

- Security overview
- Policies
- Permissions

Boards

- Process

Process

All processes > Agile

Work item types Backlog levels Projects

Name	Description
231001203 agile	...

Change the project process

Change the process used by the project to another process.

Select a target process

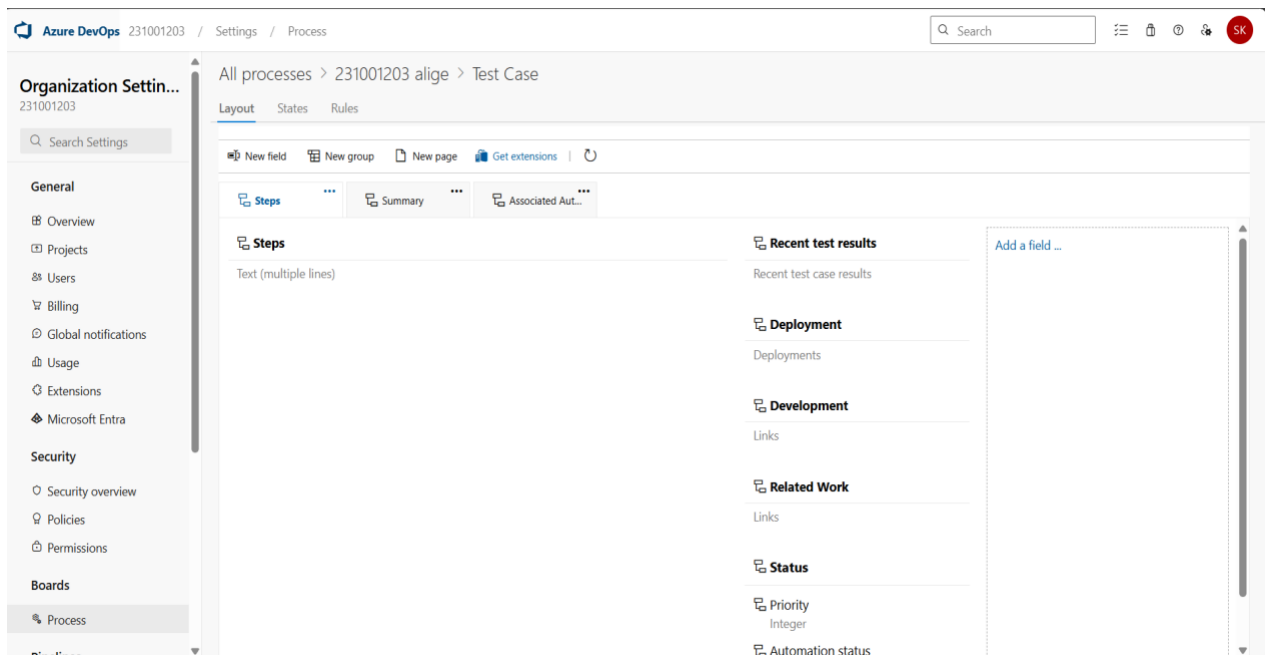
Select a target process

Save

## 11. View the new test case template

The screenshot shows the 'Add a field to Bug' dialog box in the Azure DevOps interface. The dialog has three tabs: 'Definition', 'Options', and 'Layout'. The 'Definition' tab is active, showing the instruction 'Add a field to store custom, queryable data about your work items.' Below this, there are two radio buttons: 'Use an existing field' (selected) and 'Create a field'. Under 'Use an existing field', there is a 'Field' dropdown menu with 'Acceptance Criteria' selected. Under 'Create a field', there are three input fields: 'Name' (containing 'type'), 'Type' (a dropdown menu with 'Text (single line)' selected), and 'Description' (containing 'Optionally provide a description for the field'). At the bottom right of the dialog are 'Add field' and 'Cancel' buttons. The background shows the 'All processes > 231001203' page with a sidebar on the left containing 'Organization Settings' and 'Boards' sections. The 'Boards' section is expanded, showing 'Process' and 'Pipelines' options.

The screenshot shows the 'All processes > Agile' page in the Azure DevOps interface. The page has a sidebar on the left with 'Organization Settings' and 'Boards' sections. The 'Boards' section is expanded, showing 'Process' and 'Pipelines' options. The main content area shows a table with columns 'Name' and 'Description'. The table has one row with the name '231001203 agile' and a description '...'. Above the table, there are tabs for 'Work item types', 'Backlog levels', and 'Projects'. A message at the top of the main content area states: 'System processes cannot be customized. To add customization create an inherited process.'



## Result:

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

**EXP NO: 9**

## **LOAD TESTING AND PERFORMANCE TESTING**

### **Aim:**

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

### **Load Testing**

#### **Steps to Create an Azure Load Testing Resource:**

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

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

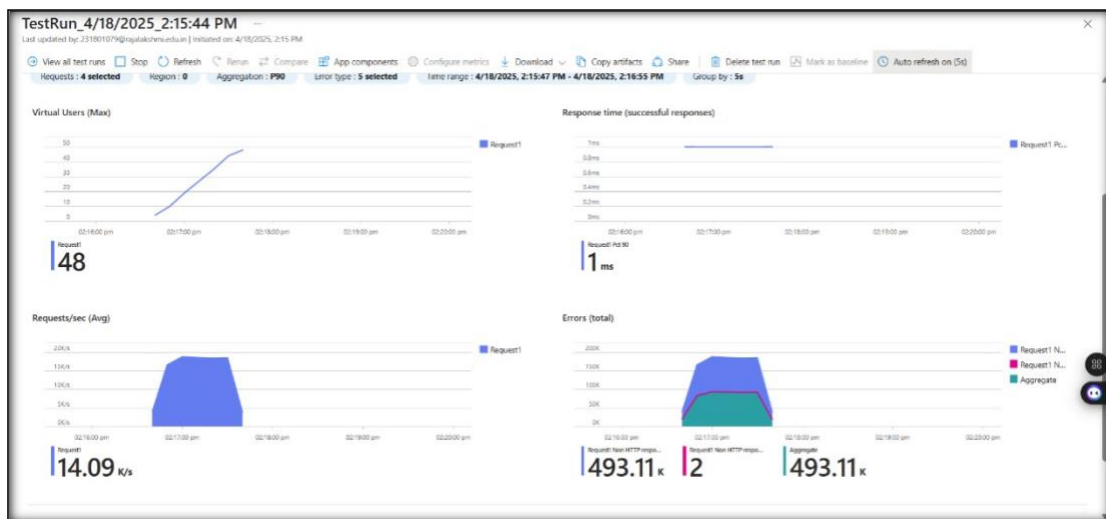
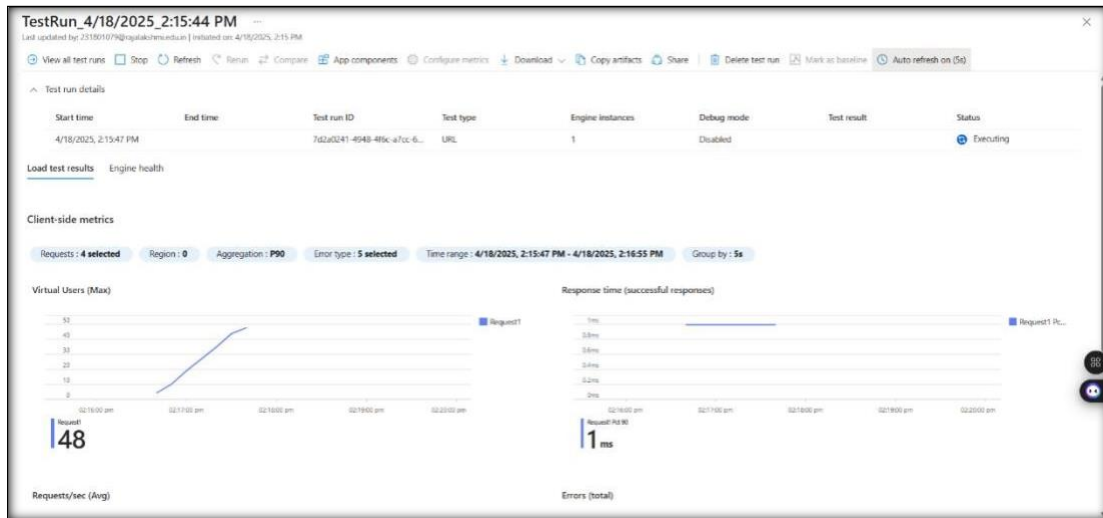
#### **Steps to Create and Run a Load Test:**

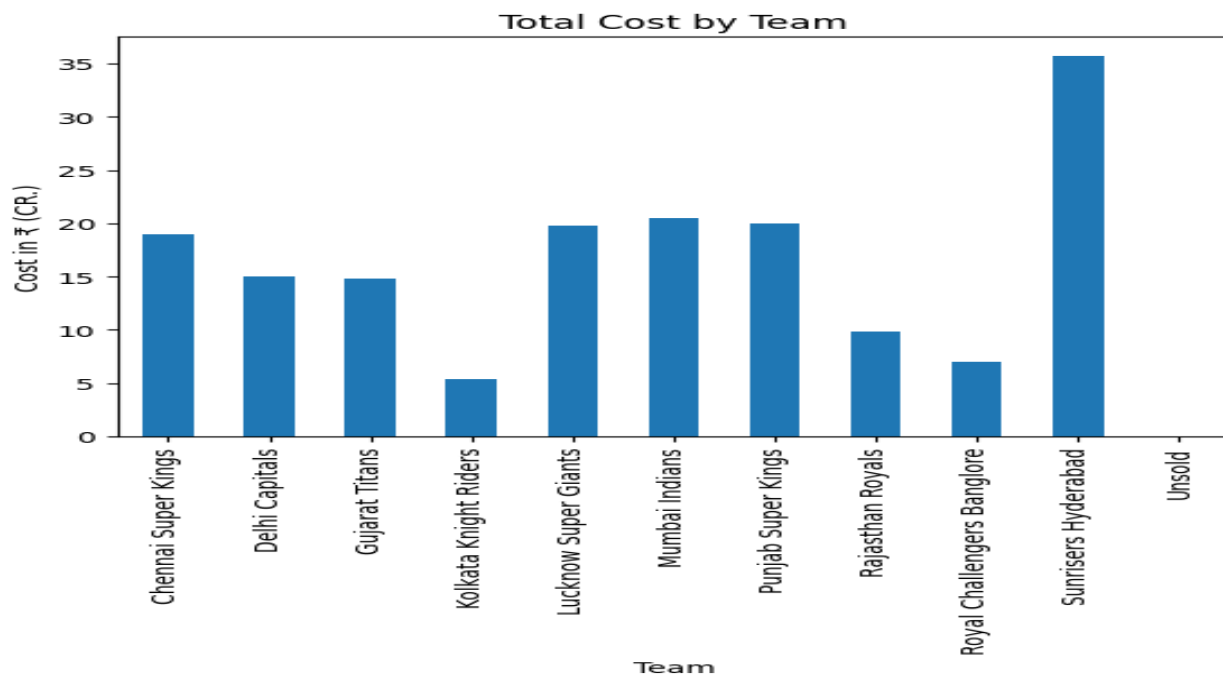
Once your resource is ready:

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



## Load Testing





**Result:**

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

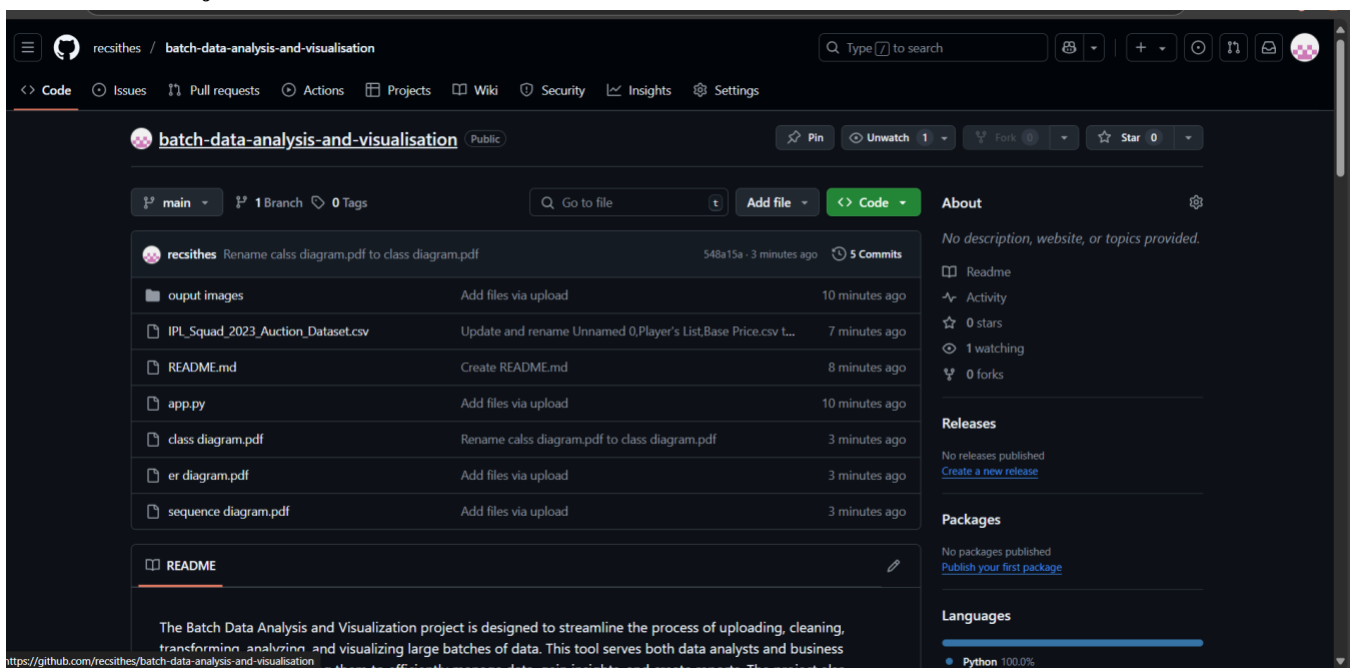
EXP NO: 10

## GITHUB: PROJECT STRUCTURE & NAMING CONVENTIONS

### Aim:

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