

EXP NO: 1

AZURE DEVOPS ENVIRONMENT SETUP

Aim:

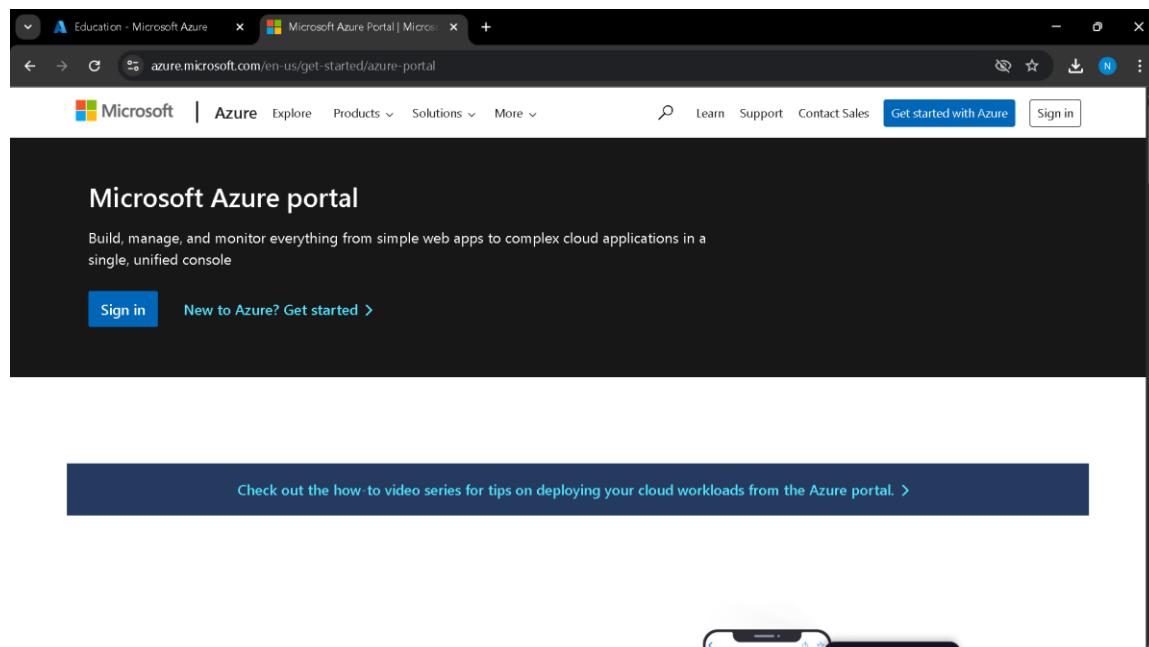
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

INSTALLATION

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

Sign in using your Microsoft account credentials.

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



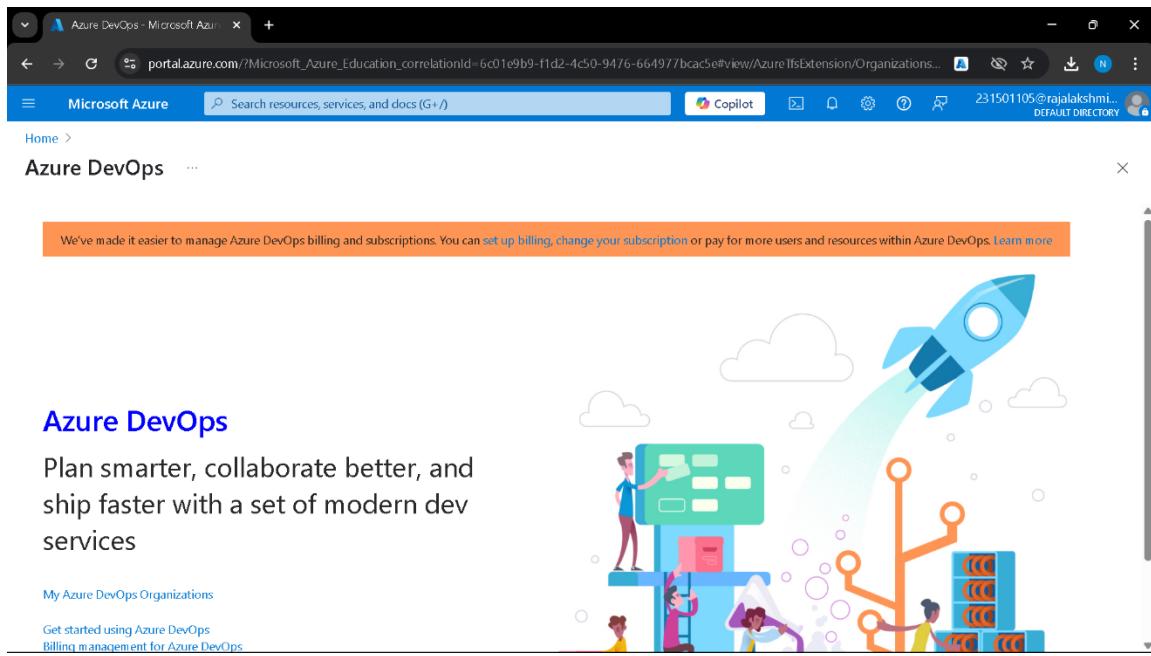
2. Azure home page

The screenshot shows the Microsoft Azure Education Overview page. The left sidebar includes links for Overview, Learning resources (Roles, Software, Learning, Templates, GitHub), and Need help?. The main content area displays 'Student offer details' showing '\$100 out of \$100' available credits and '260' days until credit expires. It also features a 'Popular solutions' section with links to Deploy a Docker container, Create your first Node.js app, Create and train a Machine Learning model, and Build and deploy your first website. At the bottom, there are sections for Free Services and Free software.

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

The screenshot shows the Microsoft Azure Education Overview page with a search bar at the top containing the text 'Azure DevOps Organizations'. The search history below it lists 'azure devops', 'azure dev', and 'help'. The main content area remains the same as in the previous screenshot, displaying student offer details and popular solutions.

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



Result:

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

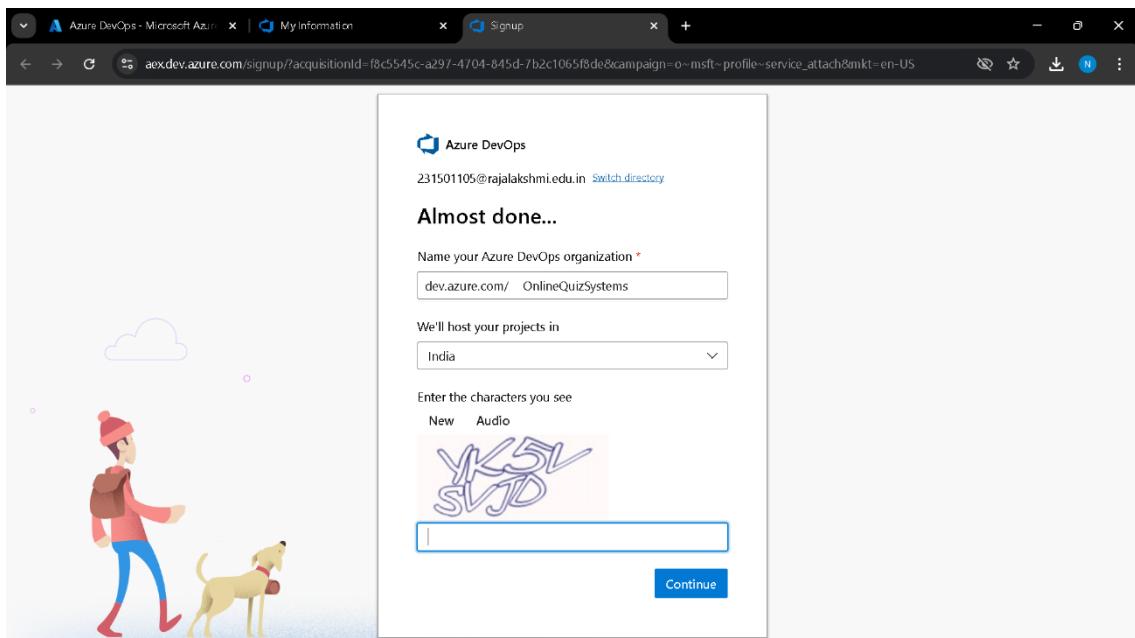
EXP NO: 2

AZURE DEVOPS PROJECT SETUP AND USER STORY MANAGEMENT

Aim:

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

1. Create An Azure Account



2. Create the First Project in Your Organization

a. After the organization is set up, you'll need to create your first **project**. This is where you'll begin to manage code, pipelines, work items, and more.

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

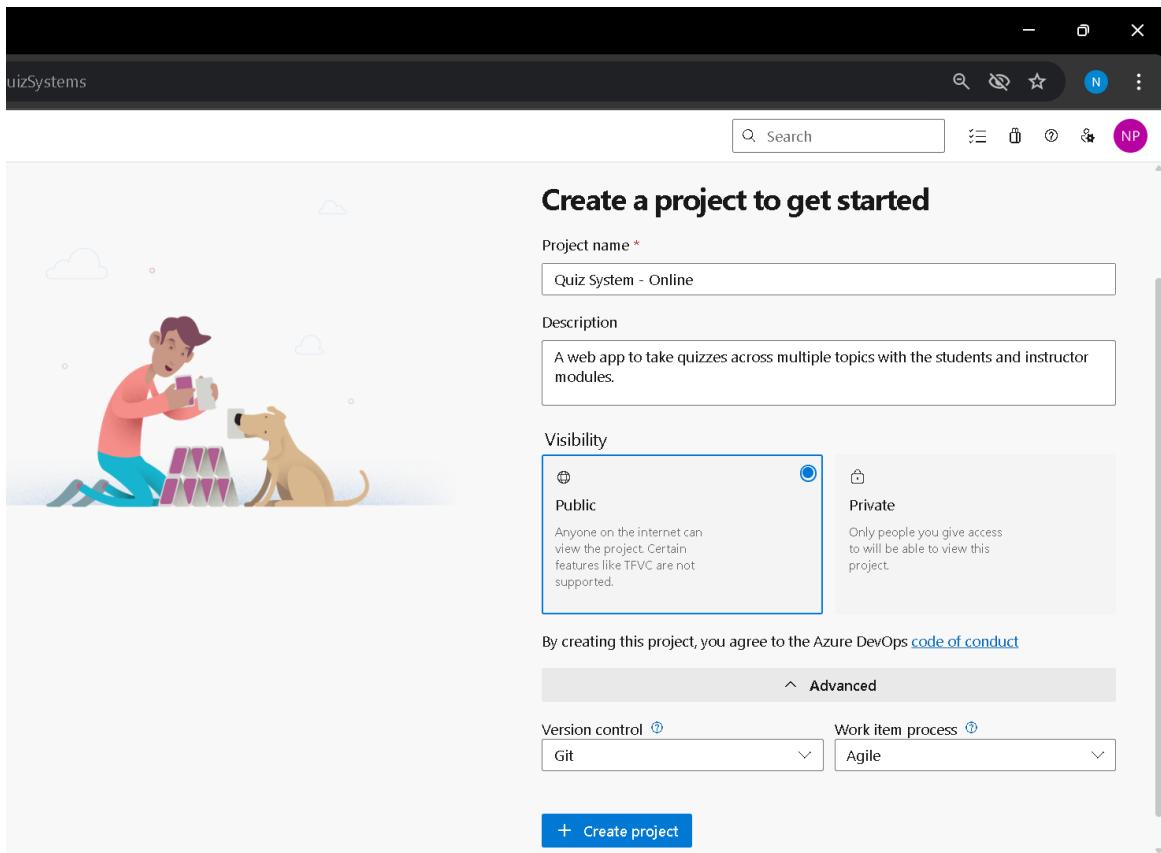
c. Enter the project name, description, and visibility options:

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

Description: Optionally, add a description to provide more context about the project.

Visibility: Choose whether you want the project to be **Private** (accessible only to those invited) or **Public** (accessible to anyone).

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



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.

Azure DevOps - Microsoft Azure | My Information | Projects - Home

aex.dev.azure.com/me?mkt=en-US#

Nandhini Prakash Sign out

N

Nandhini Prakash Edit profile
231501105@rajalakshmi.edu.in

Microsoft account ▾
India
231501105@rajalakshmi.edu.in

Visual Studio Dev Essentials
Get everything you need to build and deploy your app

Azure DevOps Organizations

Create new organization

> dev.azure.com/231501105 (Owner)

> dev.azure.com/OnlineQuizSystems (Owner)

Projects Actions
Quiz System - Online Open in Visual Studio
New project

> dev.azure.com/231501099 (Member)

> dev.azure.com/OnlineQuizSystem (Member)

4. Project dashboard

x Work items - Boards

ted/

Search

Microsoft

Sign out

N

more.

Import Work Items

Types Assigned to

Assigned To

Sign in with a different account

Types	Assigned to	Assigned To
Unassigned	To Do	Quiz System - Online
Unassigned	To Do	Quiz System - Online
Unassigned	To Do	Quiz System - Online

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 managing work items. The left sidebar is titled 'Quiz System - Online' and includes options like Overview, Boards, Work items (which is selected), Boards, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The main content area is titled 'Work items' and shows a list of recently updated items. The table has columns for ID, Title, Assigned To, State, and Area Path. The first item in the list is 'Load Testing and Deployment'.

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

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

1. Fill in Epics

The screenshot shows the Azure DevOps interface for a project titled "Quiz System - Online Team". The left sidebar navigation includes "Overview", "Work items", "Boards", "Backlogs" (selected), "Sprints", "Queries", "Delivery Plans", "Analytics views", "Repos", "Pipelines", "Test Plans", "Artifacts", and "Project settings". The main content area displays the "Backlog" tab under "Analytics". A table lists work items with columns for Order, Work Item Type, Title, and State. The backlog contains several items: an Epic for User Registration and Authentication, which branches into a Feature for Email-based Signup and Login, and two User Stories ("As a user, I want to sign up using my email and pass..." and "As a user, I want to log in securely so that my account..."). Another Epic for Instructor Registration and Access Control branches into a Feature for Quiz creation and Management, which further branches into a Feature for Question bank with Image Upload and a User Story for Quiz attempt and Submission. The right side of the screen shows a "Planning" pane with sections for "Planning", "Iteration 1", "Iteration 2", and "Iteration 3", each indicating "No work scheduled yet". A "New Sprint" button is also visible.

2. Fill in Features

The screenshot shows the Azure DevOps interface for a Feature work item. The URL is https://dev.azure.com/OnlineQuiz1systems/Quiz%20Online/_backlogs/backlog/Quiz%20Online%20Team/Features?workitem=11. The feature is titled "11 Email-based Signup and Login". The "Planning" section shows a Priority of 2. The "Deployment" section includes a note about tracking releases and a link to Azure Repos. The "Development" section has a "Add link" button. The "Classification" section shows the value area as Business.

3. Fill in User Story Details

The screenshot shows the Azure DevOps interface for a new User Story. The URL is https://dev.azure.com/OnlineQuiz1systems/Quiz%20Online/_backlogs/backlog/Quiz%20Online%20Team/Stories. The user story is titled "As a user, I want to log in securely so that my account is safe and secure". The "Planning" section shows a Priority of 2. The "Deployment" section includes a note about tracking releases and a link to Azure Repos. The "Development" section has a "Add link" button. The "Classification" section shows the value area as Business.

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 Taskboard for the 'Quiz System - Online Team' project. The left sidebar navigation bar is visible, showing options like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The 'Sprints' option is currently selected. The main area displays a taskboard with columns for New, Active, Resolved, and Closed tasks. The 'New' column contains three user stories, each with a small icon, the story ID (e.g., 69, 70, 71), a brief description, and two radio button options: 'New' and 'Unassigned'. The 'Active' column is empty. The 'Resolved' and 'Closed' columns also contain no tasks. At the top right of the taskboard, there are buttons for '+ New Work Item' and 'Column Options'. A date range 'March 1 - March 31' and '21 work days' are displayed at the top right. The overall interface is clean and modern, typical of a cloud-based development tool.

Sprint 2

The screenshot shows the Azure DevOps Taskboard for the 'Quiz System - Online Team' project. The board is set to 'Taskboard' mode, showing a backlog of user stories. The backlog items are:

- #62 As an instructor, I want to add multiple-choice questions to a quiz. Status: New, Assignee: Unassigned.
- #63 As an instructor, I want to select question types while creating a quiz. Status: New, Assignee: Unassigned.
- #64 As an instructor, I want to update quiz details if needed. Status: New, Assignee: Unassigned.

The board has columns for New, Active, Resolved, and Closed. The time range for the board is February 1 - February 28, 20 work days.

Sprint 3

The screenshot shows the Azure DevOps Taskboard for the 'Quiz System - Online Team' project. The board is set to 'Reports, Analytics and Deployment' mode, showing a backlog of user stories. The backlog items are:

- #82 As an instructor, I want to see how many students attempted each quiz. Status: New, Assignee: Unassigned.
- #83 As an instructor, I want to view detailed responses for each question. Status: New, Assignee: Unassigned.
- #84 As an instructor, I want to export quiz reports as Excel. Status: New, Assignee: Unassigned.

The board has columns for New, Active, Resolved, and Closed. The time range for the board is April 1 - April 29, 21 work days.

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

The screenshot shows the Azure DevOps interface for a User Story titled 'S4 As a user, I want to sign up using my email and password so that I can access the quiz system.' The story is in the 'New' state and is assigned to the 'Quiz System - Online' area and iteration. The 'Planning' section shows a priority of 2 and story points of 1. The 'Deployment' section provides instructions on tracking releases. The 'Classification' section indicates the value area is 'Business'. The 'Development' section includes a link to an Azure Repos pull request. The 'Discussion' section is currently empty. The sidebar on the left shows various project management sections like Boards, Backlogs, and Work items.

Result:

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

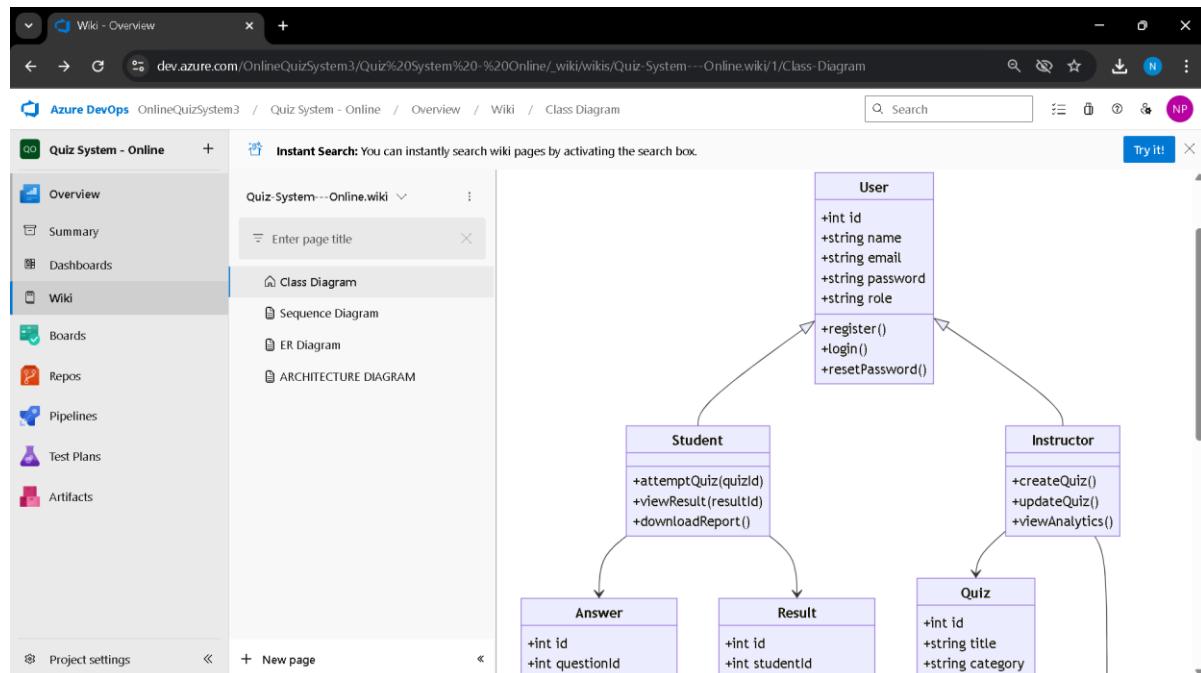
EXP NO: 6

DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE

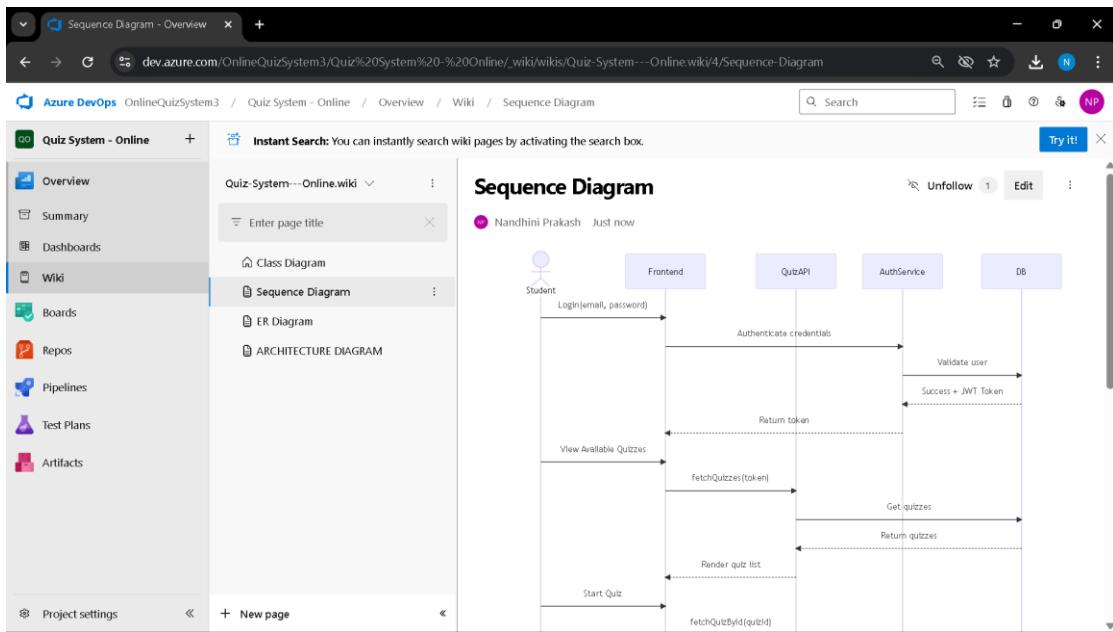
Aim:

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.

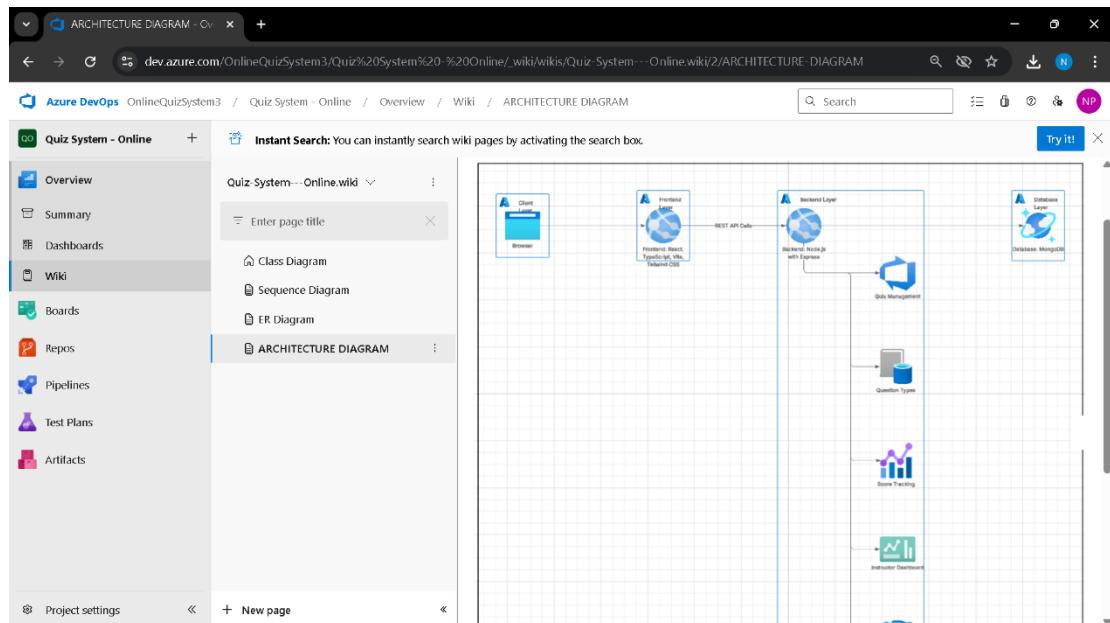
EXP NO: 7

DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE

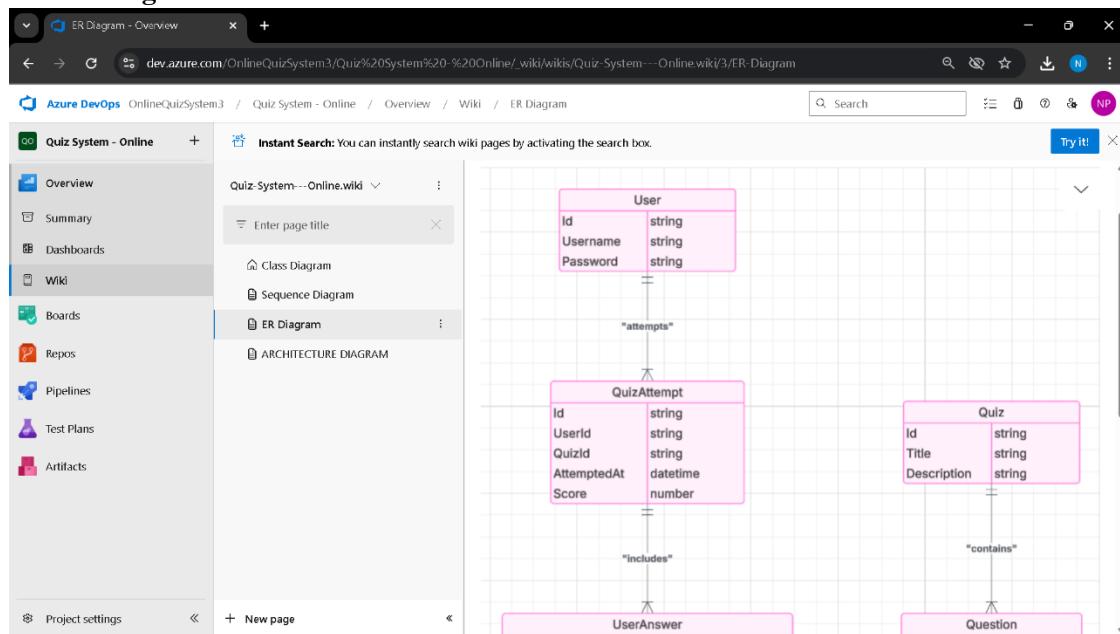
Aim:

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
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Aim:

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

Test Planning and Test Case**Test Case Design Procedure****1. Understand Core Features of the Application**

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

2. Define User Interactions

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

3. Design Happy Path Test Cases

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

4. Design Error Path Test Cases

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

5. Break Down Steps and Expected Results

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

6. Use Clear Naming and IDs

- Test cases are named clearly (e.g., TC01 – Successful Login, TC10 – Save Playlist Fails).
- Helps in quick identification and linking to user stories or features.

7. Separate Test Suites

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

- Improves organization and test execution flow in Azure DevOps.

8. Prioritize and Review

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

1. New test plan

The screenshot shows the Azure DevOps interface for a project named "OnlineQuizSystem3". The user is viewing the "Backlogs" section. A new work item, "Task 94: test 1", has been created. The details for this task include:

- Description:** Click to add Description.
- Planning:** Priority: 2, Activity: [empty]
- Effort (Hours):** Original Estimate: [empty], Remaining: [empty], Completed: [empty]
- Implementation:** [empty]
- 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.

2. Test suite

The screenshot shows the Azure DevOps interface for a project named "OnlineQuizSystem". The user is viewing the "Test Plans" section. A specific test plan, "31 : As a user, I want to sign up using my email and password so that I can access the quiz system.", is selected. The results for this test plan are displayed in a table:

Title	Outcome	Order	Test Case Id
Test1	Passed	1	72
te	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

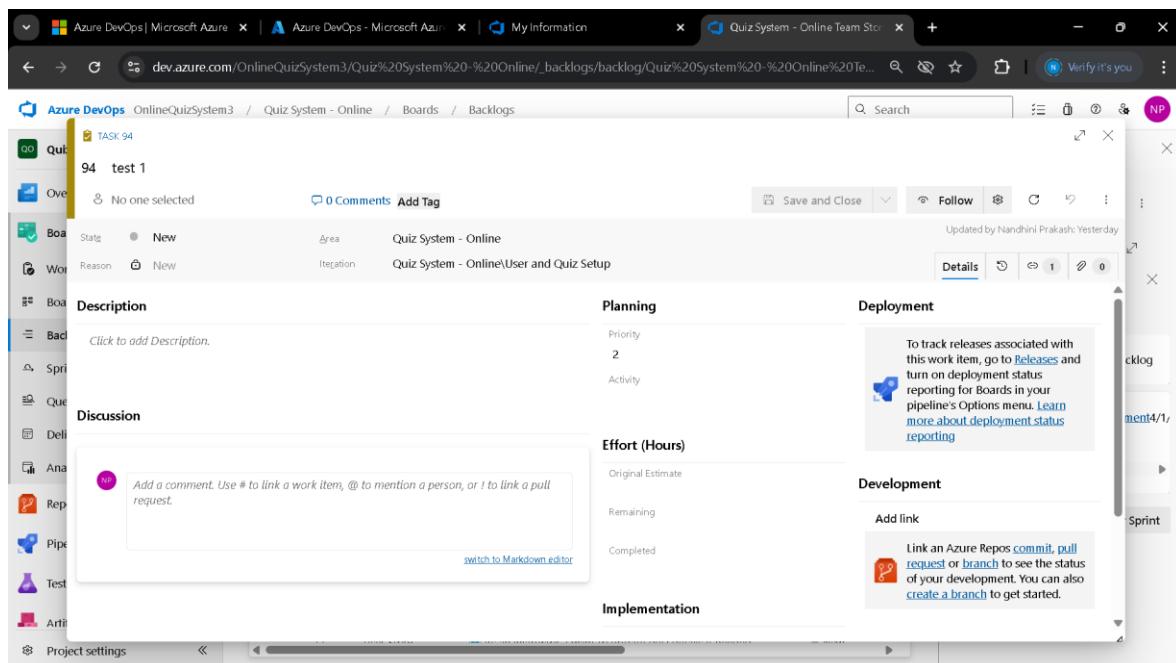
Action:

- Click "Generate" without selecting subject

Expected Result:

- Error: "Please select a valid subject/category"

Test Cases



A screenshot of the Azure DevOps interface, specifically the Work items - Boards view. The left sidebar shows navigation options like Boards, Work items, and Delivery Plans. The main area displays a work item titled "95 test 2" by "Nandini Prakash". The work item details include Status: Design, Reason: New, Area: Quiz System - Online, Iteration: Quiz System - Online\user and Quiz Set..., and Steps tab selected. Below the details is a "Steps" section with a table header "Steps Action" and a note "Click or type here to add a step". To the right is a "Deployment" section with a note about tracking releases and a "Development" section with a link to add an Azure Repos commit or pull request.

3. Installation of test

A screenshot of the Chrome Extensions page. The "My extensions" tab is selected. A specific extension, "Test & Feedback", is highlighted. The extension details show it is turned "On", has a description about capturing findings and collaborating with the team, version 1.0.256.1, and a size of 5.6 MB. It also lists permissions for reading and changing data on all websites, and site access settings allowing data reading and changing on all sites.

Test and feedback

Showing it as an extension

The screenshot shows the Azure DevOps Test Plans interface for the Online Quiz System project. The left sidebar navigation bar is visible, with 'Test plans' selected. The main content area displays a test point for a user story titled '40 : As an instructor, I want to select question types while creating a quiz. (ID: 97)'. The 'Execute' tab is selected. The 'Test Points (1 item)' section shows one test point: 'test 10', which has an outcome of 'Passed'.

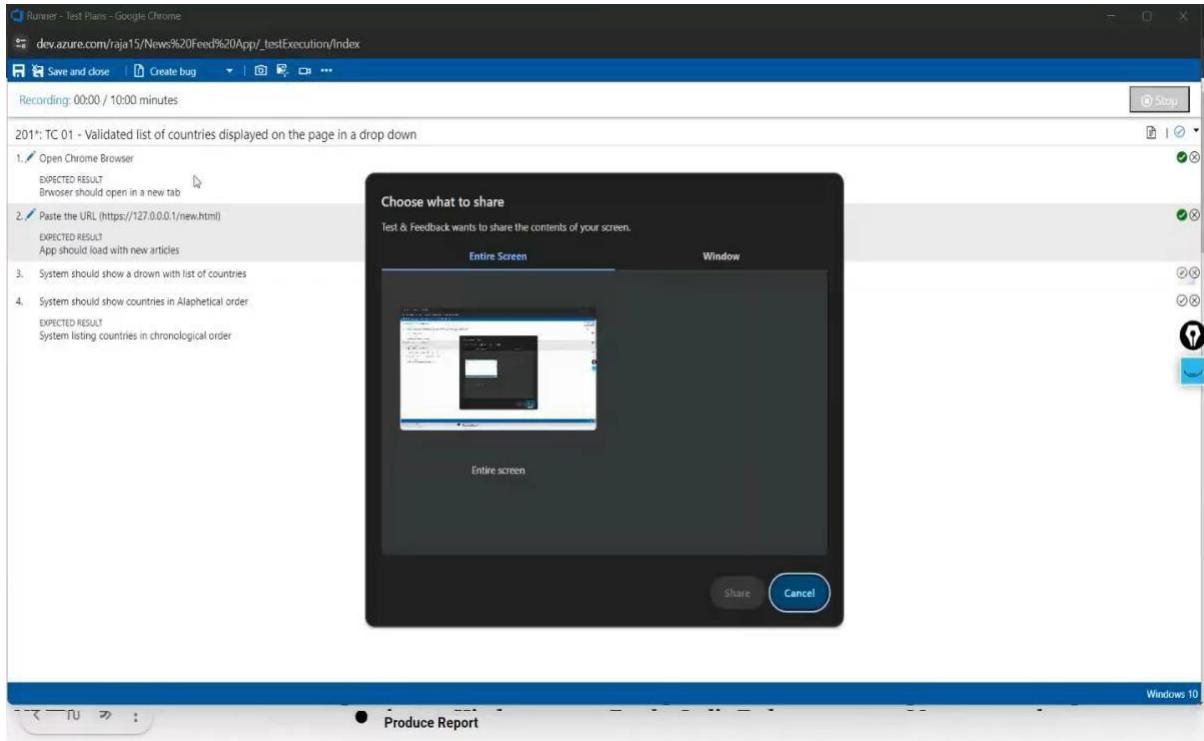
Title	Outcome	Order	Test Case Id
test 10	Passed	1	96

4. Running the test cases

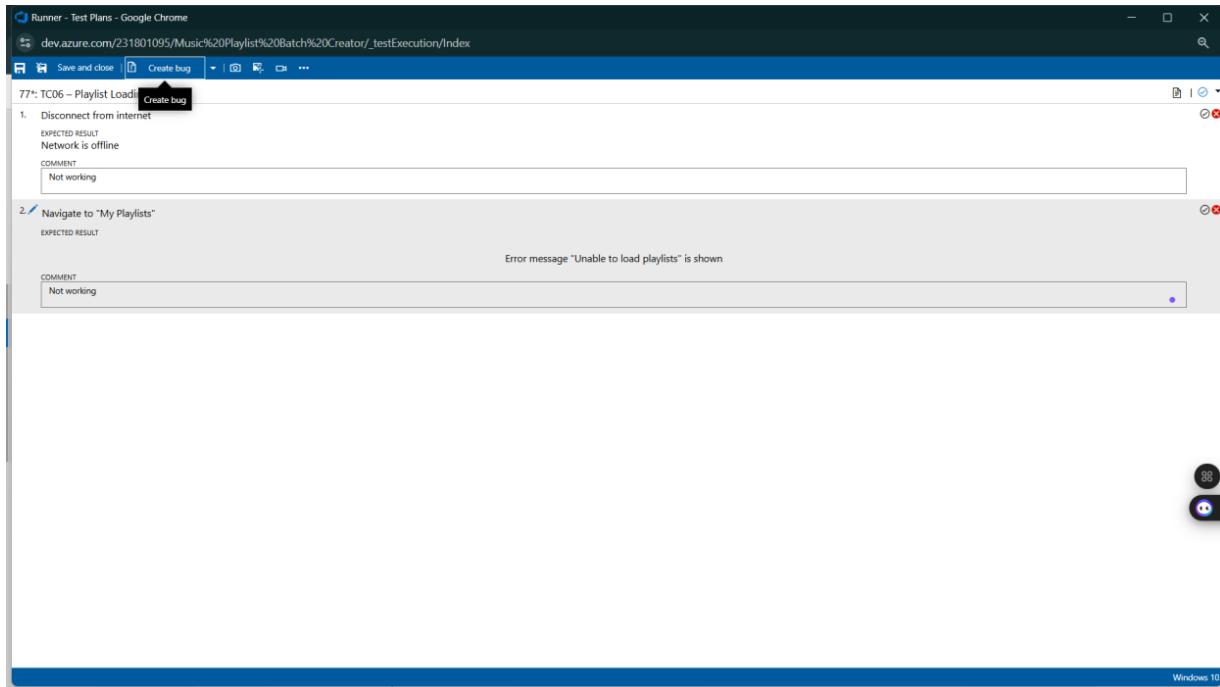
The screenshot shows the Azure DevOps Test Plans interface for the 'Online Quiz System' project. The left sidebar navigation bar includes 'Overview', 'Boards', 'Repos', 'Pipelines', 'Test Plans' (selected), 'Test plans', 'Progress report', 'Runs', and 'Artifacts'. The main content area displays a test suite titled '36 : As an instructor, I want to be redirected to my dashboard after login. (ID: 87)'. The 'Execute' tab is selected. The 'Test Points (1 item)' section contains one point: 'test 6' (Passed). A 'Run for web application' button is visible.

The screenshot shows a browser window titled 'Runner - Test Plans - Google Chrome' with the URL 'dev.azure.com/231801095/Music%20Playlist%20Batch%20Creator/_testExecution/Index'. The page displays a test case titled '75: TC05 – View Playlist Page'. It lists two steps: 1. 'Log in successfully' (Expected Result: User is redirected to dashboard) and 2. 'Navigate to "My Playlists" section' (Expected Result: All created playlists are displayed clearly). Both steps are marked as passed.

5. Recording the test case



6. Creating the bug



7. Test case results

The screenshot shows the Azure DevOps interface for a test plan. On the left, the navigation pane is open with 'Test Plans' selected. In the center, a test suite named 'TS02 - View Playlists (ID: 87)' is displayed under the 'Execute' tab. A table titled 'Test Case Results' lists various test points with their outcomes, timestamps, configurations, and testers. One row is highlighted for 'TC05 – View Playlist Page'. At the bottom of the table, there is a link to 'Open execution history for current test point'.

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

8. Test report summary

The screenshot shows the Azure DevOps interface for a work item. The left sidebar shows the project structure with 'News Feed App' selected. The main area displays a bug report titled 'BUG 203: BG 01 - Countries Drop down Not Available on the page'. The work item details include the state (New), reason (New), repro step (Active, Resolved, Closed), and steps with results (Passed, Failed). The right side shows sections for Planning, Deployment, Development, and Effort (Hours).

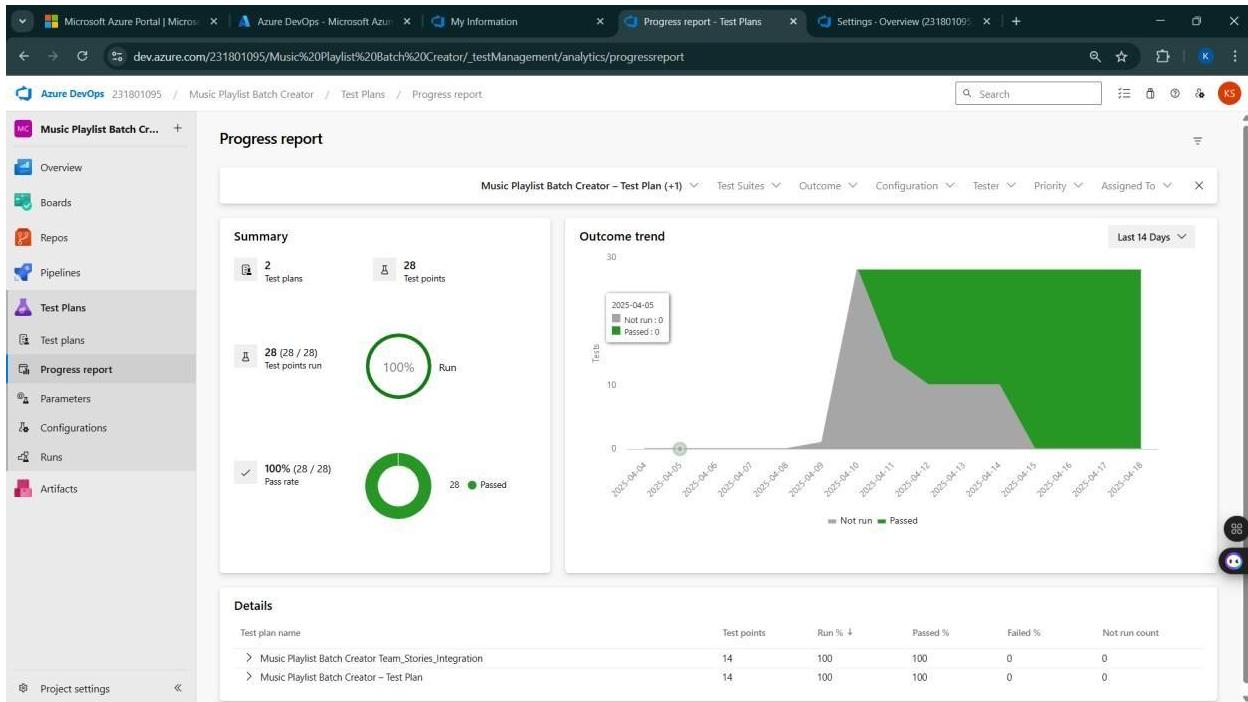
Step no.	Result	Title
1.	Passed	Open Chrome Browser Expected Result Browser should open in a new tab
2.	Passed	Paste the URL (https://127.0.0.1/new.html) Expected Result App should load with new articles
3.	Failed	System should show a dropdown with list of countries Produce Report

- Assigning bug to the developer and changing state

The screenshot shows a detailed view of a test run in Azure DevOps. The test case is titled "92 TB01 - Playlist loading spinner keeps spinning indefinitely on poor network". A specific step, "1. Failed Disconnect from internet", has failed. The expected result was "Network is offline", but the actual result was "Comments: Page Not loading". The error message "Unable to load playlists" is also noted. The test configuration is set to Windows 10. The "Planning" section shows the story points as 14, priority as 2, and severity as 3 - Medium. The "Deployment" section indicates the work item is updated by Karthick S 33m ago. The "Development" section shows a link to an Azure Repos branch. The "Related Work" section lists a task for "TC06 - Playlist Loading Failure" with status "Design". The "System Info" section shows the test was run by "KARTHICK-231801095/Music-Microsoft Azure" on 10-Apr-2025.

9. Progress report

The screenshot displays the "Progress report" section of the Azure DevOps interface. It shows a summary of 14 test points, 14 test plans, and 14 test runs, with a 100% pass rate. The "Outcome trend" chart tracks the progress over the last 14 days, showing a significant increase in passed tests starting around April 10th. The "Details" section provides a breakdown of the test plan, listing individual test cases like "TS01 - User Login" and "TS02 - View Playlists" along with their respective outcomes.



10. Changing the test template

All processes

Name	Description	Team projects
Basic	This template is flexible for any process and great for teams getting started with Azure DevOps.	0
Agile	This template is flexible and will work great for most teams using Agile planning methods, including those pract...	0
Scrum	This template is for teams who follow the Scrum framework.	0
CMMI	This template is for more formal projects requiring a framework for process improvement and an auditable reco...	0

The screenshot shows the 'All processes' list in the Azure DevOps Settings - Process page. The 'Processes' tab is selected. The list includes:

Name	Description	Team projects
Basic	This template is flexible for any process and great for teams getting started with Azure DevOps.	0
Agile	This template is flexible and will work great for most teams using Agile planning methods, including those pract...	0
Scrum	This template is for teams who follow the Scrum framework.	0
CMMI	This template is for more formal projects requiring a framework for process improvement and an auditable reco...	0

The screenshot shows the 'All processes' list in the Azure DevOps Settings - Process page. The 'Processes' tab is selected. A new entry, '231801095 Agile (default)', has been added under the Agile category. The list now includes:

Name	Description	Team projects
Basic	This template is flexible for any process and great for teams getting started with Azure DevOps.	0
Agile	This template is flexible and will work great for most teams using Agile planning methods, including those pract...	0
231801095 Agile (default)		1
Agile Plus		0
Scrum	This template is for teams who follow the Scrum framework.	0
CMMI	This template is for more formal projects requiring a framework for process improvement and an auditable reco...	0

11. View the new test case template

The screenshot shows the 'Add a field to Test Case' dialog box overlaid on the Azure DevOps settings interface. The dialog box has a 'Definition' tab selected, showing the option to 'Create a field'. The 'Name' field is set to 'Type' and the 'Type' field is set to 'Text (single line)'. A 'Description' field is also present. At the bottom right of the dialog box are 'Add field' and 'Cancel' buttons.

The screenshot shows the 'All processes' page in Azure DevOps. The 'Projects' tab is selected under 'Work item types'. A new work item type named 'Music Playlist Batch Creator' is listed, with a detailed description below it. The left sidebar shows the 'Process' section selected under 'Pipelines'.

The screenshot shows the Azure DevOps Settings - Process page. The URL in the address bar is dev.azure.com/231801095/_settings/process?type_id=231801095Agile.TestCase&process-name=231801095%20Agile&_a=layout. The page title is "All processes > 231801095 Agile > Test Case". The left sidebar is titled "Organization Settings" and includes sections for General, Security, Boards, Pipelines, and Process. The "Process" section is currently selected. The main content area shows a "Steps" field with the placeholder "Text (multiple lines)". To the right, there are sections for "Custom" (Type: Text (single line)), "Recent test results", "Deployment", "Development", "Related Work", and "Status". A "Search" bar is at the top right, and a "K5" button is visible.

Result:

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

EXP NO: 9	LOAD TESTING AND PERFORMANCE TESTING
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Aim:

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

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

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

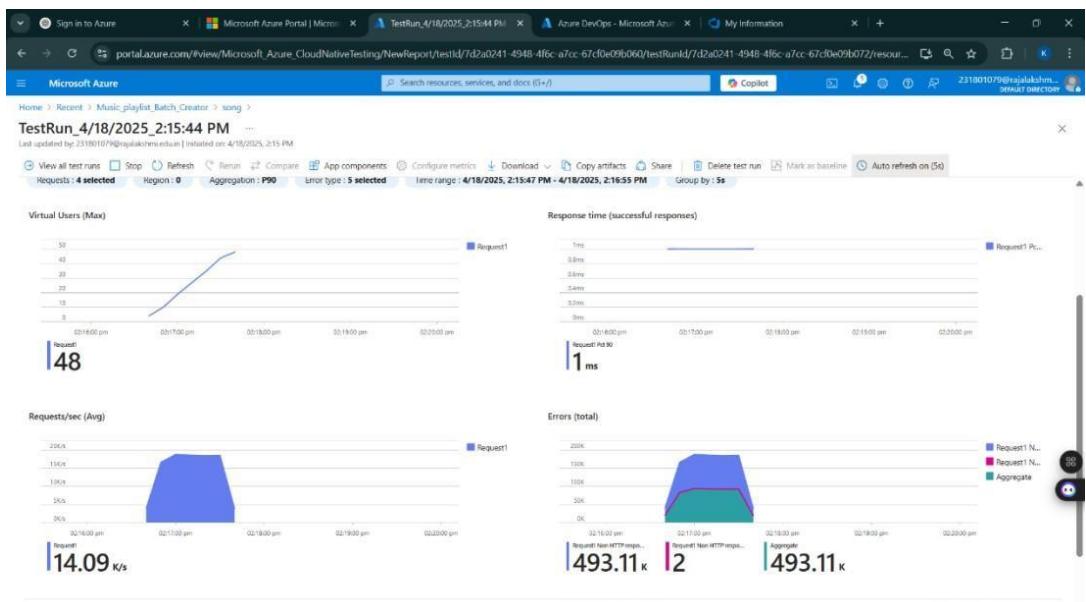
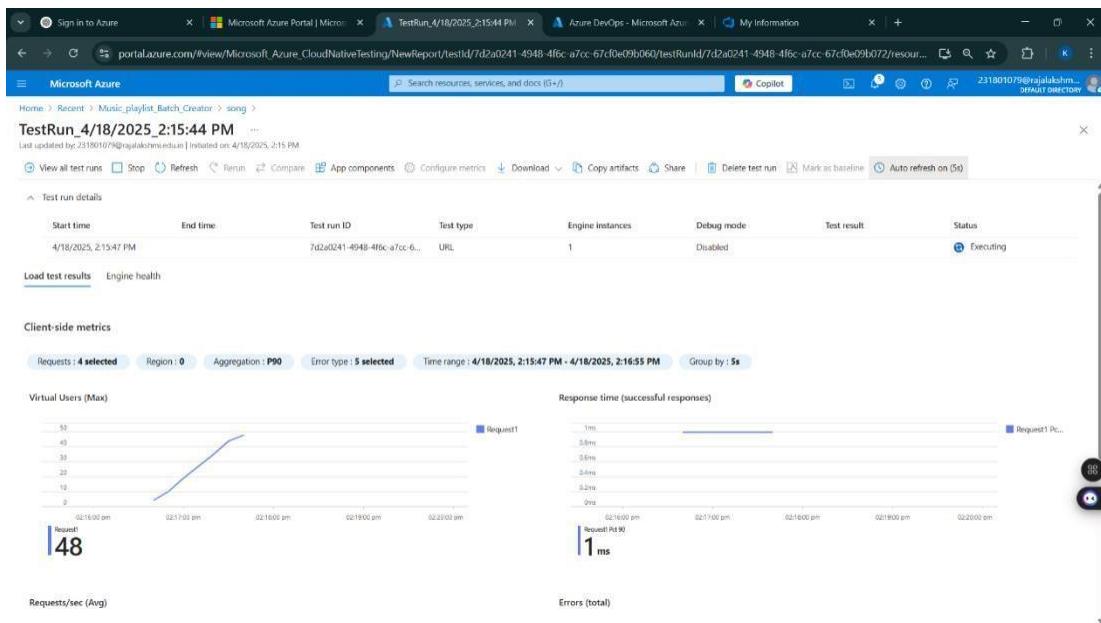
1. Sign in to Azure Portal
Go to <https://portal.azure.com> and log in.
2. Create the Resource
 - o Go to *Create a resource* → Search for “Azure Load Testing”.
 - o Select Azure Load Testing and click Create.
3. Fill in the Configuration Details
 - o *Subscription*: Choose your Azure subscription.
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

Steps to Create and Run a Load Test:

Once your resource is ready:

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

Load Testing



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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

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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.

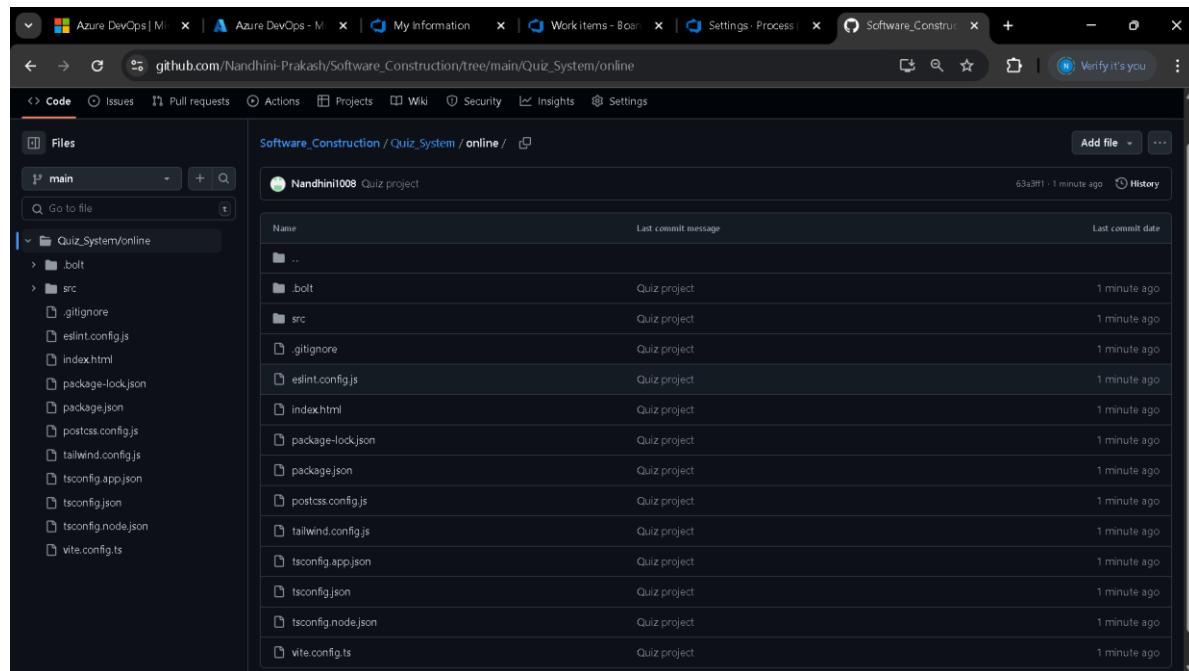
EXP NO: 10

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



The screenshot shows a GitHub repository named 'Quiz_System/online'. The left sidebar displays the project structure with files like .bolt, src, .gitignore, eslint.config.js, index.html, package-lock.json, package.json, postcss.config.js, tailwind.config.js, tsconfig.app.json, tsconfig.json, tsconfig.node.json, and vite.config.ts. The main area shows a list of files under the 'main' branch, all committed by 'Nandini1008' just one minute ago, with messages like 'Quiz project' and file names like .., .bolt, src, .gitignore, eslint.config.js, index.html, package-lock.json, package.json, postcss.config.js, tailwind.config.js, tsconfig.app.json, tsconfig.json, tsconfig.node.json, and vite.config.ts.

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.