

EXP NO: 1

AZURE DEVOPS ENVIRONMENT SETUP

Aim:

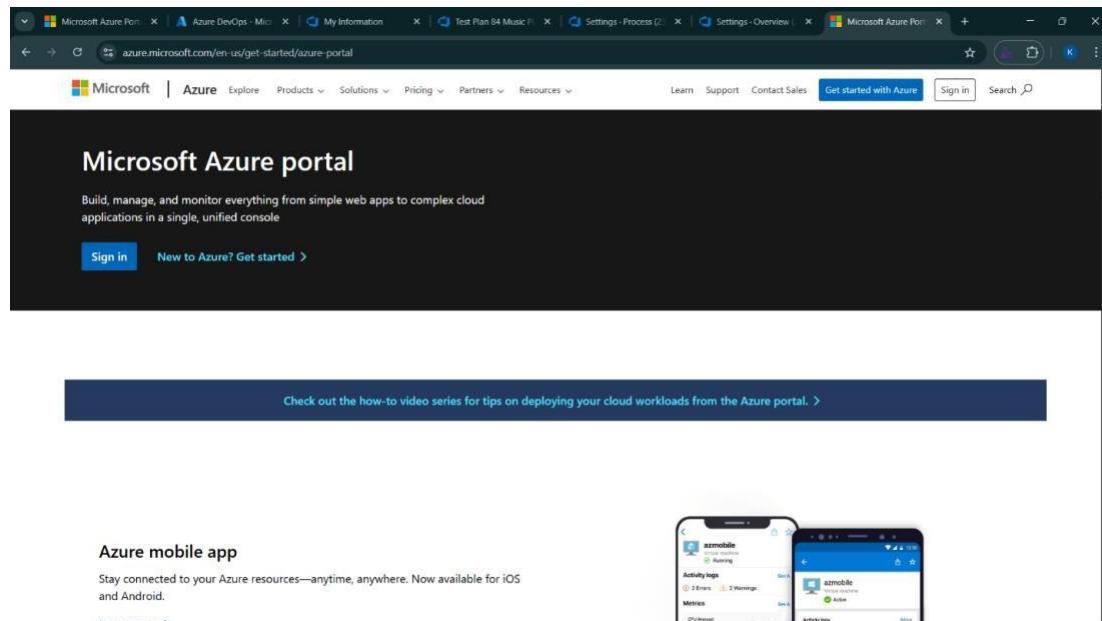
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

INSTALLATION

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

Sign in using your Microsoft account credentials.

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



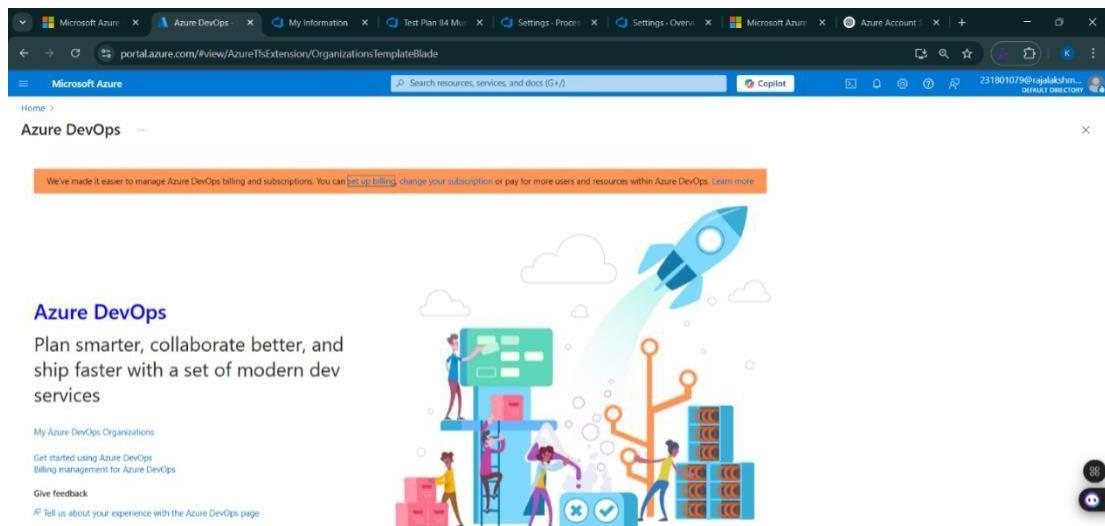
2. Azure home page

The screenshot shows the Microsoft Azure home page. At the top, there's a search bar and a Copilot button. Below the header, the "Azure services" navigation bar includes icons for Create a resource, Azure DevOps organizations, Subscriptions, Dashboard hub, Resource groups, Azure Load Testing, Quickstart Center, Azure AI services, Kubernetes services, and More services. The "Resources" section shows a table of recent resources, with "Music" listed as an Azure Load Testing resource last viewed 3 days ago, and "Music_playlist_Batch_Creator" as a Resource group last viewed 3 days ago. The "Navigate" section includes links for Subscriptions, Resource groups, All resources, and Dashboard. The "Tools" section features Microsoft Learn, Azure Monitor, Microsoft Defender for Cloud, and Cost Management. The "Useful links" section includes links for Microsoft Learn, Azure mobile app, and other Azure services like Static Web App, Build Agents for Azure DevOps, and InfluxDB Cloud.

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

This screenshot is similar to the previous one but with a search bar containing the text "DevOps". The search results are displayed below the navigation bar, showing items like "Azure Native New Relic Service", "Managed DevOps Pools", "Azure DevOps organizations", and "Azure Native Dynatrace Service". The rest of the page layout remains the same, including the "Azure services" bar, resource table, and tool links.

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



Result:

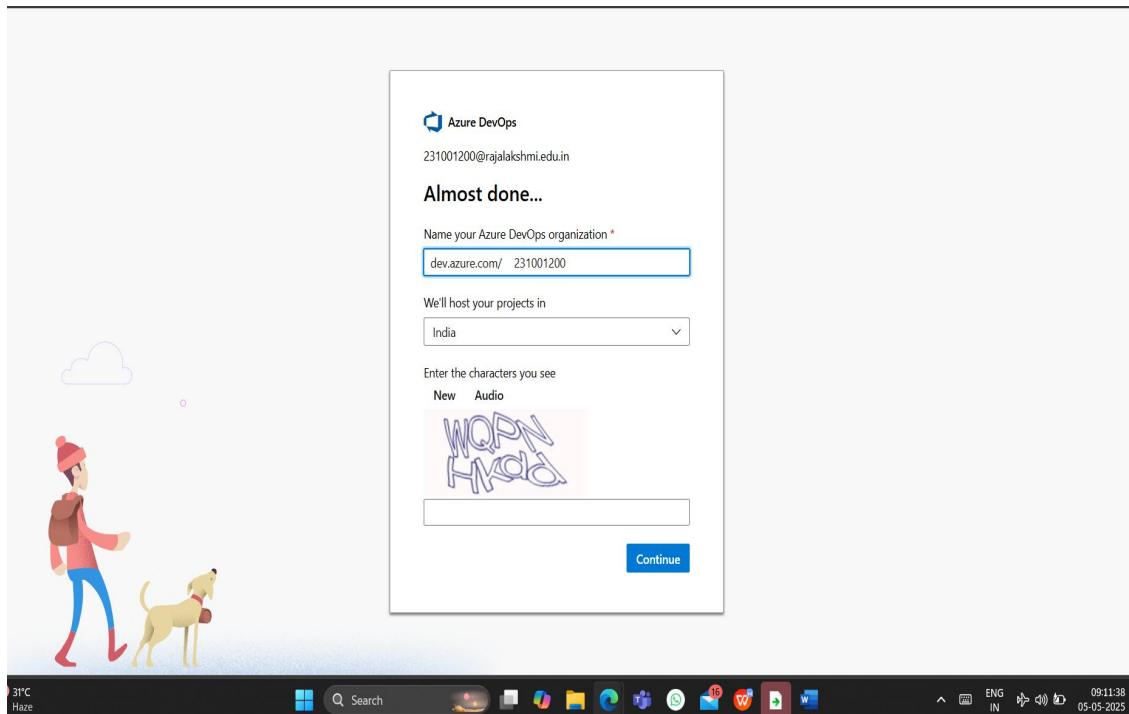
Successfully accessed the Azure DevOps environment and created a new organization through the Azure portal.

EXP NO: 2

AZURE DEVOPS PROJECT SETUP AND USER STORY MANAGEMENT

Aim:

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



1. Create An Azure Account

2. Create the First Project in Your Organization

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

- b. On the organization's **Home page**, click on the **New Project** button.
- c. Enter the project name, description, and visibility options:

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

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

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

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

Create new project

X

Project name *

E-Commerce product uploaders

Description

Visibility



Public

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



Private

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

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

^ Advanced

Version control

Git

Work item process

Agile

Cancel

Create

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

The screenshot shows the Azure DevOps Organizations dashboard. At the top, there's a navigation bar with a back arrow, forward arrow, refresh button, and a URL field containing <https://aex.dev.azure.com/me?mkt=en-IN>. To the right of the URL is the Microsoft logo, the user name "ShyamNarayanan", and a "Sign out" link. Below the navigation bar is a large circular profile picture with a purple background and a white letter "S". To the right of the profile picture, the user's name "ShyamNarayanan" and email "231001200@rajalakshmi.edu.in" are displayed, along with a "Edit profile" button. Below this information is a section titled "Visual Studio Dev Essentials" with a brief description: "Get everything you need to build and deploy your app on any platform." and a "Use your benefits" link. On the right side of the dashboard, there's a list of "Azure DevOps Organizations" under the heading "dev.azure.com/231001200 (Owner)". The list includes a project named "shyam" and another named "E-Commerce product uploader". There's also a "New project" link. To the right of the projects is an "Actions" section with a "Create new organization" button and a "Open in Visual Studio" link. At the bottom of the dashboard, there's a link to "srimanviyasan.visualstudio.com (Member)".

4. Project dashboard

The screenshot shows the Azure DevOps project dashboard for "E-Commerce Product Uploader". The left sidebar contains a navigation menu with items like "Overview", "Summary", "Dashboards", "Wiki", "Boards", "Repos", "Pipelines", "Test Plans", and "Artifacts". The "Summary" item is currently selected. The main content area has a title "E-Commerce Product Uploader" and a sub-section "About this project". The "About this project" section contains a description of the platform: "The E-Commerce Product Uploader Platform is a modular, scalable web application that allows sellers to upload, manage, and sell their products online, while providing customers a streamlined shopping experience. It is designed to support a multi-vendor architecture, robust order management, user personalization, and admin-level control over platform-wide operations." Below this, there are sections for "Goals & Objectives" and a list of objectives: "Enable sellers to easily upload and manage products, variants, categories, and discounts.", "Allow users to browse, search, and purchase products with intuitive cart and wishlist features.", "Support admins in overseeing platform operations, product approvals, and user management.", "Provide seamless order tracking, payment processing, and review mechanisms for customer satisfaction.", and "Ensure modular architecture for maintainability and scalability." To the right of the "About this project" section are two cards: "Project stats" (which shows 0 work items) and "Members" (which lists four members represented by purple circles with letters S, S, SP, and SS).

5. To manage user stories:

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

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

The screenshot shows the Azure Boards interface. The left sidebar includes options like Overview, Boards, Work items, Boards, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The main area displays the 'E-Commerce Product Uploader Team' backlog. The backlog table has columns for Order, Work Item Type, Title, State, Effort, Business Area, and Priority. Epics include 'Product Management & Catalog Setup' and 'Shopping, Checkout & Order Management'. Features under these epics include 'Cart Management', 'Discount Handling', 'Payment Integration', 'Order Management (User Side)', 'Order Management (Seller/Admin Side)', 'Order Details & Breakdown', 'User Engagement & Personalization', 'Wishlist Management', 'Product Reviews & Ratings', 'Personalization & Recommendations', and 'User Account Management'. The right side of the screen shows a 'Planning' board with two iterations: 'Iteration 217-02-2025 - 17-03-2025' and 'Iteration 3'. Both iterations show 10 tasks assigned.

The screenshot shows the Microsoft sign-in page. At the top, there is a search bar, a Microsoft logo, and a 'Sign out' link. Below the search bar is a large purple circular profile picture with a white letter 'S' in the center. To the right of the profile picture, the name 'Shyam Narayanan' is displayed in bold, along with the email address '231001200@rajalakshmi.edu.in'. There are also links for 'My Microsoft account' and 'Switch directory'. At the bottom of the page, there is a button labeled 'Sign in with a different account' next to a user icon.

Result:

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

EXP NO: 3

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

Aim:

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

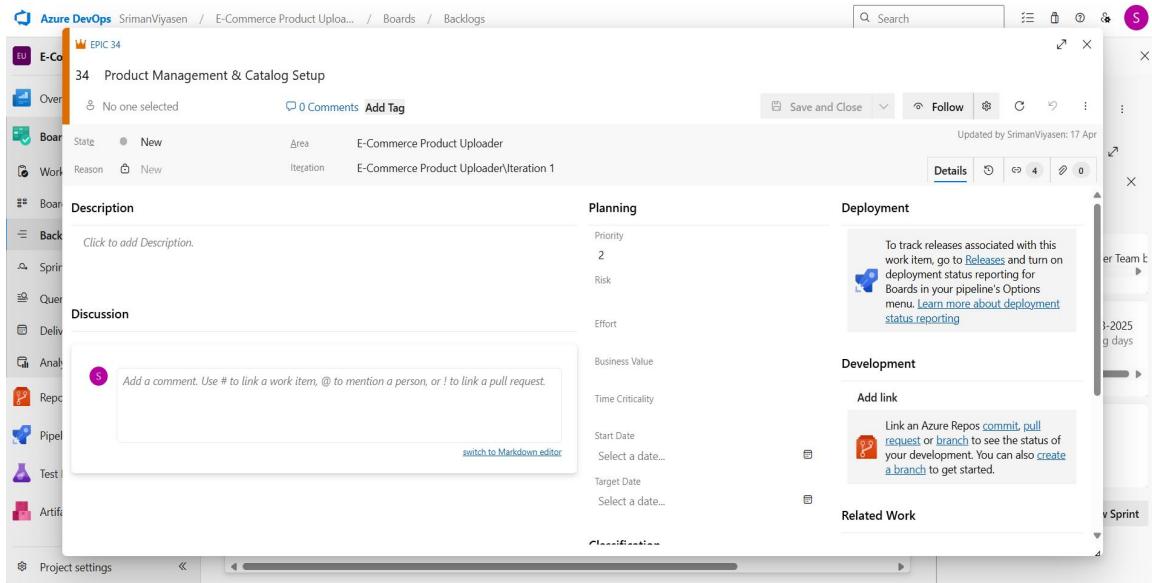
Create Epic, Features, User Stories, Task

The screenshot shows the Azure DevOps Boards Backlog view for the 'E-Commerce Product Uploader Team'. On the left, the navigation sidebar includes 'Overview', 'Boards', 'Work items', 'Backlogs' (selected), 'Sprints', 'Queries', 'Delivery Plans', 'Analytics views', 'Repos', 'Pipelines', 'Test Plans', 'Artifacts', and 'Project settings'. The main area displays a hierarchical backlog structure under 'Backlog' tab. It lists two Epics: 'Product Management & Catalog Setup' and 'Shopping, Checkout & Order Management'. Each Epic contains several Feature-level items. To the right, there are sections for 'Planning' (with a timeline for 'Iteration 217-02-2025 - 17-03-2025' and 'Iteration 3'), 'Deployment' (with a note about tracking releases), 'Development' (with a note about linking to Azure Repos), and 'Related Work'.

1. Fill in Epics

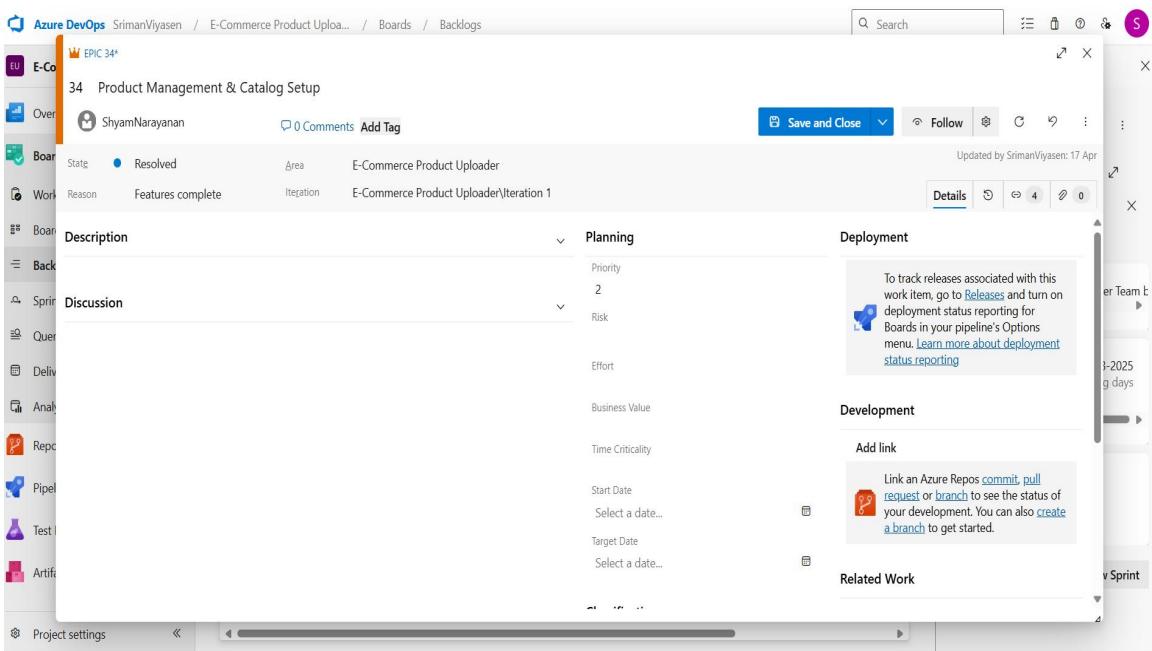
The screenshot shows the detailed view of an Epic work item titled '34 Product Management & Catalog Setup'. The top bar indicates it's an 'EPIC 34'. The work item details include: Status: New; Area: E-Commerce Product Uploader; Iteration: E-Commerce Product Uploader\Iteration 1. The 'Description' section is empty. The 'Planning' section shows Priority: 2, Risk: Low, and Effort: 13. The 'Deployment' section has a note about tracking releases. The 'Development' section has a note about linking to Azure Repos. The 'Related Work' section is empty. The bottom bar shows 'Updated by SrimanViyasen: 17 Apr' and a 'Save and Close' button.

2. Fill in Features



A screenshot of the Azure DevOps interface showing the creation of a new backlog item. The item is titled "34 Product Management & Catalog Setup". The "State" is set to "New". The "Area" is "E-Commerce Product Uploader" and the "Iteration" is "E-Commerce Product Uploader\Iteration 1". The "Description" field contains placeholder text: "Click to add Description." The "Discussion" field has a comment from user "Sri" asking for a comment. The "Planning" section shows priority set to 2 and risk set to 1. The "Deployment" section includes a note about tracking releases and a link to Releases. The "Development" section includes a note about linking to Azure Repos and a link to Create a branch. The "Related Work" section is currently empty.

3. Fill in User Story Details



A screenshot of the Azure DevOps interface showing the update of the backlog item. The "State" is now "Resolved" and the "Reason" is "Features complete". The "Discussion" field now contains a comment from user "ShyamNarayanan" asking for a comment. The "Planning" section remains the same. The "Deployment" section includes a note about tracking releases and a link to Releases. The "Development" section includes a note about linking to Azure Repos and a link to Create a branch. The "Related Work" section is currently empty.

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 E – Commerce Product Uploader Project.

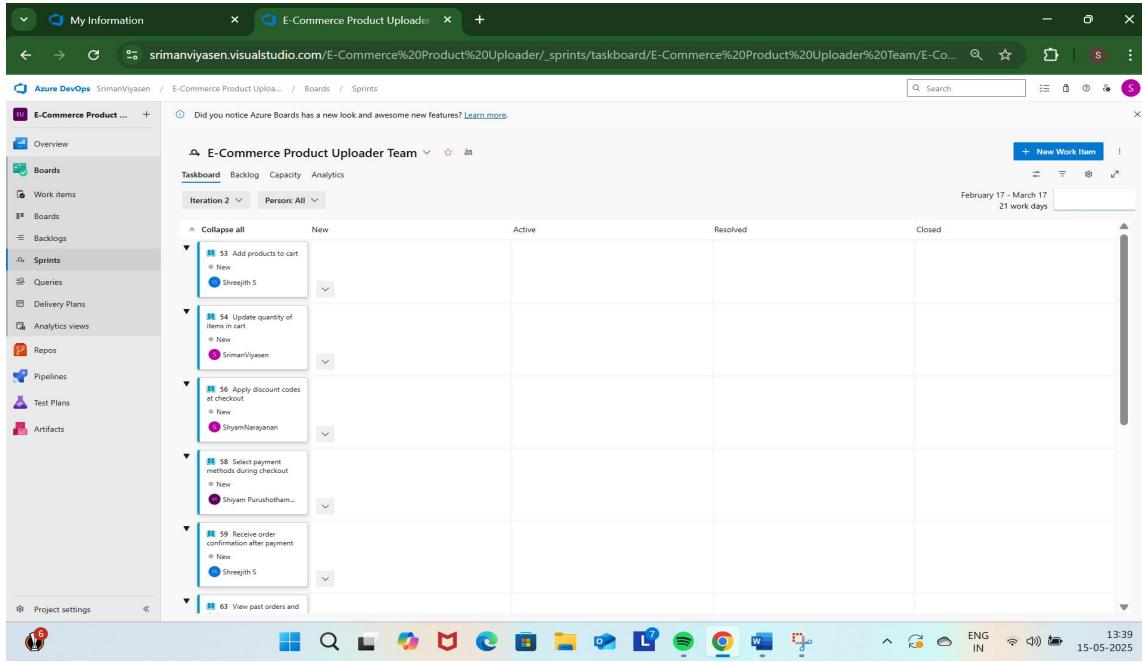
Sprint Planning:

Sprint 1

The screenshot shows the Azure DevOps Taskboard for the E-Commerce Product Uploader project. The backlog is displayed for Iteration 1. The work items listed are:

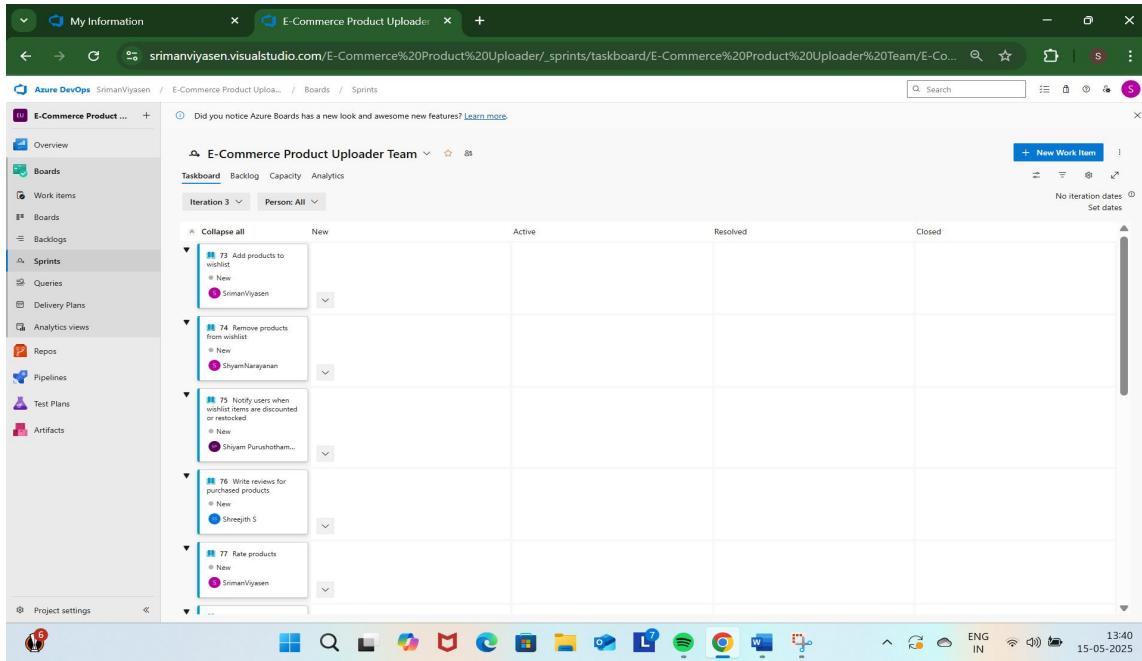
- 37. Create and manage product categories. Assigned to SrimanViyasen.
- 38. Assign products to one or multiple categories. Assigned to ShyamNarayanan.
- 39. Filter products by category. Assigned to Shyam Purushotham.
- 41. Upload a new product with title, images, and description. Assigned to Shreeraj S.
- 42. Set stock quantity and SKU for each product. Assigned to SrimanViyasen.

Sprint 2



A screenshot of the Azure DevOps Boards interface for the E-Commerce Product Uploader team. The left sidebar shows navigation options like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays a Taskboard for Iteration 2. The backlog is organized into columns: New, Active, Resolved, and Closed. Several work items are listed under the 'New' column, each with a title, status, and assignee. A search bar at the top right and a toolbar with various icons are visible.

Sprint 3



A screenshot of the Azure DevOps Boards interface for the E-Commerce Product Uploader team. The left sidebar shows navigation options like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays a Taskboard for Iteration 3. The backlog is organized into columns: New, Active, Resolved, and Closed. Several work items are listed under the 'New' column, each with a title, status, and assignee. A search bar at the top right and a toolbar with various icons are visible. A message at the top right indicates 'No iteration dates Set dates'.

Result:

The Sprints are created for the E – Commerce Product Uploader Project.

EXP NO: 5

POKER ESTIMATION

Aim:

Create Poker Estimation for the user stories - E – Commerce Product Uploader Project.

Poker Estimation

The screenshot shows the Azure DevOps interface for creating a work item. On the left, there's a sidebar with project navigation links like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays a work item for an EPIC titled 'Shopping, Checkout & Order Management'. The work item details include:

- State:** Resolved
- Reason:** Features complete
- Area:** E-Commerce Product Uploader
- Ideation:** E-Commerce Product Uploader/Iteration 1

The work item has a description section with a placeholder 'Click to add Description.' and a discussion section with a placeholder 'Add a comment. Use # to link a work item, @ to mention a person, or / to link a pull request.' Below these sections are planning, deployment, development, and related work fields. The deployment field includes a note about tracking releases. The development field includes a note about linking to Azure Repos. The related work field lists several child work items, such as '52 Cart Management' and '55 Discount Handling'.

Result:

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

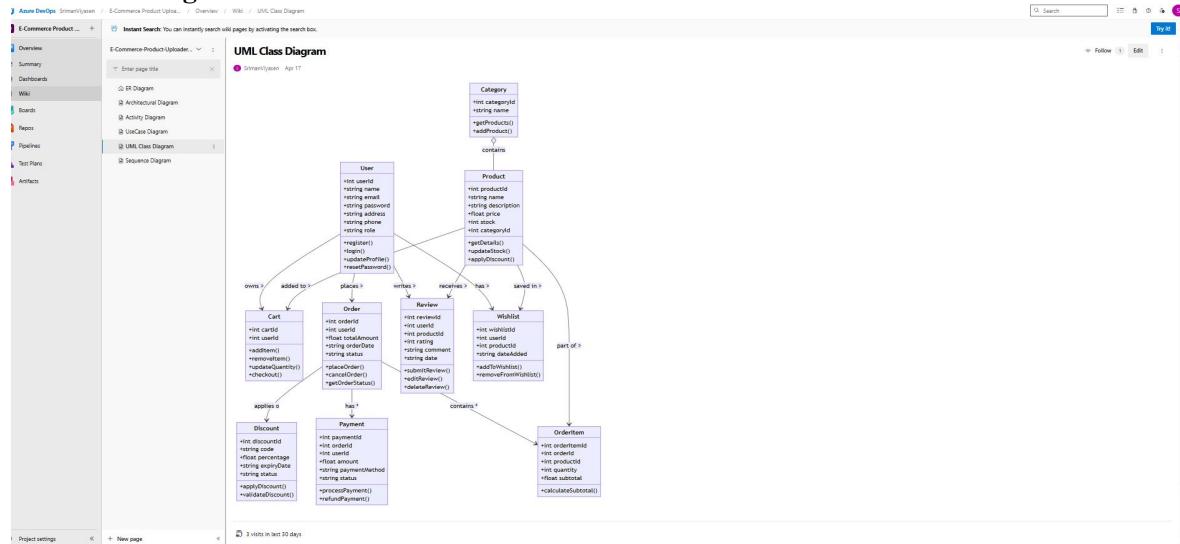
EXP NO: 6

DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE

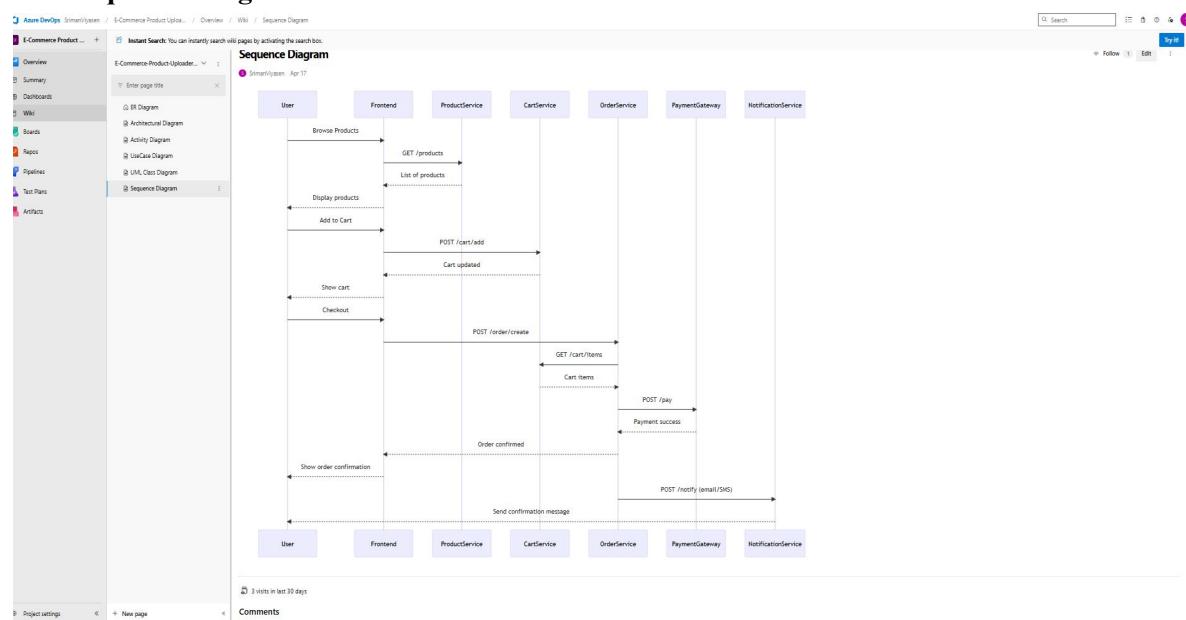
Aim:

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 – Commerce Product Uploader.

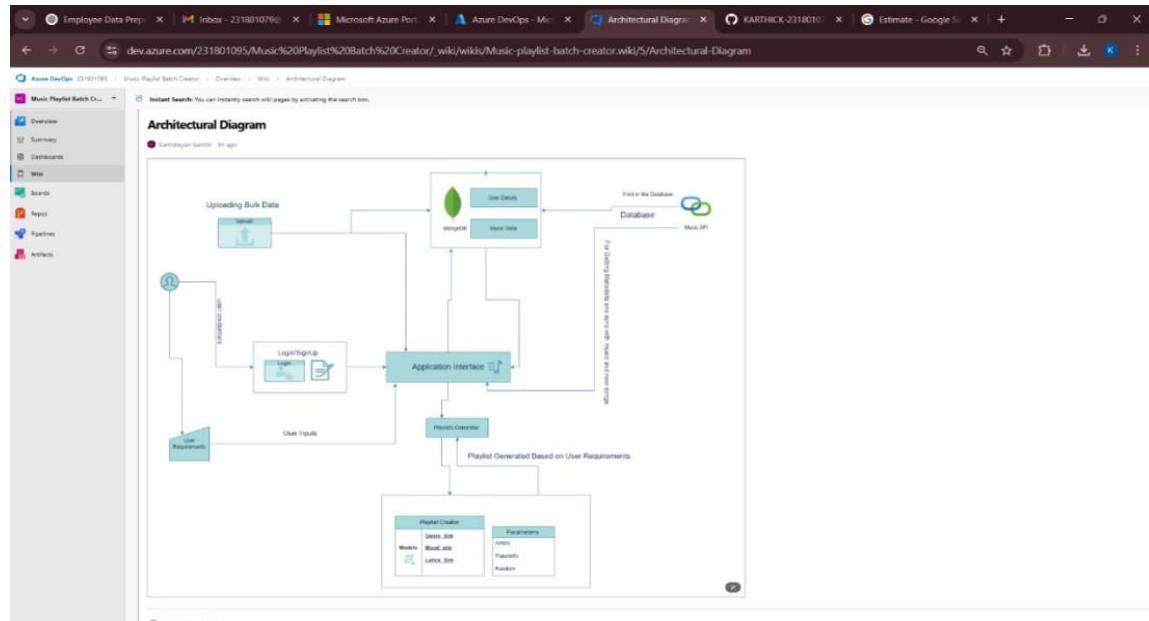
EXP NO: 7

DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE

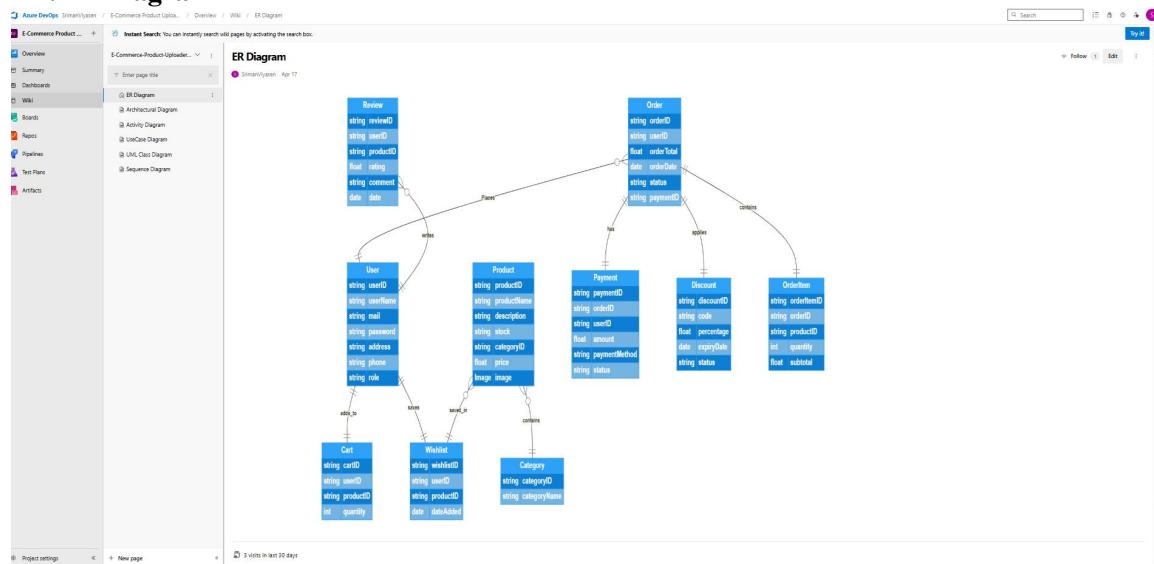
Aim:

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 E – Commerce Product Uploader.

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
- Product Upload & Management
- Image Upload & Handling
- Status Workflow & Approval
- Audit Logging & Inventory Initialization

2. Define User Interactions

- Each test case simulates a real user behaviour (e.g., logging in, uploading product details, adding images).

3. Design Happy Path Test Cases

- Focused on validating that all features function as expected under normal conditions.
- Example: User logs in successfully

4. Design Error Path Test Cases

- Simulate negative or unexpected scenarios to test robustness and error handling.
- Example: Login fails with invalid credentials.

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 - Register New User Successfully).
- Helps in quick identification and linking to user stories or features.

7. Separate Test Suites

- Grouped test cases based on functionality (e.g., Login, Upload a new product with title, images, and description).

- 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

New Test Plan

Name *

Sprint 1

Area Path *

E-Commerce Product Uploader

Iteration *

E-Commerce Product Uploader

Create Cancel

2. Test suite

Test Plan 89 E-Commerce Prod...

E-Commerce Prod... Current

May 14 - May 21
75% run, 100% passed. View report

Test Suites

Filter suites by name

E-Commerce Product Uploader

New Suite Assign configurations Export Assign testers to run all tests Import test suites

TS01 - User Login (ID: 96)

Define Execute Chart

Test Cases (4 items)

New Test Case Order

<input type="checkbox"/> Title	
<input type="checkbox"/> TCO1 - Register New User Successfully	1
<input type="checkbox"/> TCO2 - Register with Existing Email	2
<input type="checkbox"/> Static suite Select Credentials	3
<input type="checkbox"/> Requirement based suite Incorrect Credentials	4
<input type="checkbox"/> Query based suite	

3. Test case

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

E-Commerce Product Uploader – Test Plans

USER STORIES

- As a new user, I want to register and log in securely so that I can access my account and make purchases. (ID: 94).
- As a seller, I want to upload a product with title, images, and description (ID: 41).
- As a user, I want to update the quantity of items in my cart (ID: 54).
- As a user, I want to add products to my cart (ID: 53).
- As a user, I want to filter products by category (ID: 39).

Test Suites

Test Suit: TS01 - User Login (ID: 96)

1. TC01 - Register New User Successfully :

- **Action:**
 - Navigate to Registration Page.
 - Enter valid name, email, and strong password.
 - Click on "Register".
- **Expected Results:**
 - User is registered and redirected to login or dashboard.
- **Type:** Happy Path

2. TC02 - Register with Existing Email:

- **Action:**
 - Navigate to Registration Page.
 - Try registering with an email that's already in use.
 - Click on "Register".
- **Expected Results:**
 - Error message like "Email already exists."
- **Type:** Error Path

3. TC03 – Login with Correct Credentials

- **Action:**
 - Navigate to Login Page.
 - Enter valid email and password.
 - Click "Login".

- **Expected Results:**
 - User is authenticated and redirected to dashboard.
- **Type:** Happy Path

4. TC04 – Login with Wrong Password

- **Action:**
 - Navigate to Login Page.
 - Enter wrong password or email.
 - Click on "Login".
- **Expected Results:**
 - Error message like "Invalid email or password."
- **Type:** Error Path

Test Suit: TS02 - Upload a new product with title, images, and description (ID: 100)

1. TC05 – Upload Product with Valid Inputs

- **Action:**
 - Navigate to the Seller Dashboard.
 - Click on "Add New Product".
 - Enter a valid title
 - Upload 1–5 valid images.
 - Enter a meaningful product description.
 - Click "Submit" or "Save".
- **Expected Results:**
 - Product is saved and visible in product listing.
- **Type:** Happy Path

2. TC06 – Upload with Missing Title

- **Action:**
 - Leave the title field empty.
 - Fill in the other fields correctly.
 - Click "Submit".
- **Expected Results:**
 - Error message displayed: "Title is required ."
- **Type:** Error Path

3. TC07 – Verify Uploaded Product Appears in Catalog

- **Action:**
 - Upload a product.
 - Navigate to "My Products" or the storefront.
- **Expected Results:**
 - Product is visible with correct title, thumbnail image, and description.
- **Type:** Happy Path

4. TC08 – Image Upload Preview

- **Action:**
 - Upload a valid image.
- **Expected Results:**
 - Preview of the image is shown before submitting.
- **Type:** Happy Path

Test Suit: TS03 - Cart Item Quantity Management (ID: 107)

1. TC09 – Increase Quantity in Cart

- **Action:**
 - Add an item to the cart.
 - Navigate to the cart page.
 - Click the "+" button next to the quantity.
- **Expected Results:**
 - Quantity increases by 1, and subtotal/total update accordingly.
- **Type:** Happy Path

2. TC10 – Decrease Quantity in Cart

- **Action:**
 - Ensure quantity is greater than 1.
 - Click the "-" button next to the item.
- **Expected Results:**
 - Quantity decreases by 1, and subtotal/total update correctly.
- **Type:** Happy Path

3. TC11 – Set Quantity to Zero

- **Action:**
 - Manually set quantity to 0 or press "-" until 0 is reached.
- **Expected Results:**
 - Item disappears from cart, and total recalculates.
- **Type:** Happy Path

4. TC12 – Subtotal and Total Update Instantly

- **Action:**
 - Change the quantity of an item.
 - Observe subtotal for that item and total at bottom.
- **Expected Results:**
 - Subtotal and total should update immediately without page refresh
- **Type:** Happy Path

Test Suit: TS04 - Add products to cart (ID: 112)**1. TC13 – Generate Playlist Based on Various Categories**

- **Action:**
 - Go to the product listing/catalogue page.
 - Click on “Add to Cart” for any visible product
- **Expected Results:**
 - The product is added to cart.
 - Cart count increases.
 - Confirmation message appears.
- **Type:** Happy Path

2. TC14 – Add Product from Product Detail Page

- **Action:**
 - Click on a product to view details.
 - Click the “Add to Cart” button.
- **Expected Results:**
 - Product is added to cart, and user is notified.
- **Type:** Happy Path

Test Suit: TS05 - Filter products by category (ID: 115)**1. TC15 – Filter Products by Single Category**

- **Action:**
 - Navigate to the product listing page.
 - Select a category from the sidebar or dropdown (e.g., "Electronics").
- **Expected Results:**
 - Only products in the "Electronics" category are displayed.
- **Type:** Happy Path

2. TC16 – Filter Products by Multiple Categories

- **Action:**
 - Select multiple categories (e.g., "Electronics" and "Accessories").
- **Expected Results:**
 - Products from both selected categories are displayed.
- **Type:** Happy Path

Test Cases

The screenshot shows the Azure DevOps Test Plan interface. A test case titled "104 TC06 - Upload with Missing Title" is displayed. The test case details include:

- Owner:** SrimanViyasen
- Comments:** 0
- Add Tag:** (button)
- State:** Design
- Area:** E-Commerce Product Uploader
- Reason:** New
- Iteration:** E-Commerce Product Uploader

The "Steps" tab is selected, showing the following steps:

- Leave the title field empty.
- Fill in the other fields correctly.
- Click "Submit".

Expected result: Error message displayed: "Title".

The "Deployment" section contains a note about tracking releases and deployment status reporting.

The "Development" section contains a note about linking to Azure Repos and creating branches.

At the bottom right, the system status bar shows "22:44" and "14-05-2025".

The screenshot shows the Azure DevOps Test Plan interface. A test case titled "97 TC01 - Register New User Successfully" is displayed. The test case details include:

- Owner:** SrimanViyasen
- Comments:** 0
- Add Tag:** (button)
- State:** Design
- Area:** E-Commerce Product Uploader
- Reason:** New
- Iteration:** E-Commerce Product Uploader

The "Steps" tab is selected, showing the following steps:

- Navigate to Registration Page.
- Enter valid name, email, and strong password.
- Click on "Register".
- .

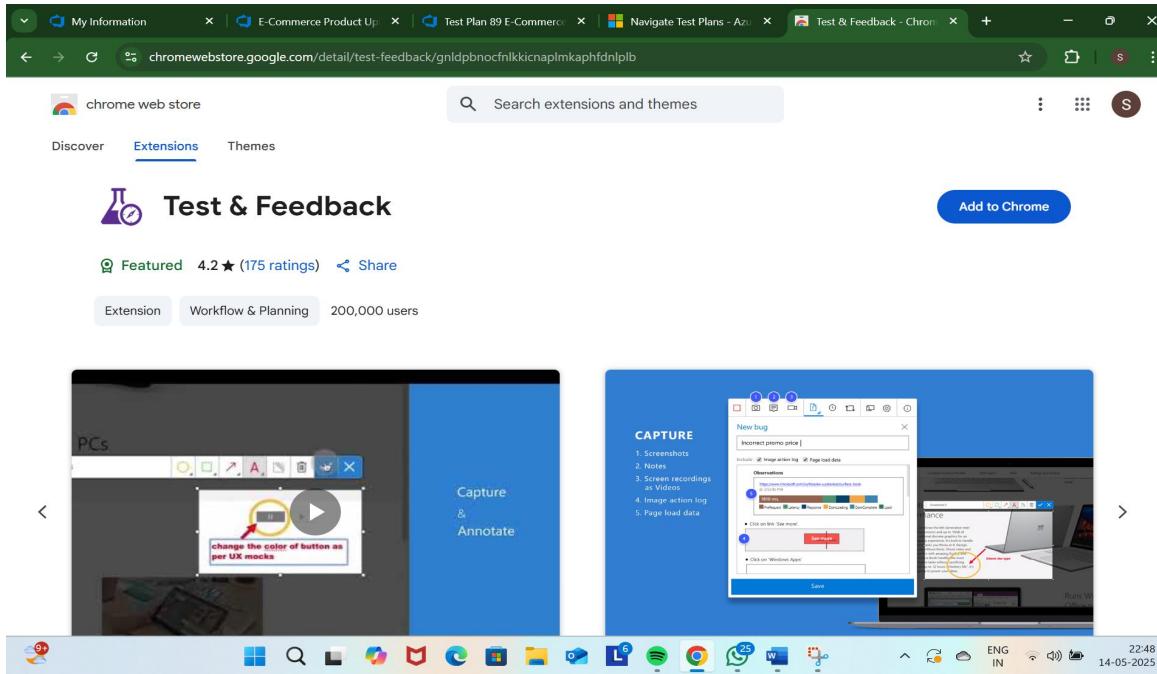
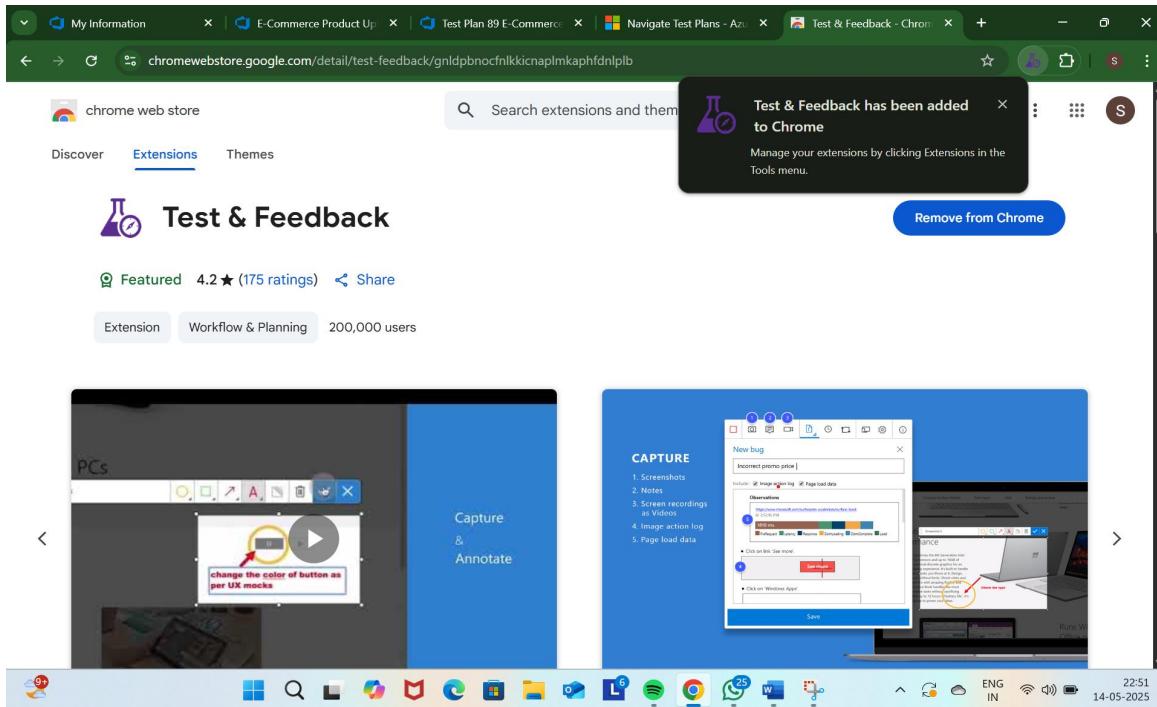
Expected result: User is registered and redirected to dashboard.

The "Deployment" section contains a note about tracking releases and deployment status reporting.

The "Development" section contains a note about linking to Azure Repos and creating branches.

At the bottom right, the system status bar shows "22:44" and "14-05-2025".

4. Installation of test



Test and feedback

Showing it as an extension

The screenshot shows the Azure DevOps interface for an E-commerce product uploader project. The left sidebar is open, showing options like Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Parameters, Configurations, Runs, Artifacts, and Project settings. The 'Test plans' option is selected. The main area displays a 'Test Suites' section with a dropdown menu set to 'Current'. Under 'Test Suites', there is a list of suites: TS01 - User Login (4), TS02 - Upload a new product..., TS03 - Cart Item Quantity..., TS04 - Add products to cart (2), and TS05 - Filter products by ca... . A modal window titled 'Extensions' is overlaid on the screen. It has two sections: 'Full access' and 'No access needed'. In the 'Full access' section, several extensions are listed with checkboxes: AdBlock — block ads across..., McAfee® WebAdvisor, Picture-in-Picture Extension..., Test & Feedback (which is checked), and Wordtune: AI Paraphrasing.... Below these, there is a link to 'Manage extensions'. The status bar at the bottom shows system icons, the date (14-05-2025), and the time (22:52).

5. Running the test cases

The screenshot shows the Microsoft Test Plan application window. The left sidebar displays a navigation tree with 'E-Commerce Product Uploader' selected. Under it, 'Test Suites' are listed: 'TS01 - User Login (4)', 'TS02 - Upload a new product...', 'TS03 - Cart Item Quantity ...', 'TS04 - Add products to cart (2)', and 'TS05 - Filter products by ca...'. The main area is titled 'TS01 - User Login (ID: 96)' and shows 'Test Points (4 items)'. The first item, 'TC01 - Register New User Successfully', is highlighted and has a context menu open. The menu options include 'Run for web application', 'Run for desktop application', and 'Run with options'. Other items in the list include 'TC02 - Register with Existing Email', 'TC03 - Login with Correct Credentials', and 'TC04 - Login with Incorrect Credentials'. The status bar at the bottom shows the date as 14-05-2025 and the time as 23:02.

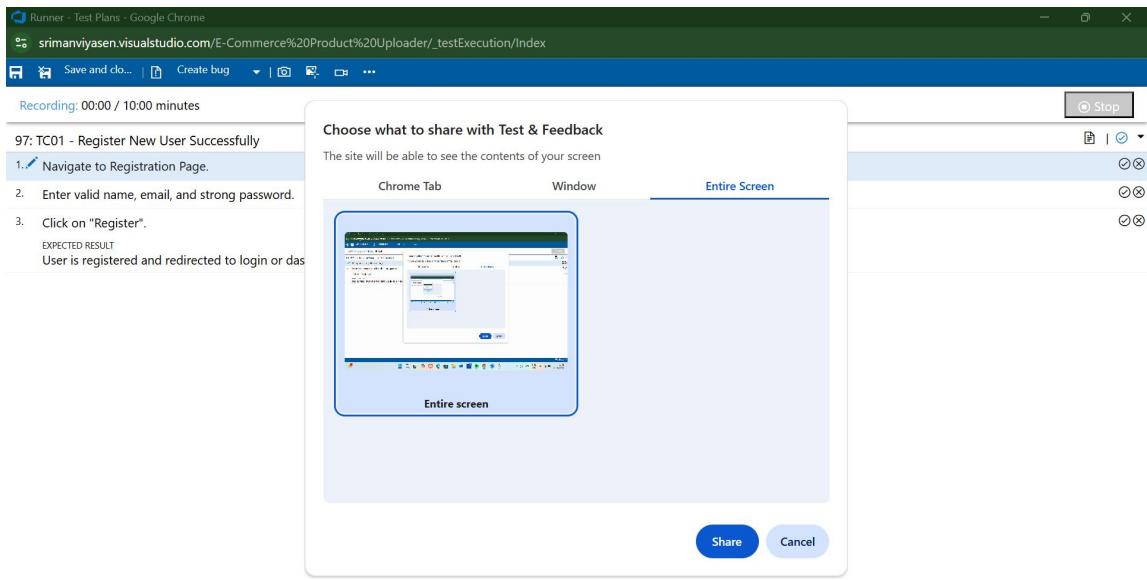
The screenshot shows the 'Runner - Test Plans - Google Chrome' window. It displays the test case '97*: TC01 - Register New User Successfully' with the following steps:

1. Navigate to Registration Page.
2. Enter valid name, email, and strong password.
3. Click on "Register".

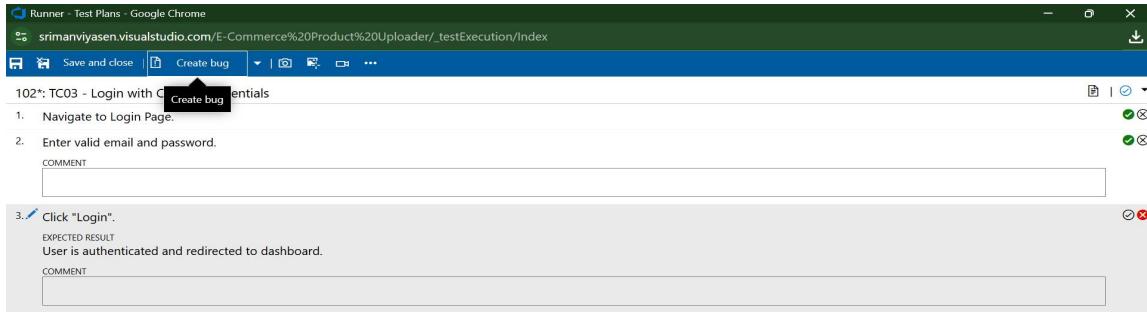
Below the steps, the 'EXPECTED RESULT' is listed: 'User is registered and redirected to login or dashboard.' To the right of the steps, there are three green checkmark icons with small circles next to them, indicating the status of the test steps.



6. Recording the test case



7. Creating the bug



Bug Details:

Title: TB01 - User is not redirected to dashboard after authentication

Category: Unassigned

Comments: 0 comments

Tags: Add tag

State: New

Area: E-Commerce Product Uploader

Reason: New

Iteration: E-Commerce Product Uploader

Repro Steps:

5/14/2025 5:43 PM Bug filed on "TC03 - Login with Correct Credentials"

Step no.	Result	Title
1.	Passed	Navigate to Login Page.
2.	Passed	Enter valid email and password.
3.	Failed	Click "Login".

Expected Result: User is authenticated and redirected to dashboard.

Planning:

- Resolved Reason
- Story Points
- Priority: 2
- Severity: 3 - Medium
- Activity

Deployment:

To track releases associated with this work item, go to Releases and turn on deployment status reporting for Boards in your pipeline's Options menu. Learn more about deployment status reporting

Development:

- Add link
- Link an Azure Repos commit, pull request or branch to see the status of your development. You can also create a branch to get started.

Related Work:



Bug Details:

Title: TB01 - User is not redirected to dashboard after authentication

Category: Unassigned

Comments: 0 comments

Tags: Add tag

State: New

Area: E-Commerce Product Uploader

Reason: New

Iteration: E-Commerce Product Uploader

Environment:

Browser - Name	Google Chrome 136
Browser - Language	en-US
Browser - Height	768
Browser - Width	1296
Browser - User agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36
Operating system - Name	Windows NT 10.0; Win64; x64
Operating system - Architecture	x86_64
Operating system - Processor model	AMD Ryzen 7 8845HS w/ Radeon 780M Graphics
Operating system - Number of processors	16
Memory - Available	4677337088
Memory - Capacity	14806552576
Display - Pixels per inch (X axis)	144
Display - Pixels per inch (Y axis)	144
Display - Device pixel ratio	1.5

Gleek
9|eek_-

System Info:

- Found in Build
- Integrated in Build



8. Test case results

The screenshot shows the Microsoft Test Plan interface. On the left, there's a navigation pane with 'My Information' and 'E-Commerce Product Uploader'. Below that is a 'Test Suites' section with a dropdown menu and a search bar. Under 'E-Commerce Product Uploader', several test suites are listed: 'TS01 - User Login (4)', 'TS02 - Upload a new product...', 'TS03 - Cart Item Quantity ...', 'TS04 - Add products to cart (2)', and 'TS05 - Filter products by ca...'. The 'TS01 - User Login (4)' suite is currently selected. To its right is a detailed view of the 'TS01 - User Login (ID: 96)' test plan. This view includes tabs for 'Define', 'Execute' (which is selected), and 'Chart'. Under 'Test Points (4 items)', four test points are listed: 'TC01 - Register New User Success' (Passed), 'TC02 - Register with Existing Em...' (Not Run), 'TC03 - Login with Correct Creden...' (Passed), and 'TC04 - Login with Incorrect Creden...' (Not Run). The 'TC03' entry is highlighted with a blue border. At the bottom of this panel is a link 'Open execution history for current test point'. The status bar at the bottom right shows the date as 14-05-2025.

9. Test report summary

The screenshot shows the Microsoft Azure Boards interface. The top navigation bar includes 'My Information', 'E-Commerce Product Uploader', 'E-Commerce Product Uploader', 'Navigate Test Plans - Az...', 'Test & Feedback - Chrome', and a '+' button. The main area displays a bug report titled 'BUG 118 TB01 - User is not redirected to dashboard'. The report details include: State: New, Reason: New, Repro Step: Active, Resolved: Closed, Date: 5/14/2022, and Description: '- Login with Correct Credentials'. The 'Planning' section shows: Resolved Reason: E-Commerce Product Uploader, Story Points: 1, Priority: 2, Severity: 3 - Medium, and Activity: Click "Login". The 'Deployment' section provides instructions on tracking releases. The 'Development' section includes a 'Add link' button. The status bar at the bottom right shows the date as 14-05-2025.

- Assigning bug to the developer and changing state.

The screenshot shows the Azure DevOps interface for a bug titled "BUG 118* TB01 - User is not redirected to dashboard". The bug was filed by SbyamNarayanan on 5/14/2025 at 5:42 PM. The bug is currently in the "New" state. The repro steps detail three steps: 1. Passed (Navigate to Login Page), 2. Passed (Enter valid email and password), and 3. Failed (Click "Login"). The expected result is "User is authenticated and redirected to dashboard". The planning section includes fields for Resolved Reason, Story Points, Priority (2), Severity (3 - Medium), and Activity. The deployment section provides instructions to track releases associated with this work item. The development section includes an "Add link" button and a note about linking to Azure Repos. The bottom of the screen shows the Windows taskbar with various pinned icons.

10. Progress report

The screenshot shows the Azure DevOps Progress report interface for the "E-Commerce Product Uploader" project. The left sidebar highlights the "Test Plans" section. The main area displays a summary of test plans and points, showing 1 test plan and 16 test points, with 12 (75%) run and 12 passed. A chart tracks the outcome trend over the last 14 days, showing a significant increase in tests run starting around May 13th. The bottom of the screen shows the Windows taskbar with various pinned icons.

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:

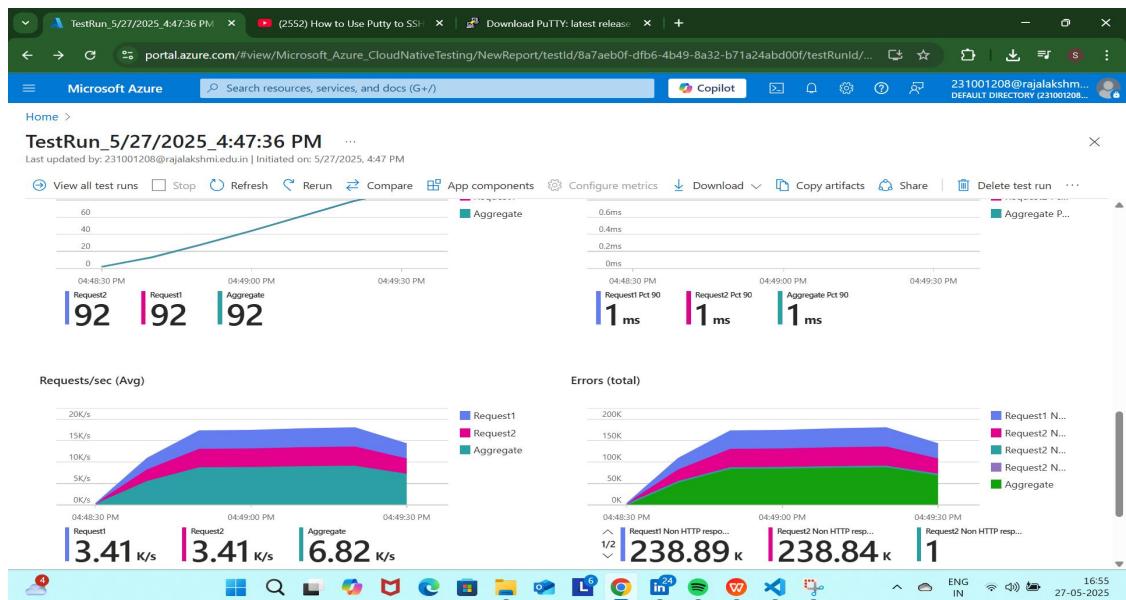
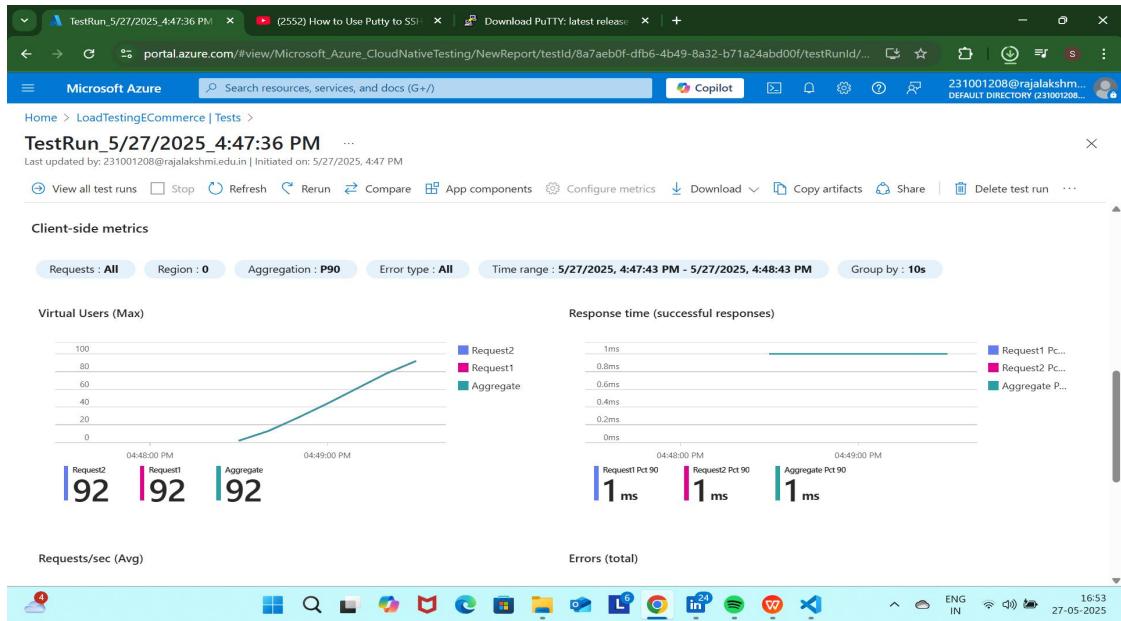
1. Sign in to Azure Portal
Go to <https://portal.azure.com> and log in.
2. Create the Resource
 - o Go to *Create a resource* → Search for “Azure Load Testing”.
 - o Select Azure Load Testing and click Create.
3. Fill in the Configuration Details
 - o *Subscription*: Choose your Azure subscription.
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

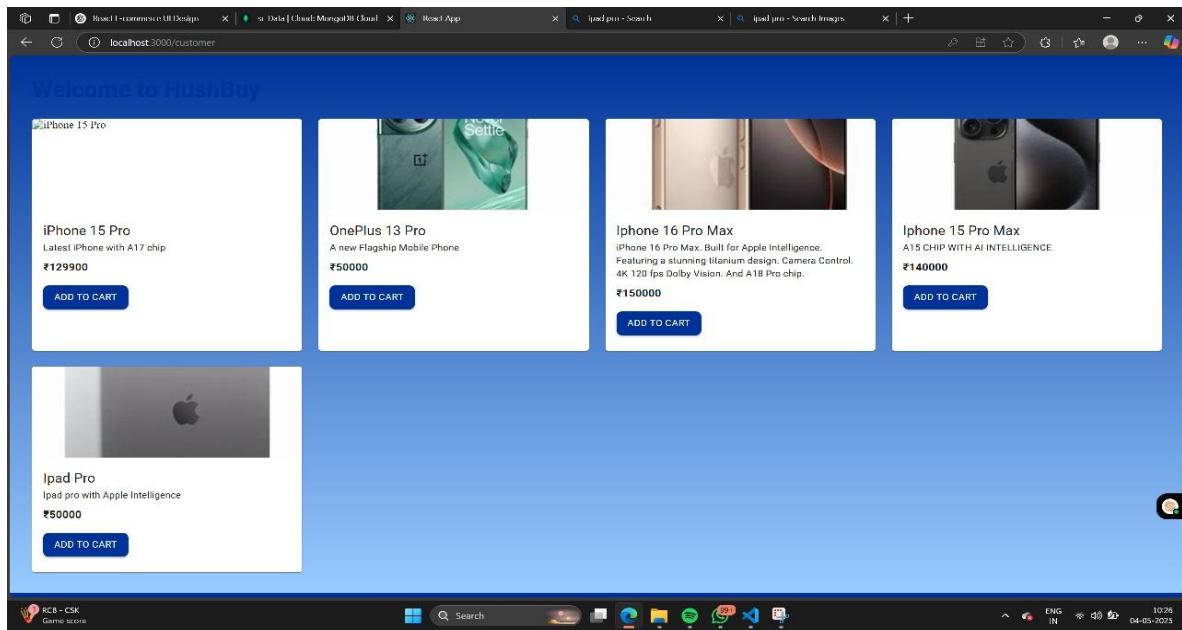
Steps to Create and Run a Load Test:

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





Result:

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

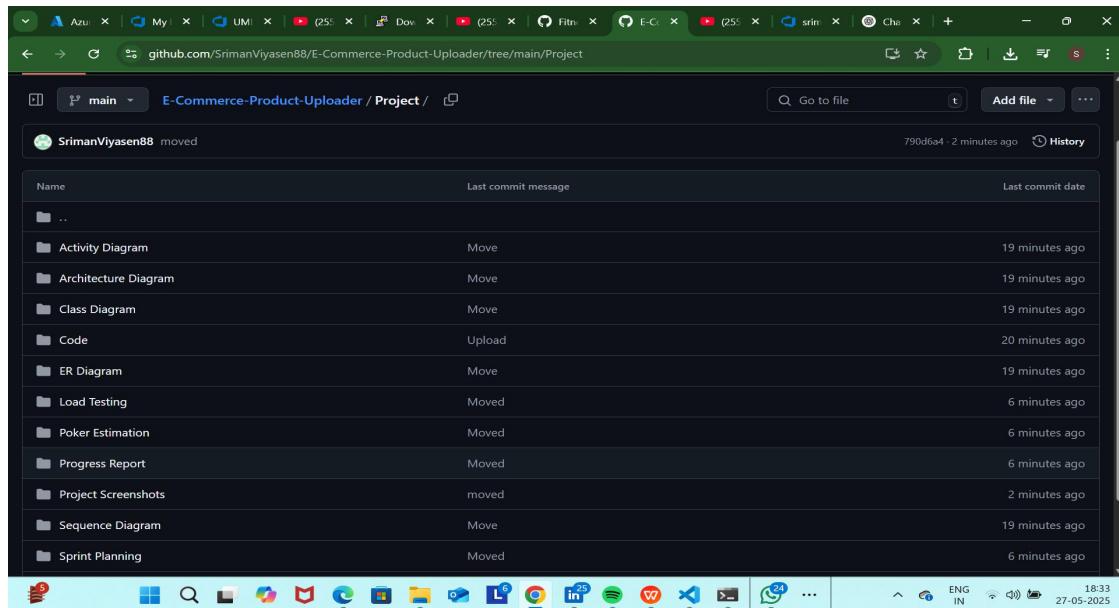
EXP NO: 10

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 'E-Commerce-Product-Uploader / Project'. The main branch is 'main'. A commit by 'SrimanViyasen88' was made 2 minutes ago, with the commit message 'moved'. The commit details a list of files and their actions:

Name	Last commit message	Last commit date
..		
Activity Diagram	Move	19 minutes ago
Architecture Diagram	Move	19 minutes ago
Class Diagram	Move	19 minutes ago
Code	Upload	20 minutes ago
ER Diagram	Move	19 minutes ago
Load Testing	Moved	6 minutes ago
Poker Estimation	Moved	6 minutes ago
Progress Report	Moved	6 minutes ago
Project Screenshots	moved	2 minutes ago
Sequence Diagram	Move	19 minutes ago
Sprint Planning	Moved	6 minutes ago

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 code base.