

EXP NO: 1

AZURE DEVOPS ENVIRONMENT SETUP

Aim:

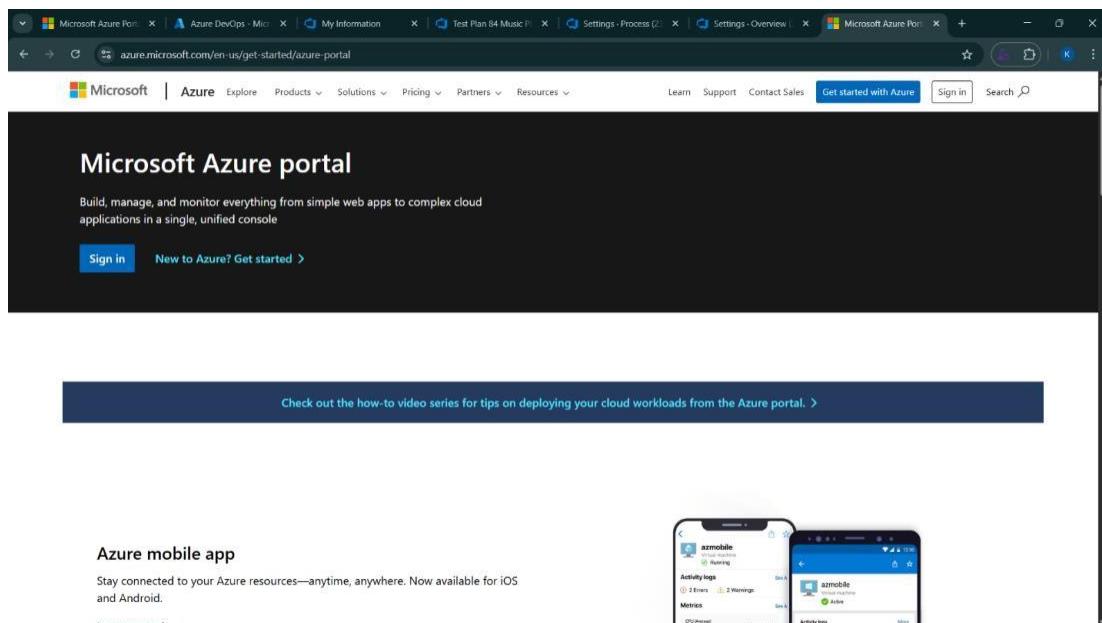
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

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>



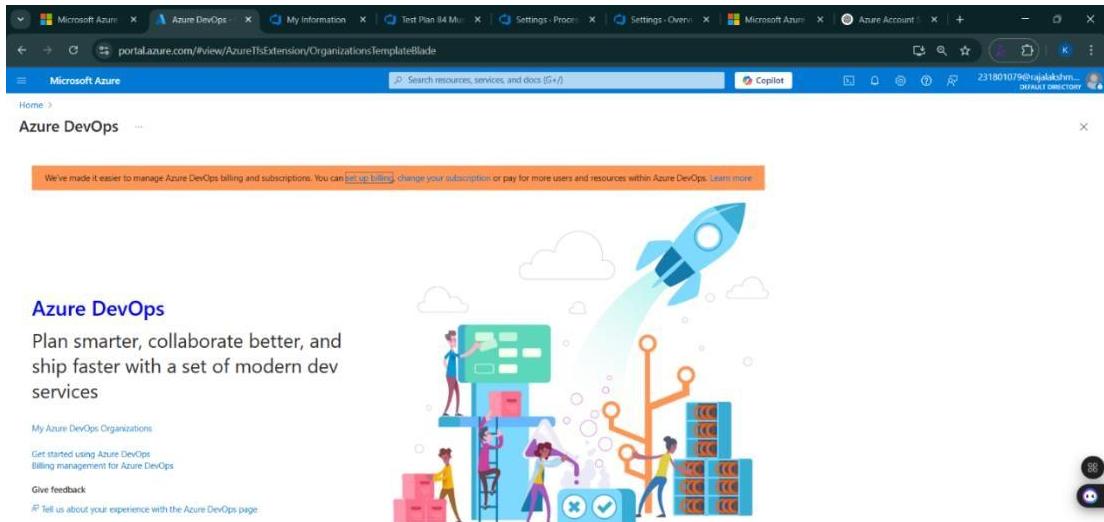
2. Azure home page

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" section features a "Create a resource" button and icons for Azure DevOps organizations, Subscriptions, Dashboard hub, Resource groups, Azure Load Testing, Quickstart Center, Azure AI services, Kubernetes services, and More services. The "Resources" section displays recent and favorite resources, including "Music" (Azure Load Testing) and "Music_playlist_Batch_Creator" (Resource group). The "Navigate" section includes links for Subscriptions, Resource groups, All resources, and Dashboard. The "Tools" section lists Microsoft Learn, Azure Monitor, Microsoft Defender for Cloud, and Cost Management. The "Useful links" section includes Azure mobile app and other Azure services like Static Web App, Build Agents for Azure DevOps, InfluxDB Cloud, and Managed DevOps Pools.

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

The screenshot shows the Microsoft Azure home page with a search bar containing "DevOps". A dropdown menu appears, listing "Services", "Marketplace", and "More (4)". Under "Services", "Azure DevOps organizations" is highlighted. Other options include "Azure Native New Relic Service", "Managed DevOps Pools", and "Azure Native Dynatrace Service". The "Marketplace" section shows "Static Web App", "Build Agents for Azure DevOps", and "InfluxDB Cloud (Official Version)". The "Documentation" section includes links to "DevOps architecture design - Azure Architecture Center", "Secure your Azure DevOps - Azure DevOps", and "Course A2-400T00-A: Designing and Implementing Microsoft DevOps solutions - T...". The "Tools" section lists "Microsoft Entra ID", "Azure DevOps", and "Continue searching in Microsoft Entra ID". The "Useful links" section includes Azure mobile app and other Azure services.

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:

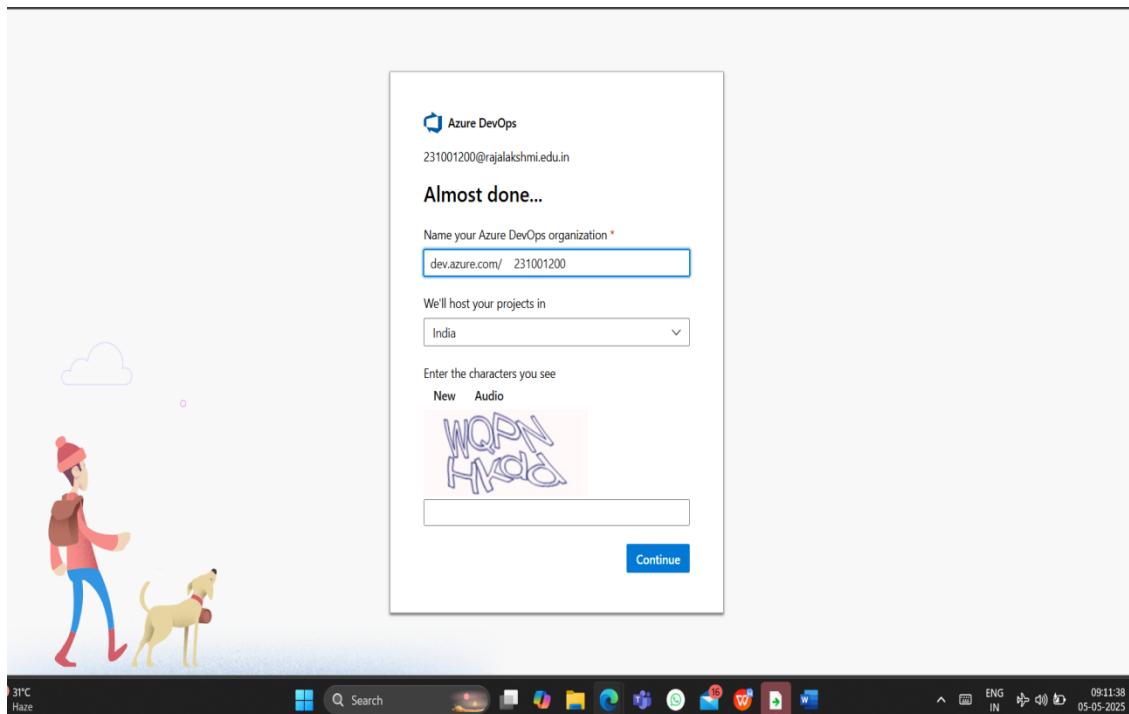
Successfully accessed the Azure DevOps environment and created a new organization through the Azure portal.

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. On the left, there's a user profile for ShyamNarayanan with a large circular icon containing a stylized 'S'. Below the profile are contact details: email (231001200@rajalakshmi.edu.in), location (India), and another email (231001200@rajalakshmi.edu.in). A 'Visual Studio Dev Essentials' section is present with a brief description and a 'Use your benefits' link. On the right, the 'Azure DevOps Organizations' header includes a 'Create new organization' button. Below it, under 'dev.azure.com/231001200 (Owner)', there are sections for 'Projects' (shyam, E-Commerce product uploader) and 'Actions' (Open in Visual Studio). Another user, srimanviyasen.visualstudio.com, is listed as a member.

4. Project dashboard

The screenshot shows the Azure DevOps project overview for 'E-Commerce Product Uploader'. The left sidebar has links for Overview, Summary, Dashboards, Wiki, Boards, Repos, Pipelines, Test Plans, and Artifacts, with 'Summary' being the active tab. The main content area is titled 'E-Commerce Product Uploader' and contains sections for 'About this project' (describing the platform as modular and scalable for sellers to upload products online), 'Goals & Objectives' (listing features like product upload, search, purchase, and admin management), 'Project stats' (showing 0 work items for both boards and work items), and 'Members' (listing four members with purple icons). A top navigation bar includes links for Azure DevOps, SrimanViyasen, E-Commerce Product Uplo..., Overview, and Summary, along with a search bar and various icons.

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.

Order	Work Item Type	Title	State	Effort	Business Area
1	Epic	> 🛍 Product Management & Catalog Setup	● New	10	B1
2	Epic	✓ 🛍 Shopping, Checkout & Order Management	● New	10	B1
	Feature	> 🛒 Cart Management	● New	10	B1
	Feature	> 🛒 Discount Handling	● New	10	B1
	Feature	> 🛒 Payment Integration	● New	10	B1
	Feature	> 🛒 Order Management (User Side)	● New	10	B1
	Feature	> 🛒 Order Management (Seller/Admin Side)	● New	10	B1
	Feature	> 🛒 Order Details & Breakdown	● New	10	B1
3	Epic	✓ 🌟 User Engagement & Personalization	● New	10	B1
	Feature	> 🌟 Wishlist Management	● New	10	B1
	Feature	> 🌟 Product Reviews & Ratings	● New	10	B1
	Feature	> 🌟 Personalization & Recommendations	● New	10	B1
	Feature	> 🌟 User Account Management	● New	10	B1

Shyam Narayanan
231001200@rajalakshmi.edu.in
[My Microsoft account](#)
[Switch directory](#) • • •

Sign in with a different account

Result:

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

EXP NO: 3

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

Aim:

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

Create Epic, Features, User Stories, Task

The screenshot shows the Azure DevOps Boards Backlog view for the 'E-Commerce Product Uploader Team'. The backlog is organized into three main epics:

- Epic 1: Product Management & Catalog Setup**
 - Feature: Category Management
 - Feature: Product Upload & Management
 - Feature: Product Display
 - Feature: Discount Application
- Epic 2: Shopping, Checkout & Order Management**
 - Feature: Cart Management
 - Feature: Discount Handling
 - Feature: Payment Integration
 - Feature: Order Management (Seller/Admin Side)
 - Feature: Order Details & Breakdown
- Epic 3: Finance & Personalization**

The right side of the interface displays the 'Planning' board with two sprints: 'Iteration 217-02-2025 - 17-03-2025' and 'Iteration 3'. Each sprint has a progress bar and a planned effort of 40 hours.

1. Fill in Epics

The screenshot shows the details of an epic work item titled '34 Product Management & Catalog Setup'. The epic is assigned to the 'E-Commerce Product Uploader' team and is currently in the 'New' state. It is part of the 'E-Commerce Product Uploader' area and is scheduled for the 'E-Commerce Product Uploader/Iteration 1' iteration.

Planning: Priority is set to 2, Risk is low, and Effort is listed as 13. Business Value is not specified.

Deployment: A note indicates that releases can be tracked via the 'Releases' tab.

Development: A note suggests linking to Azure Repos for commit, pull request, or branch status.

Related Work: A link to the 'Sprint' board is shown.

2. Fill in Features

A screenshot of the Azure DevOps Backlogs page. A new work item, "34 Product Management & Catalog Setup", has been created under the "E-Commerce" project. The item is categorized as an "EPIC". 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 is empty and includes a note: "Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request." The "Planning" section shows priority set to 2, risk as "Risk", and effort as "Effort". The "Deployment" section provides instructions on tracking releases. The "Development" section includes an "Add link" button and a note about linking to Azure Repos. The "Related Work" section is currently empty.

3. Fill in User Story Details

A screenshot of the Azure DevOps Backlogs page showing the same work item after updates. The "State" is now "Resolved" and the "Reason" is "Features complete". The "Discussion" field is empty. The "Planning" section remains the same. The "Deployment" section still provides release tracking instructions. The "Development" section includes an "Add link" button and a note about linking to Azure Repos. The "Related Work" section is empty.

Result:

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

EXP NO: 4

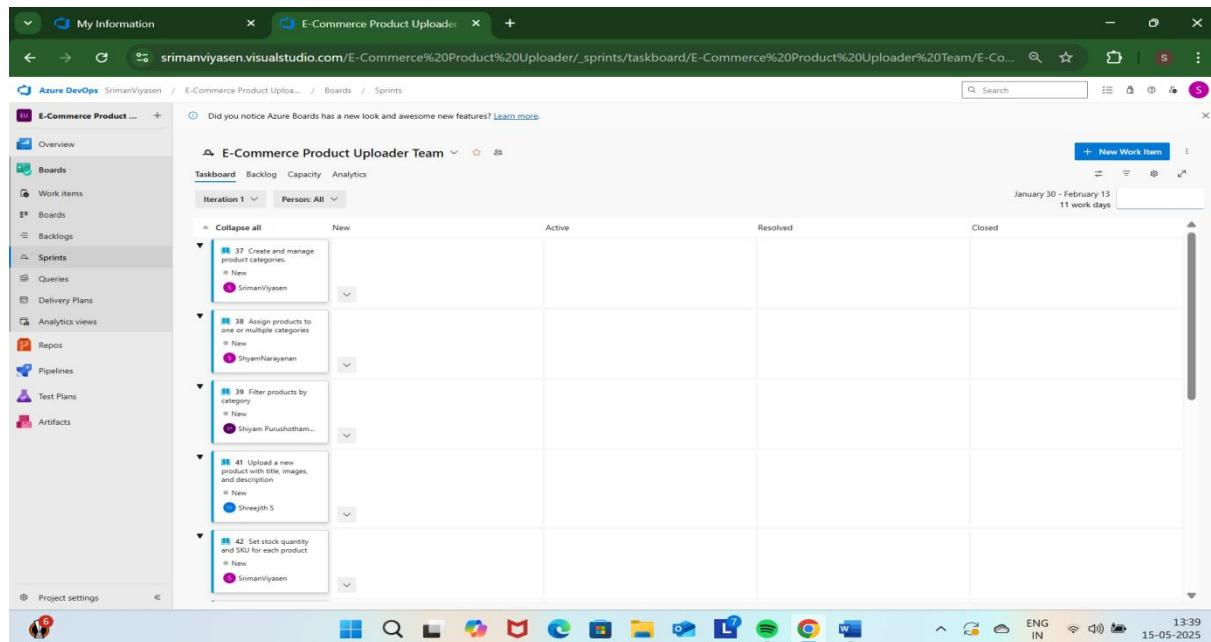
SPRINT PLANNING

Aim:

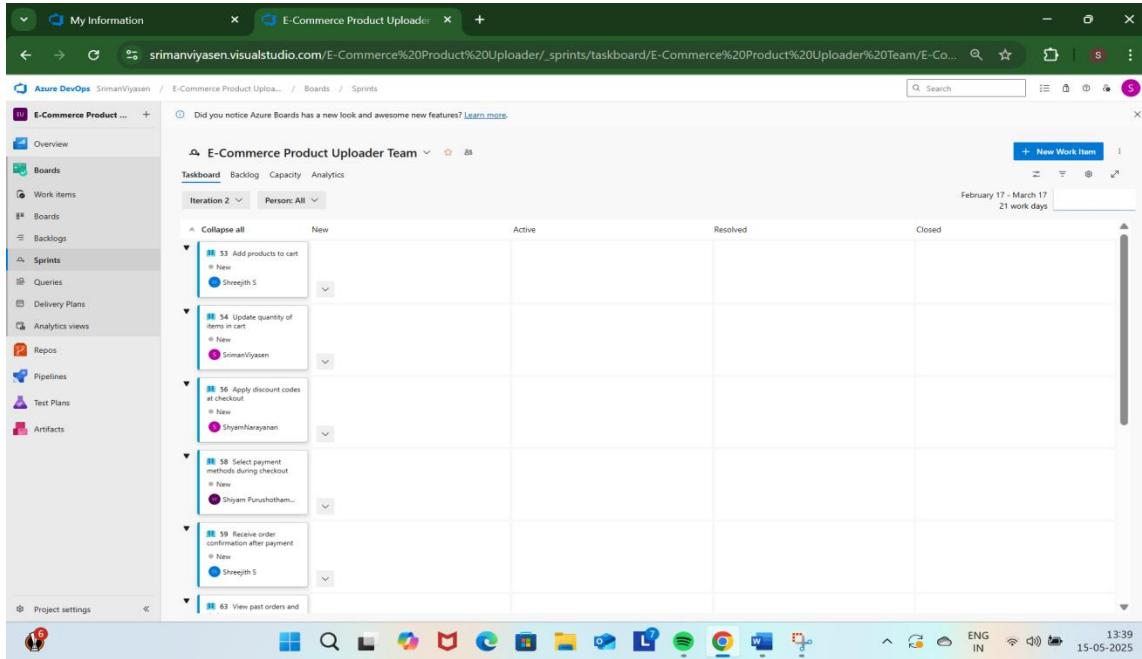
To assign user story to specific sprint for the E – Commerce Product Uploader Project.

Sprint Planning:

Sprint 1



Sprint 2

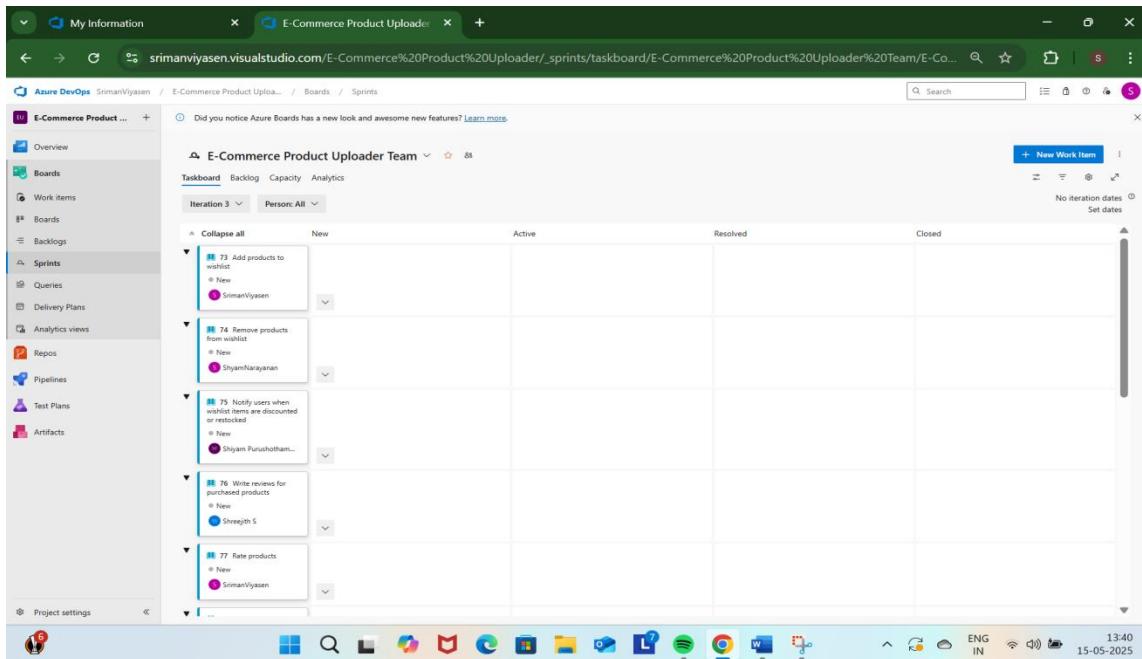


The screenshot shows the Azure DevOps Taskboard for the E-Commerce Product Uploader Team. The backlog is organized into Iteration 2. The tasks listed are:

- #33 Add products to cart (New, Shreerith S)
- #34 Update quantity of items in cart (New, SrimanViyasen)
- #36 Apply discount codes at checkout (New, ShyamNarayanan)
- #38 Select payment methods during checkout (New, Shyam Purushotham...)
- #39 Receive order confirmation after payment (New, Shreerith S)
- #43 View past orders and...

The taskboard interface includes columns for New, Active, Resolved, and Closed tasks. A header bar shows the iteration period as February 17 - March 17 (21 work days). A sidebar on the left provides navigation links for Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts.

Sprint 3



The screenshot shows the Azure DevOps Taskboard for the E-Commerce Product Uploader Team. The backlog is organized into Iteration 3. The tasks listed are:

- #73 Add products to wishlist (New, SrimanViyasen)
- #74 Remove products from wishlist (New, ShyamNarayanan)
- #75 Notify users when wishlist items are discounted or restocked (New, Shyam Purushotham...)
- #76 Write reviews for purchased products (New, Shreerith S)
- #77 Rate products (New, SrimanViyasen)

The taskboard interface includes columns for New, Active, Resolved, and Closed tasks. A header bar shows the iteration period as No iteration dates set. A sidebar on the left provides navigation links for Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts.

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 a project titled "E-Commerce Product Uploader". The current view is "Work Items". A specific work item, "S1 Shopping, Checkout & Order Management", is selected. This is an EPIC level item, indicated by the orange star icon. The item has a status of "Resolved" and a priority of "2". It is assigned to "ShyamNarayanan" and is part of the "E-Commerce Product Uploader" area and iteration "E-Commerce Product Uploader/Iteration 1". The "Description" section contains a placeholder "Click to add Description.". The "Planning" section includes fields for "Business Value", "Time Criticality", "Start Date", "Target Date", and "Classification" (Value area, Business). The "Development" section shows a link to "Add link" and a note about tracking releases. The "Deployment" section provides instructions for tracking releases. The "Discussion" section contains a comment placeholder "Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request." and a "Submit to Markdown editor" button. The "Related Work" section lists several child work items: "52 Cart Management", "53 Discount Handling", "62 Order Details & Breakdown", and "61 Order Management (Seller/Admin Side)".

Result:

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

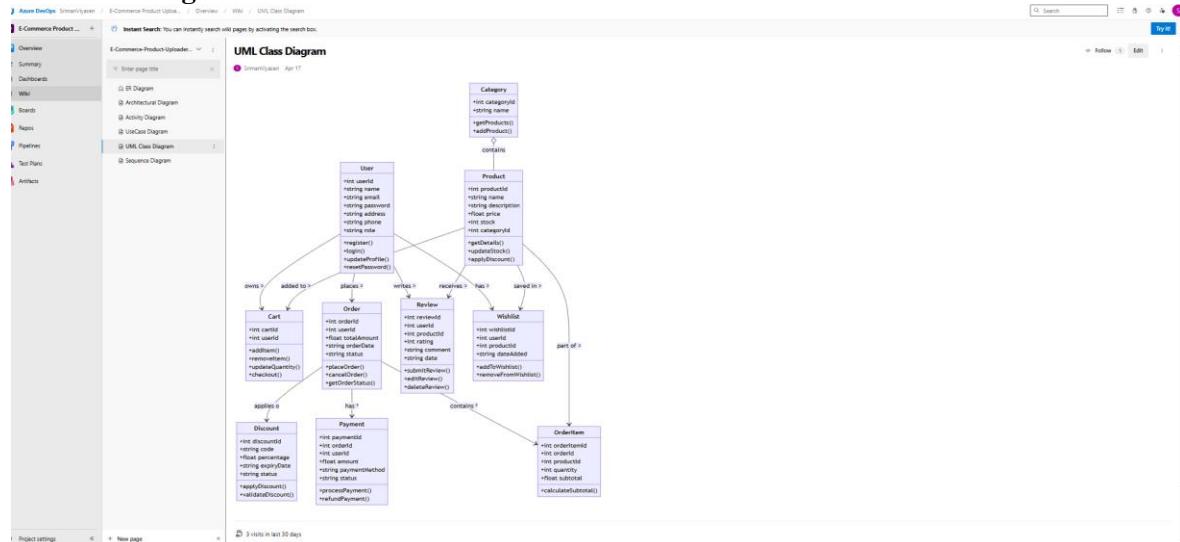
EXP NO: 6

DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE

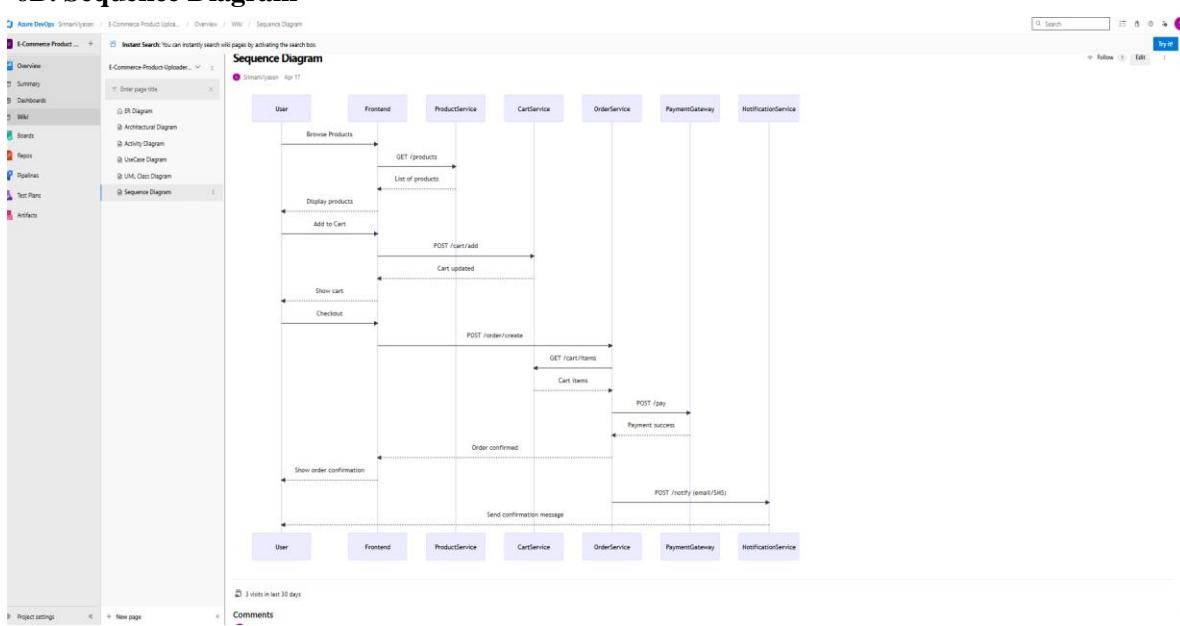
Aim:

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.

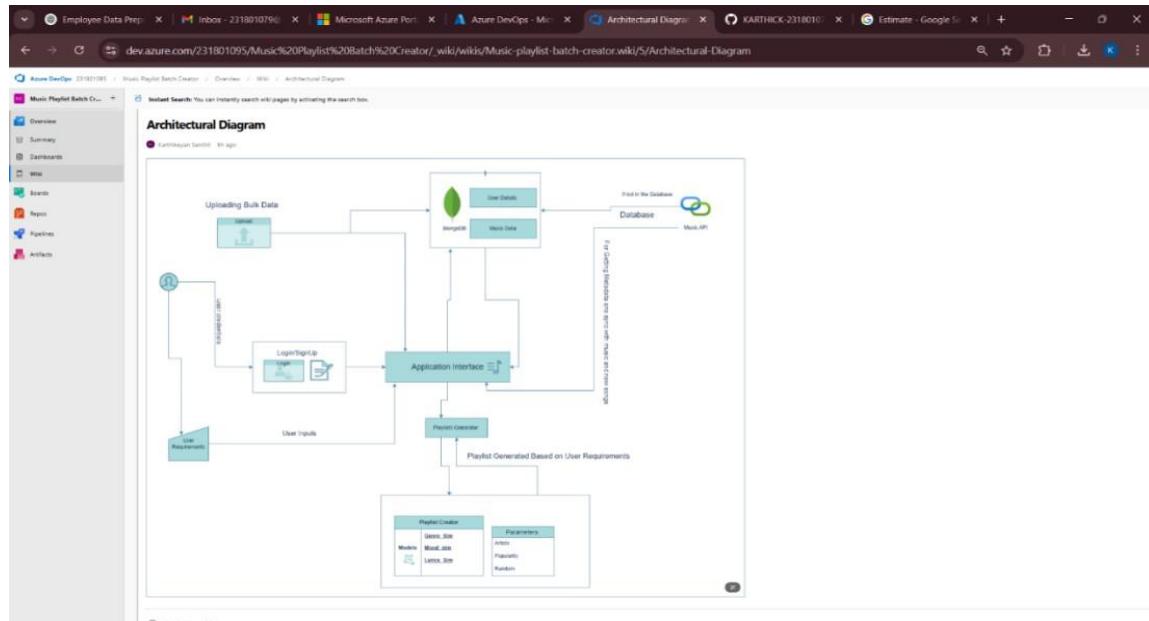
EXP NO: 7

DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE

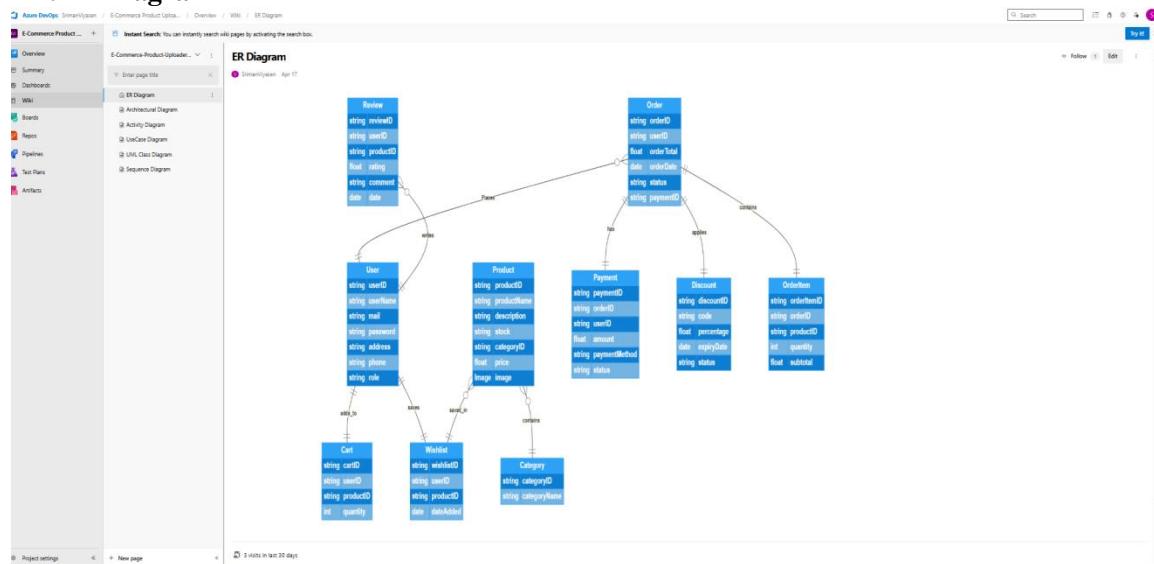
Aim:

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...

Test Suites

TS01 - User Login (ID: 96)

Test Cases (4 items)

	Order
<input type="checkbox"/> Title	
<input type="checkbox"/> TC01 - Register New User Successfully	1
<input type="checkbox"/> TC02 - Register with Existing Email	2
<input type="checkbox"/> Static suite	3
<input type="checkbox"/> Requirement based suite	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

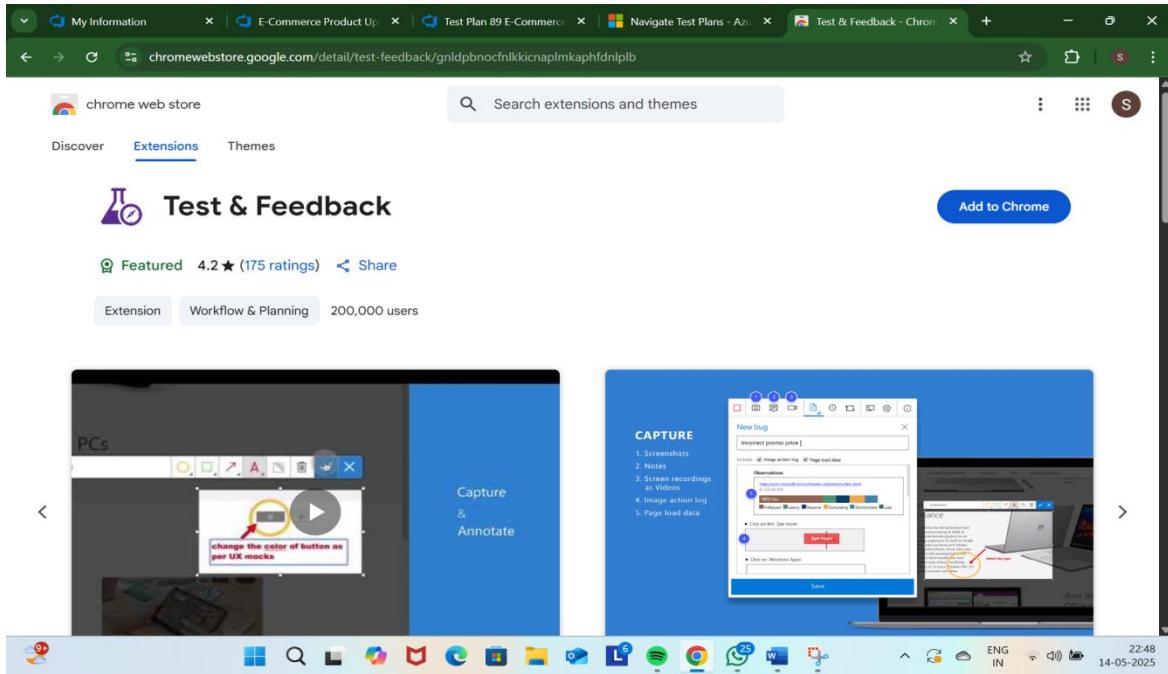
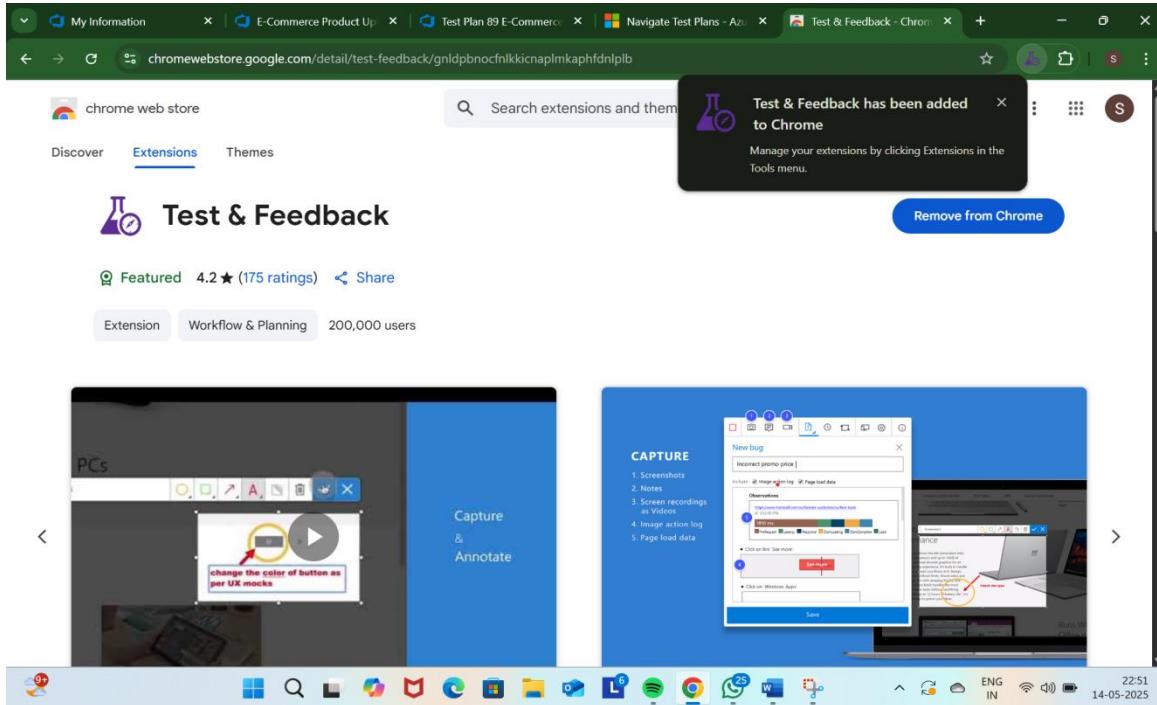
- **Action:**
 - Select multiple categories (e.g., "Electronics" and "Accessories").
- **Expected Results:**
 - Products from both selected categories are displayed.
- **Type:** Happy Path

Test Cases

The screenshot shows a Microsoft Edge browser window displaying the Azure DevOps Test Plan interface. The URL is srimanviyasan.visualstudio.com/E-Commerce%20Product%20Uploader/_testPlans/define?planId=89&suitId=100. The page title is "Test Plan 89 E-Commerce Prod.". The main content is a test case titled "104 TC01 - Upload with Missing Title" for the "E-Commerce Product Uploader" project. The test case is in the "Design" state and has a new reason. The "Steps" tab is selected, showing three steps: 1. Leave the title field empty. 2. Fill in the other fields correctly. 3. Click "Submit". The expected result is "Error message displayed: 'Title'". The deployment section indicates that releases can be tracked by going to Releases and turning on deployment status reporting for Boards in the pipeline's Options menu. The development section suggests linking to Azure Repos commit, pull request, or branch to see the status of development, or creating a branch to get started.

The screenshot shows a Microsoft Edge browser window displaying the Azure DevOps Test Plan interface. The URL is srimanviyasan.visualstudio.com/E-Commerce%20Product%20Uploader/_testPlans/define?planId=89&suitId=96. The page title is "Test Plan 89 E-Commerce Prod.". The main content is a test case titled "97 TC01 - Register New User Successfully" for the "E-Commerce Product Uploader" project. The test case is in the "Design" state and has a new reason. The "Steps" tab is selected, showing four steps: 1. Navigate to Registration Page. 2. Enter valid name, email, and strong password. 3. Click on "Register". 4. (Step 4 is currently empty). The expected result is "User is registered and redirected to dashboard". The deployment section indicates that releases can be tracked by going to Releases and turning on deployment status reporting for Boards in the pipeline's Options menu. The development section suggests linking to Azure Repos commit, pull request, or branch to see the status of development, or creating a branch to get started.

4. Installation of test



Test and feedback

Showing it as an extension

The screenshot shows the Azure DevOps interface for a project titled "E-Commerce Product Uploader". The left sidebar is open, showing options like Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Parameters, Configurations, Runs, and Artifacts. 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: E-Commerce Product Uploader (selected), 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 page. 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 sites (checked), McAfee® WebAdvisor (unchecked), Picture-in-Picture Extension (unchecked), Test & Feedback (checked), and Wordtune: AI Paraphrasing... (unchecked). Below these is a link to "Manage extensions". The "No access needed" section contains one entry: ChatGPT to PDF by PDFCroc... (unchecked). The status bar at the bottom shows the date and time as 14-05-2025 22:52.

5. Running the test cases

The screenshot shows the Microsoft Test Plan application window. The left sidebar displays 'Test Suites' for the 'E-Commerce Product Uploader' project, with 'TS01 - User Login (4)' selected. The main area shows 'TS01 - User Login (ID: 96)' with four test points listed:

Title	Outcome	Order	Test Case ID
TC01 - Register New User Successfully	Passed	1	97
TC02 - Register with Existing Email	In Progress	2	99
TC03 - Login with Correct Credentials	Active	3	102
TC04 - Login with Incorrect Credentials			103

A context menu is open over the first test point, showing options like 'Run for web application', 'Run for desktop application', and 'Run with options'. The system tray at the bottom right shows the date as 14-05-2025 and time as 23:02.

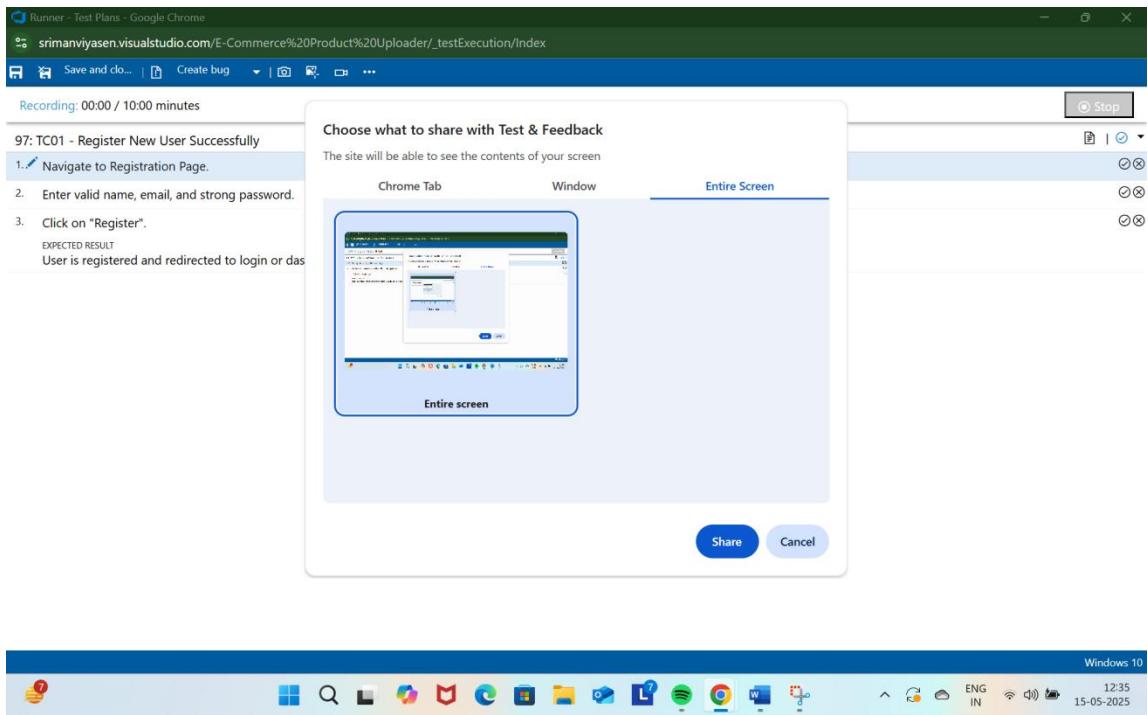
The screenshot shows the 'Runner - Test Plans - Google Chrome' window. It displays the steps for '97: TC01 - Register New User Successfully':

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

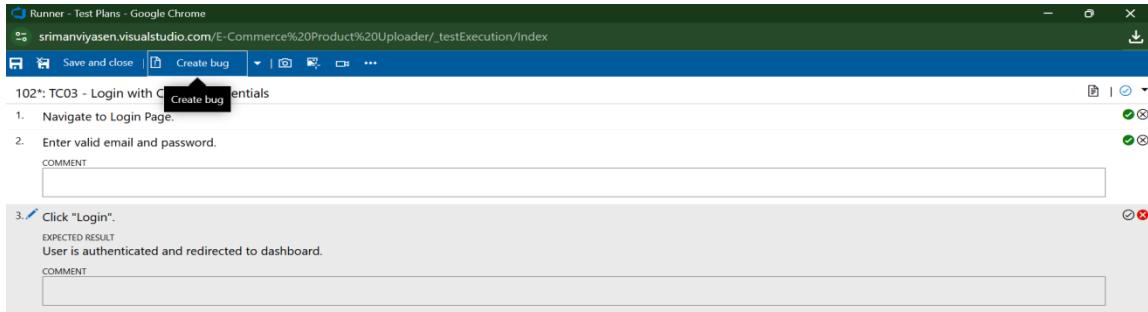
EXPECTED RESULT:
User is registered and redirected to login or dashboard.



6. Recording the test case



7. Creating the bug



Runner - Test Plans - Google Chrome
srimanviyasan.visualstudio.com/E-Commerce%20Product%20Uploader/_testExecution/Index

102: TC03 - Login with Correct Credentials

1. NEW BUG *

TB01 - User is not redirected to dashboard after authentication

Unassigned 0 comments Add tag Save & Close

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 Deployment

Resolved Reason Story Points
Priority 2 Severity 3 - Medium Activity

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.

Effort (Hours) Original Estimate

Related Work



Runner - Test Plans - Google Chrome
srimanviyasan.visualstudio.com/E-Commerce%20Product%20Uploader/_testExecution/Index

102: TC03 - Login with Correct Credentials

1. NEW BUG *

TB01 - User is not redirected to dashboard after authentication

Unassigned 0 comments Add tag Save & Close

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 Deployment

Resolved Reason Story Points
Priority 2 Severity 3 - Medium Activity

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.

Effort (Hours) Original Estimate

Related Work



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 for 'E-Commerce Prod...'. 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...'. A modal window titled 'TC03 - Login with Correct Credentials' is open, showing 'Test Case Results' with four items:

Title	Outcome	TimeStamp	Configuration	Run by	Tester	Test
TC01 - Register New User Success	Passed	Just now	Windows 10	SrimanViyasen	SrimanViyasen	E-C...
TC02 - Register with Existing Em...	Passed	5m ago	Windows 10	SrimanViyasen	SrimanViyasen	E-C...
TC03 - Login with Correct Creden...	Passed	Just now	Windows 10	SrimanViyasen	SrimanViyasen	E-C...
TC04 - Login with Incorrect Cred...	Failed	5m ago	Windows 10	SrimanViyasen	SrimanViyasen	E-C...

At the bottom of the modal, there's a link 'Open execution history for current test point'.

9. Test report summary

The screenshot shows a work item details page for a bug titled 'BUG 118 TB01 - User is not redirected to dashboard'. The work item has the following fields:

- State:** New
- Reason:** New
- Repro Step:** Active
- Iteration:** E-Commerce Product Uploader
- Result:** Passed (for step 1), Passed (for step 2), Failed (for step 3)
- Title:** Navigate to Login Page., Enter valid email and password., 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
- Effort (Hours):** 1.5

- Assigning bug to the developer and changing state.

118 TB01 - User is not redirected to dashboard

SbyamNarayanan

0 Comments Add Tag

Save and Close Follow

Updated by SrimanViyasen: 8m ago

Details

Repro Steps

5/14/2025 5:42 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

Severity

Activity

Effort (Hours)

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](#)

Deployment

Development

Add link

Link an Azure Repos [commit](#), [pull request](#) or [branch](#) to see the status of your

Team

125 days

23:22 14-05-2025

10. Progress report

E-Commerce Product ...

Overview

Boards

Repos

Pipelines

Test Plans

Test plans

Progress report

Parameters

Configurations

Runs

Artifacts

Project settings

Summary

1 Test plans

16 Test points

12 (12 / 16) Test points run

75% Run

100% (12 / 12) Pass rate

12 Passed

Outcome trend

Last 14 Days

Tests

Not run

Passed

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

12:29 15-05-2025

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:

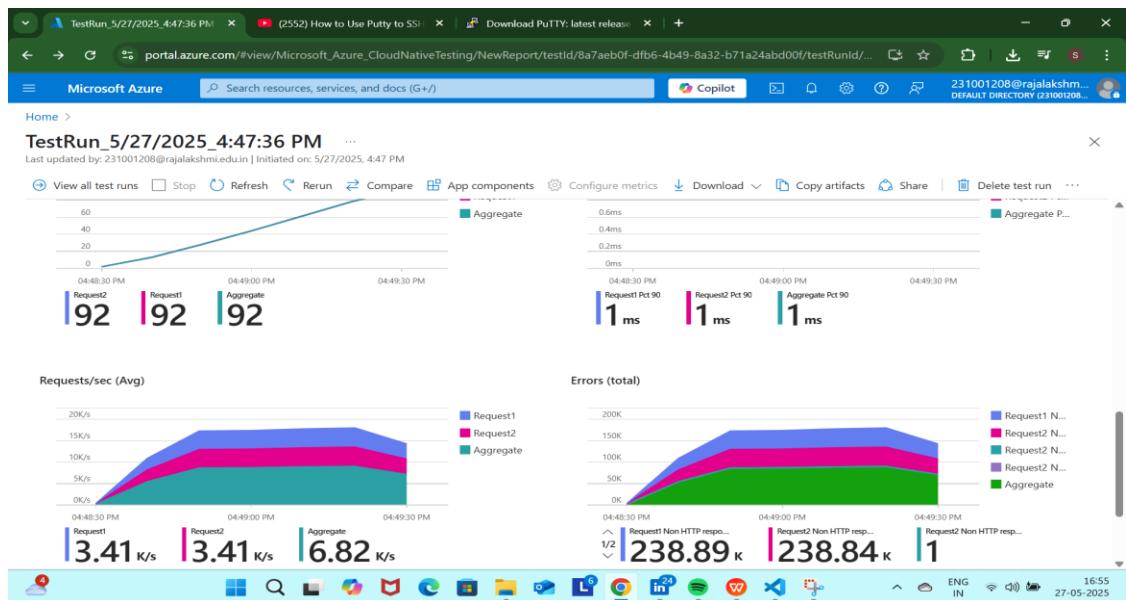
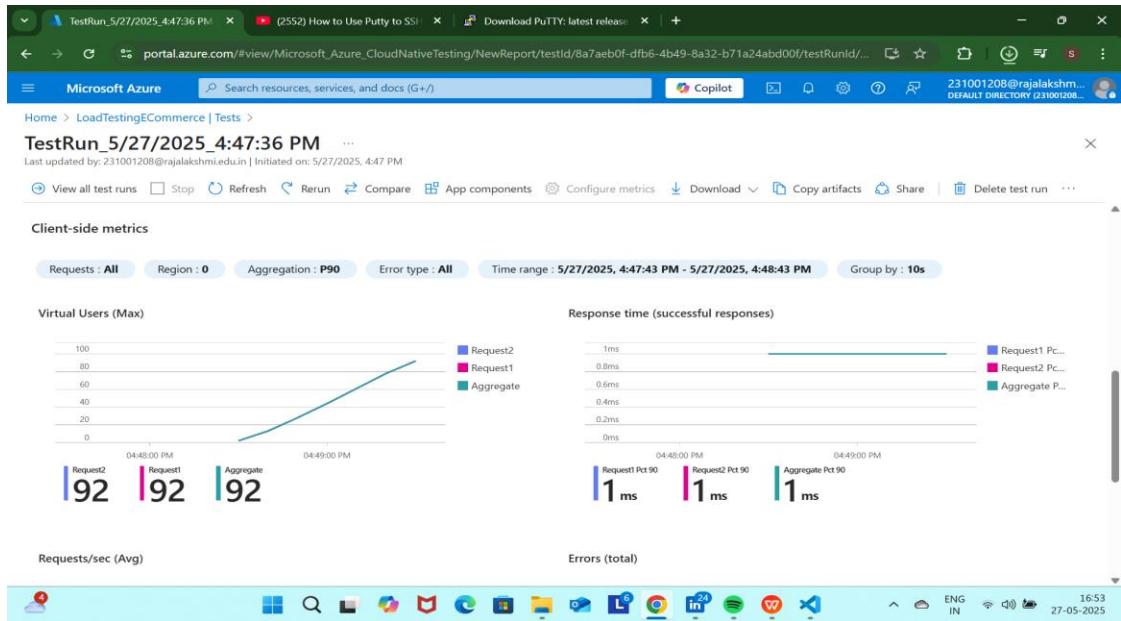
1. Sign in to Azure Portal
Go to <https://portal.azure.com> and log in.
2. Create the Resource
 - o Go to *Create a resource* → Search for “Azure Load Testing”.
 - o Select Azure Load Testing and click Create.
3. Fill in the Configuration Details
 - o *Subscription*: Choose your Azure subscription.
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

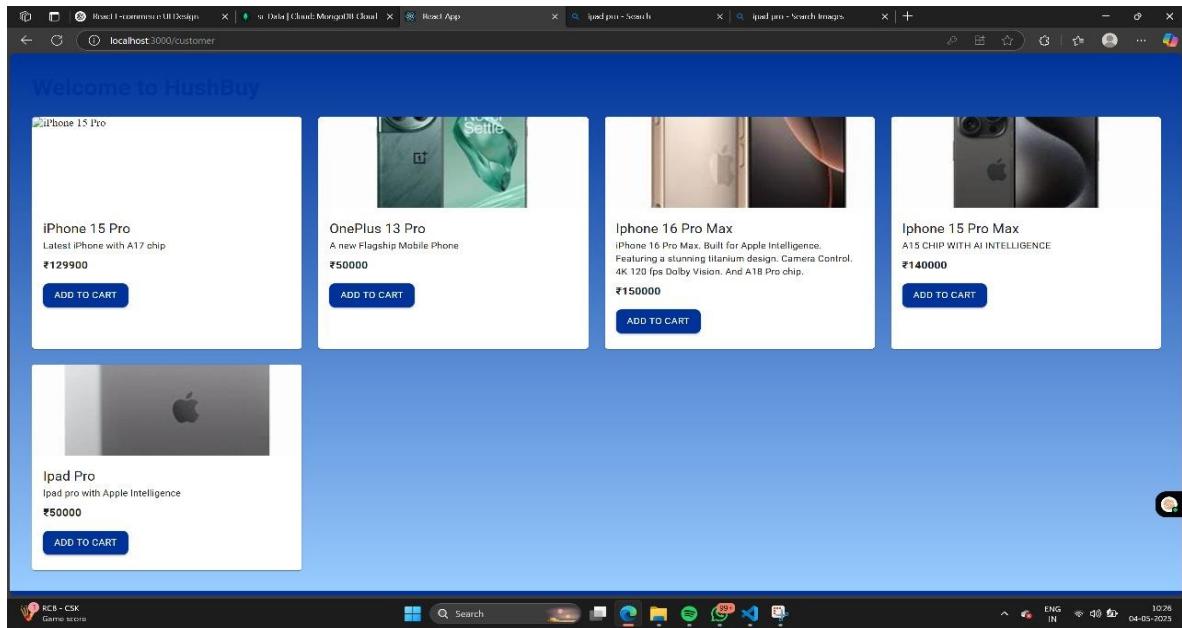
Steps to Create and Run a Load Test:

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.

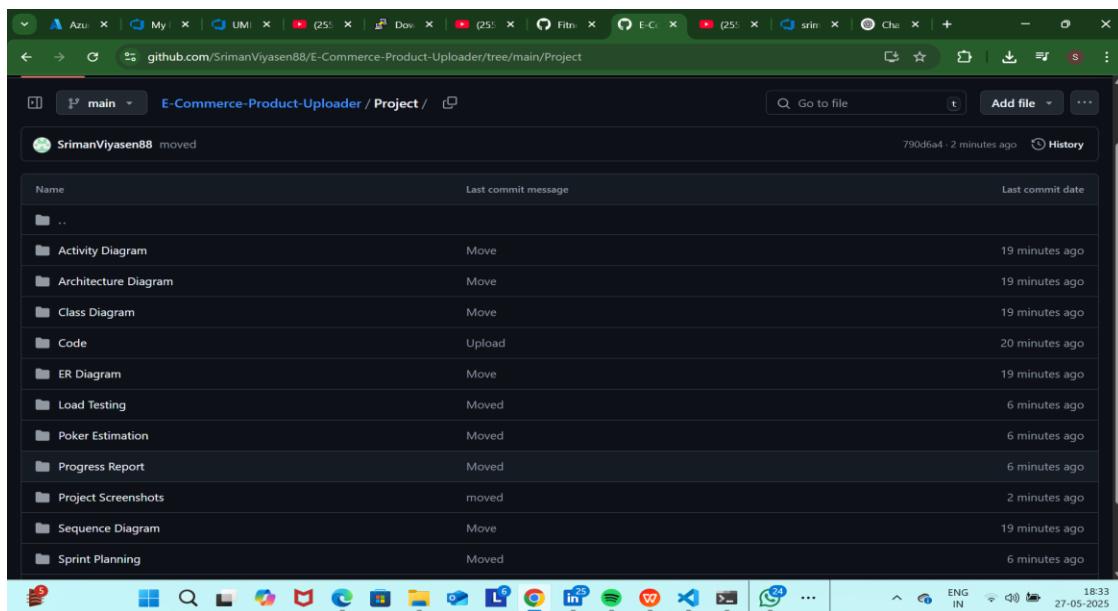
EXP NO: 10

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' with a single branch 'main'. The repository contains several files and folders, each with a commit message and timestamp. The commits are all labeled 'Moved', indicating a recent restructuring of the project. The files listed include Activity Diagram, Architecture Diagram, Class Diagram, Code, ER Diagram, Load Testing, Poker Estimation, Progress Report, Project Screenshots, Sequence Diagram, and Sprint Planning.

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.