

EXP NO: 1

AZURE DEVOPS ENVIRONMENT SETUP

Aim:

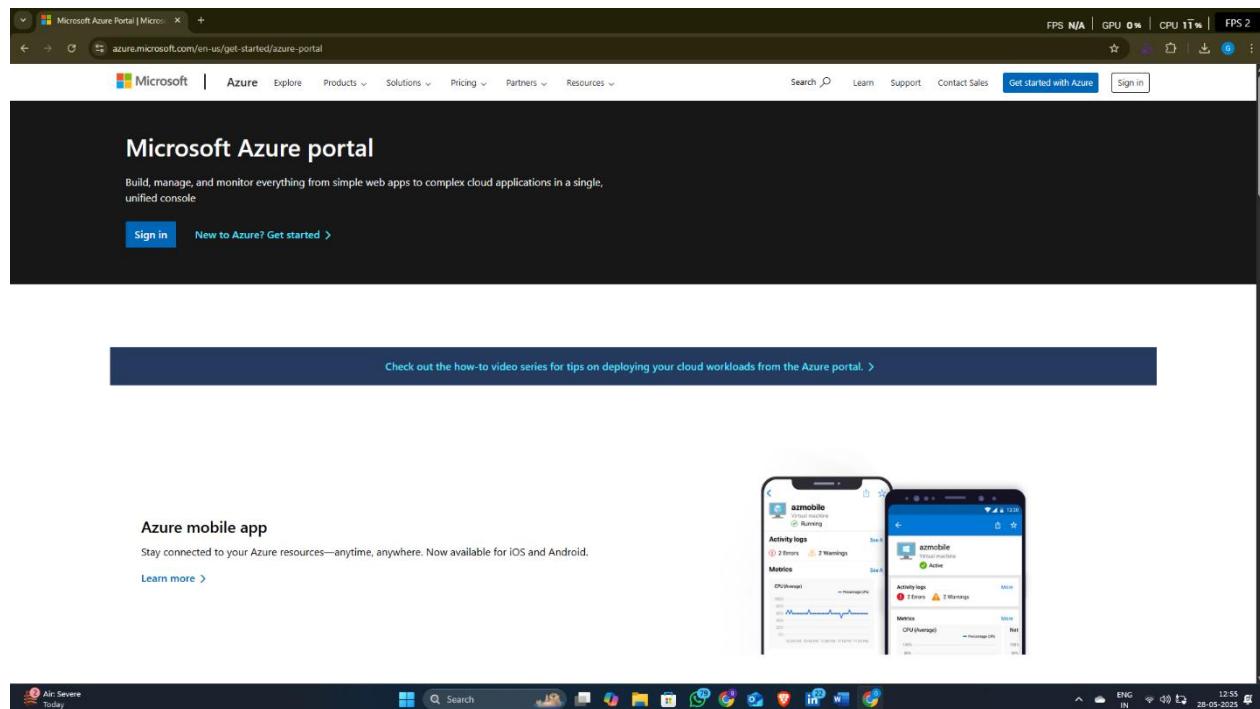
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

INSTALLATION

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



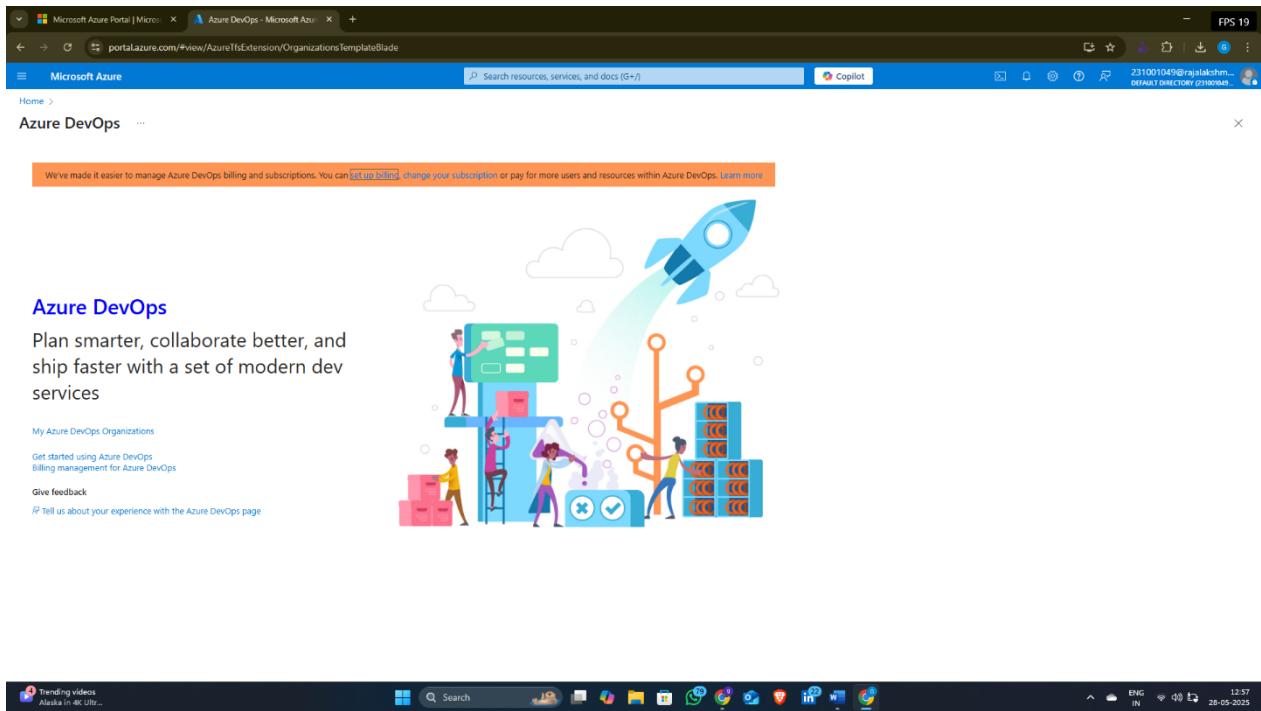
2.Azure home page

The screenshot shows the Microsoft Azure home page. At the top, there's a navigation bar with icons for Home, Search, and Copilot. Below the navigation bar, the main content area starts with a "Welcome to Azure!" message and a note about free trials. There are three main service tiles: "Start with an Azure free trial", "Manage Microsoft Entra ID", and "Azure for Students". Below these tiles, there's a section titled "Azure services" with icons for Create a resource, Azure DevOps organizations, Quickstart Center, Azure AI Foundry, Kubernetes services, Virtual machines, App Services, Storage accounts, SQL databases, and More services. Further down, there's a "Resources" section with tabs for Recent and Favorite, and a "No resources have been viewed recently" message. The bottom of the screen shows a taskbar with various pinned icons and system status indicators.

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, showing the Microsoft Azure home page. However, a search overlay has been triggered in the search bar at the top. The search term "Azure DevOps Organizations" is entered, and the results are displayed in a dropdown menu. The results include "Azure Native New Relic Service", "Managed DevOps Pools", "Azure DevOps organizations", "Azure Native Dynatrace Service", "Marketplace", "Static Web App", "Rocky Linux 9", "Build Agents for Azure DevOps", "SonarCube on Azure", and "Documentation". The rest of the page content, including the service tiles and resource sections, remains visible below the search overlay.

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.

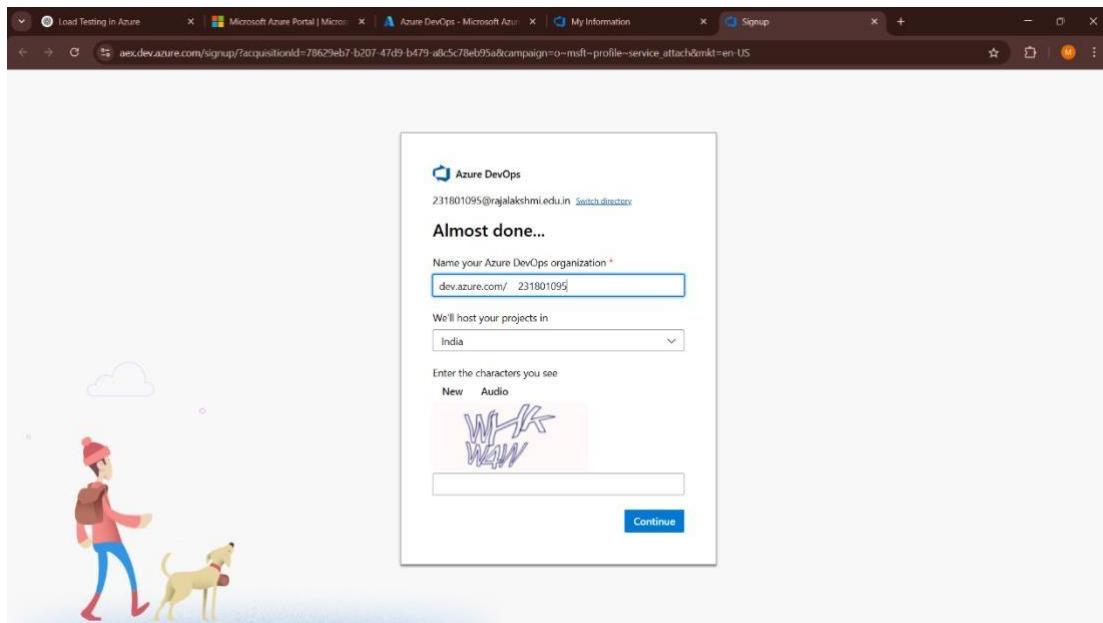
EXP NO: 2

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 Website

Description

Visibility



Public

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



Private

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



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

▼ Advanced

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 home page. On the left, there's a sidebar with the user's profile picture (a purple circle with 'GP'), name ('Gowtham PL'), email ('231001049@rajalakshmi.edu.in'), and a Microsoft account dropdown. Below this is a section for 'India' with an email address ('231001049@rajalakshmi.edu.in'). A 'Visual Studio Dev Essentials' section is also present. On the right, the main area displays 'Azure DevOps Organizations' with a 'Create new organization' button. It lists the organization 'dev.azure.com/231001049 (Owner)' which contains three projects: 'E-Commerce Merchandise', 'e-commerce project', and 'e-commerce'. There are also 'Actions' like 'Open in Visual Studio' and a link to 'dev.azure.com/E-Commerce1 (Owner)'.

4. Project dashboard

The screenshot shows the Azure DevOps project dashboard for 'E-Commerce Merchandise'. The left sidebar includes links for Overview, Summary, Dashboards, Wiki, Boards, Repos, Pipelines, Test Plans, and Artifacts. The main content area has a heading 'E-Commerce Merchandise'. It features sections for 'About this project' (with a 'Help others to get on board!' button and a 'Add Project Description' button), 'Project stats' (showing 60 work items created and 0 completed), and 'Members' (listing five team members with their icons). A note at the top right about Windows Server 2019 support being deprecated is visible. The bottom of the screen shows a taskbar with various application icons.

5. To manage user stories:

- 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.
- 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 Boards page for the 'E-Commerce Merchandise Team'. The left sidebar has 'Backlogs' selected. The main area displays a backlog of 15 User Stories. Each story includes a summary, state (New), value area (Business), iteration path (various product areas), and tags. To the right, there's a 'Planning' board with four items: 'E-Commerce Merchandise Team bac...', 'Product and Inventory Management', 'User Shopping Experience', and 'Promotion and Discount Management'. Below the backlog, there are sections for 'Stories' and 'Iterations'.

The screenshot shows the Microsoft account sign-in page. It features the Microsoft logo and the user's name 'Gowtham PL' along with their email address '231001049@rajalakshmi.edu.in'. There are buttons for 'View profile', 'My Microsoft account', and 'Switch directory'. At the bottom, there's a link to '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.

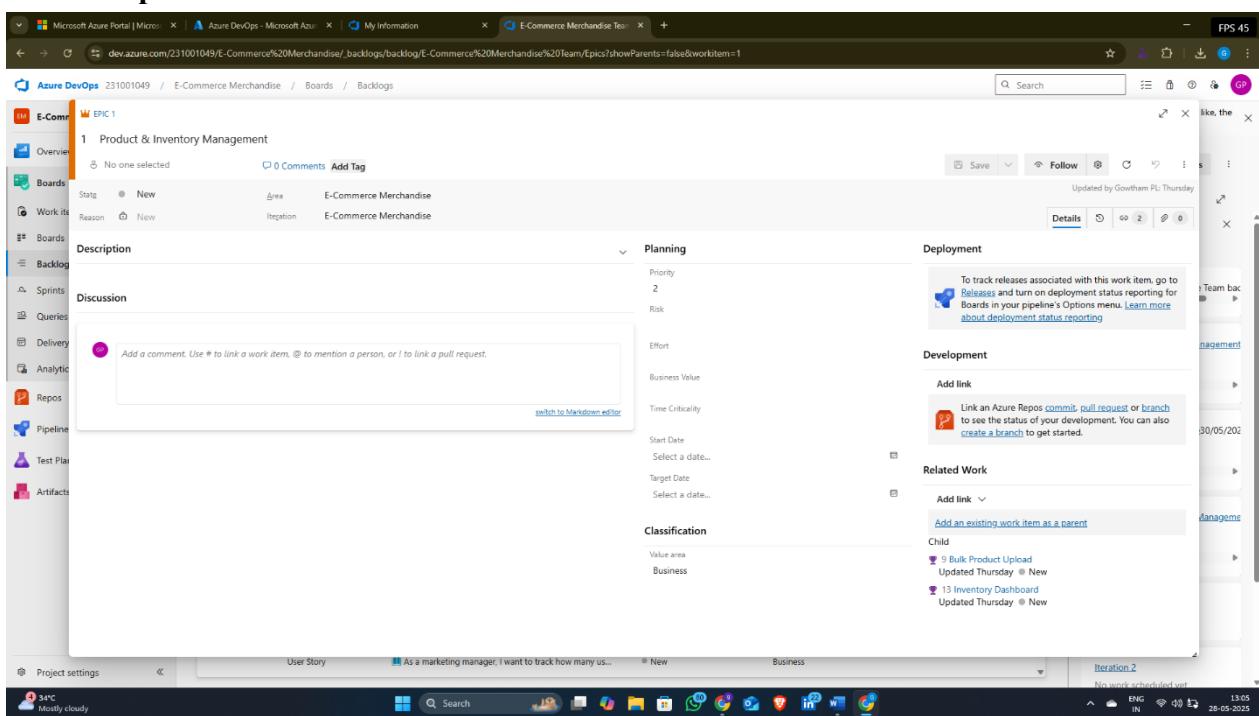
Create Epic, Features, User Stories, Task

The screenshot shows the Azure DevOps interface for the E-Commerce Merchandise Team. On the left, the sidebar is open with 'Backlogs' selected. The main area displays a backlog of work items across three epics:

- Epic 1: Product & Inventory Management**
 - Feature: Bulk Product Upload
 - Feature: Inventory Dashboard
- Epic 2: Seamless Shopping Experience**
 - User Story: As a customer, I want to search products by name or key...
 - User Story: As a customer, I want to filter products by category and...
 - User Story: As a customer, I want to sort products by rating or price...
 - Feature: Order Tracking System
 - User Story: As a customer, I want to view the current status of my order...
 - User Story: As a customer, I want to receive SMS or email notifications...
- Epic 3: Promotions & Discounts Management**
 - Feature: Discount Code Generator
 - User Story: As a marketing manager, I want to generate unique discount codes...
 - User Story: As a marketing manager, I want to set start and end dates for discounts...
 - User Story: As a marketing manager, I want to apply discount codes to specific products...
 - Feature: Campaign Performance Tracking
 - User Story: As a marketing manager, I want to track how many users have used a discount code...

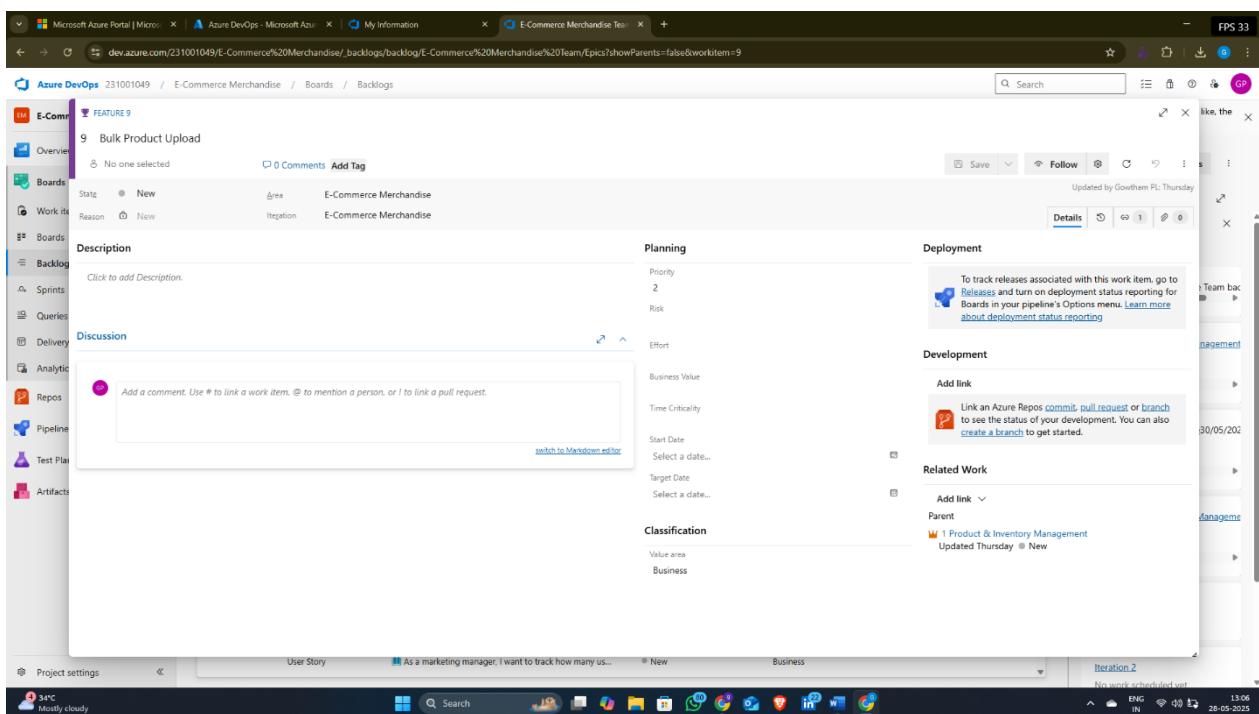
On the right, a 'Planning' panel is visible, showing iteration progress for Iteration 1 and Iteration 2. The overall interface is clean and modern, typical of a cloud-based project management tool.

1.Fill in Epics



A screenshot of the Azure DevOps interface showing the creation of an Epic. The left sidebar shows 'E-Commerce' selected under 'Overview'. The main area is titled 'EPIC 1' and '1 Product & Inventory Management'. The 'Planning' section includes fields for Priority (set to 2), Risk, Effort, Business Value, and Time Criticality. The 'Deployment' section has a note about releases and deployment status reporting. The 'Development' section includes an 'Add link' button and a note about Azure Repos. The 'Related Work' section lists a child work item: '9 Bulk Product Upload' (status: Updated Thursday). The bottom navigation bar shows 'Iteration 2'.

2.Fill in Features



A screenshot of the Azure DevOps interface showing the creation of a Feature. The left sidebar shows 'E-Commerce' selected under 'Overview'. The main area is titled 'FEATURE 9' and '9 Bulk Product Upload'. The 'Planning' section includes fields for Priority (set to 2), Risk, Effort, Business Value, and Time Criticality. The 'Deployment' section has a note about releases and deployment status reporting. The 'Development' section includes an 'Add link' button and a note about Azure Repos. The 'Related Work' section lists a parent work item: '1 Product & Inventory Management' (status: Updated Thursday). The bottom navigation bar shows 'Iteration 2'.

3. Fill in User Story Details

The screenshot shows the Azure DevOps interface for creating a user story. The URL is dev.azure.com/231001049/E-Commerce/_backlogs/backlog/E-Commerce%20Merchandise%20Team/Epics?showParents=false&workItem=18. The left sidebar shows 'E-Commerce' selected under 'Backlog'. The main area displays 'USER STORY 18' with the description: 'As a customer, I want to search products by name or keyword so I can find items easily.' Under 'Acceptance Criteria', there are bullet points: 'Search results update dynamically as the customer types keywords.', 'Search supports partial matches and is case-insensitive.', and 'Search results include product name, price, and thumbnail image.'. The 'Planning' section includes 'Story Points' (2), 'Priority' (2), and 'Risk'. The 'Classification' section shows 'Value area' (Business). The 'Deployment' section has a note about tracking releases. The 'Development' section links to Azure Repos. The 'Related Work' section lists a task: '17 Product Search and Filtering' (Updated Thursday) and another task: '48 Search by Name or Keyword' (Updated Thursday). The bottom navigation bar shows 'User Story' and 'Iteration 2'.

Result:

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

EXP NO: 4

SPRINT PLANNING

Aim:

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

Sprint Planning

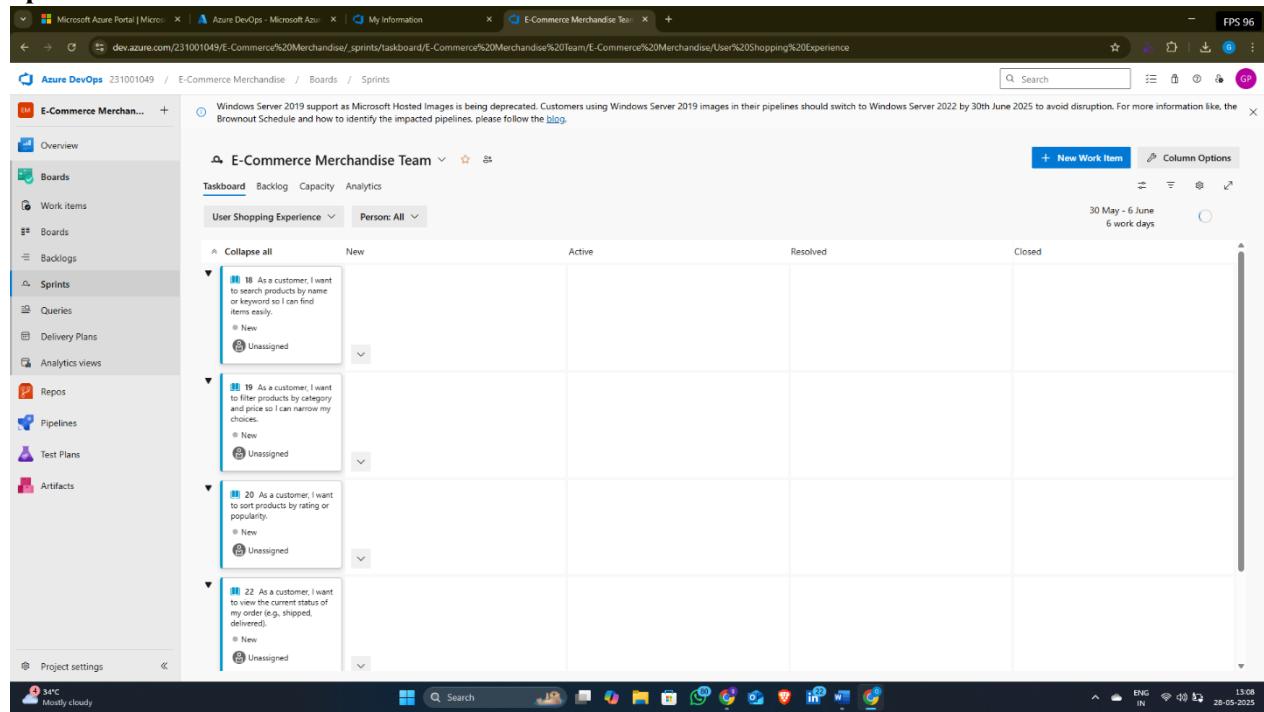
Sprint 1

The screenshot shows the Azure DevOps Taskboard for the E-Commerce Merchandise Team. The board is titled "Product and Inventory Management" and is set for the period from 22 May to 29 May, with 2 work days remaining. The board has four columns: New, Active, Resolved, and Closed. There are four user stories listed under the New column:

- 3 As an admin, I want to upload a CSV file of products so that I can add multiple products quickly. Status: New, Assigned to: Unassigned.
- 4 As an admin, I want to get error messages for invalid rows in the file so that I can fix issues easily. Status: New, Assigned to: Unassigned.
- 5 As an admin, I want a preview of uploaded products before confirming the import. Status: New, Assigned to: Unassigned.
- 7 As an admin, I want to see stock levels for all products in one view. Status: New, Assigned to: Unassigned.

The left sidebar shows the project navigation with "Sprints" selected. The bottom status bar indicates the date as 28-05-2023 and the time as 13:08.

Sprint 2

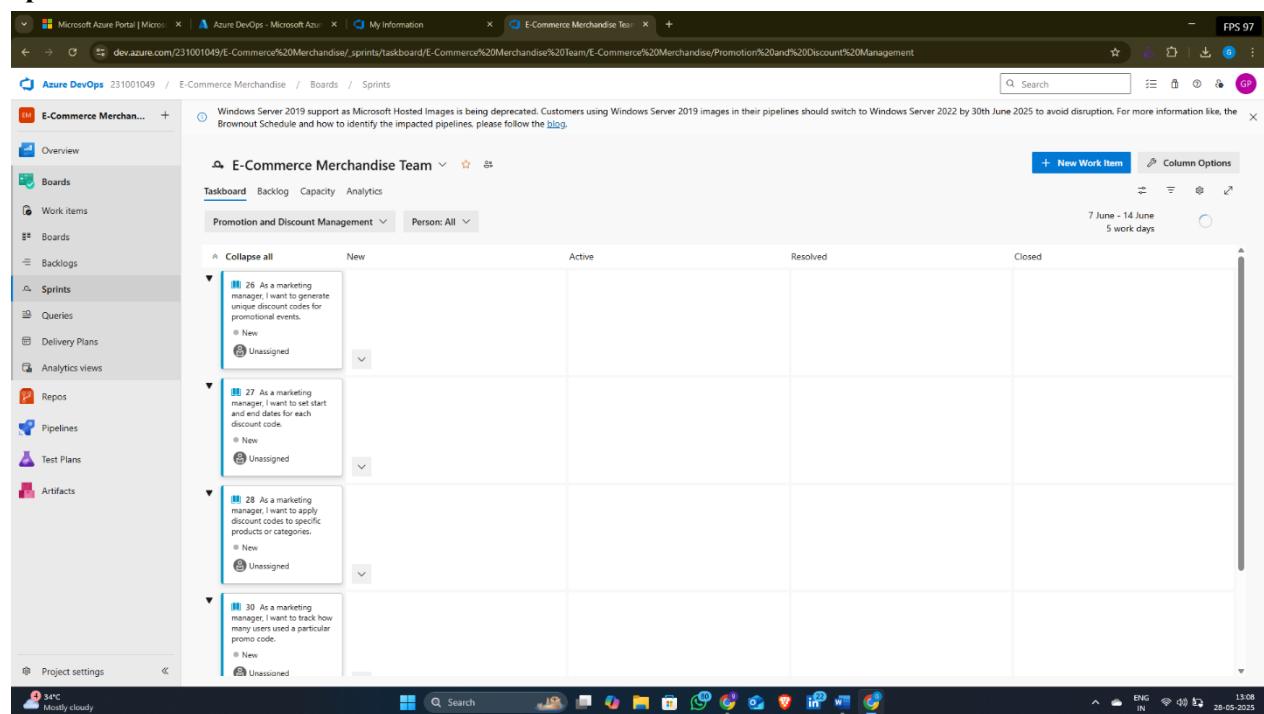


The screenshot shows the Azure DevOps Taskboard for the E-Commerce Merchandise Team. The board is titled "User Shopping Experience" and has columns for New, Active, Resolved, and Closed. There are four user stories listed:

- Ideas 18, 19, 20, and 22, all labeled as "New" and "Unassigned".

The taskbar header indicates it's for the "E-Commerce Merchandise Team" and shows the date range "30 May - 6 June" and "6 work days". The footer shows the date "28-05-2025".

Sprint 3



The screenshot shows the Azure DevOps Taskboard for the E-Commerce Merchandise Team. The board is titled "Promotion and Discount Management" and has columns for New, Active, Resolved, and Closed. There are four user stories listed:

- Ideas 26, 27, 28, and 30, all labeled as "New" and "Unassigned".

The taskbar header indicates it's for the "E-Commerce Merchandise Team" and shows the date range "7 June - 14 June" and "5 work days". The footer shows the date "28-05-2025".

Result:

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

EXP NO: 5

POKER ESTIMATION

Aim:

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

Poker Estimation

The screenshot shows the Azure DevOps interface for a User Story titled "As a customer, I want to search products by name or keyword so I can find items easily." The story has a priority of 2 and is in the Business value area. The acceptance criteria section lists: "Search results update dynamically as the customer types keywords.", "Search supports partial matches and is case-insensitive.", and "Search results include product name, price, and thumbnail image." The planning section shows 2 story points assigned. The deployment section includes a note about tracking releases. The development section links to an Acure Repo commit, pull request, or branch. The related work section lists "17 Product Search and Filtering" and "48 Search by Name or Keyword". The bottom of the screen shows the Windows taskbar with various pinned icons.

Result:

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

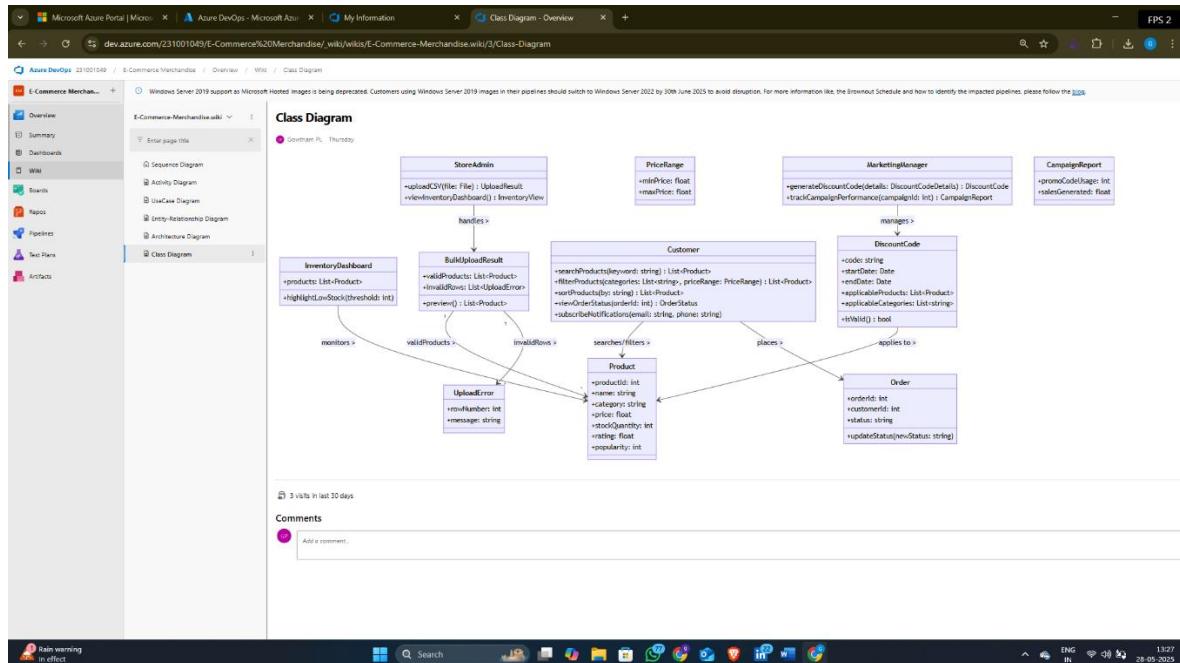
EXP NO: 6

DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE

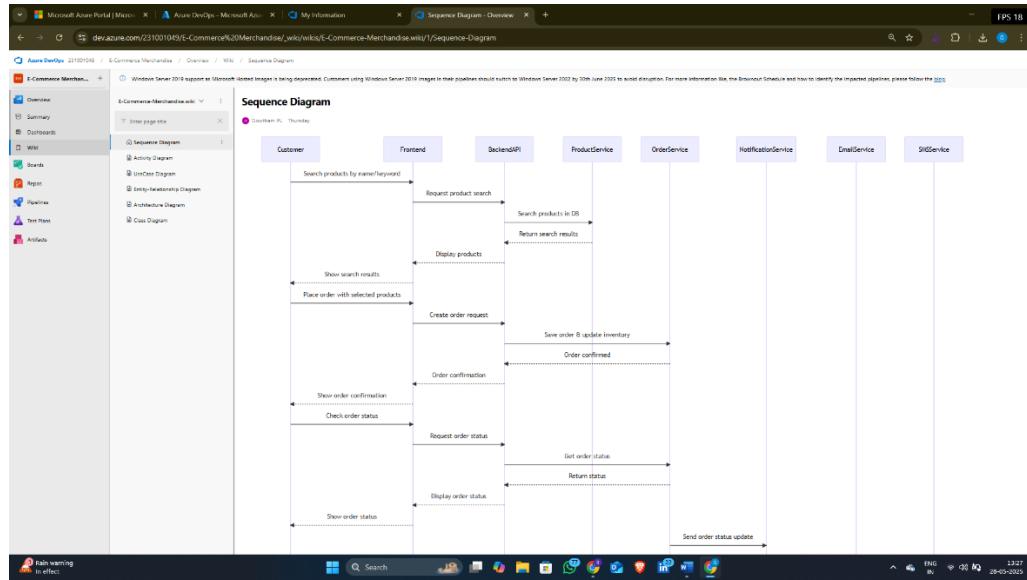
Aim:

To Design a Class Diagram and Sequence Diagram for the given Project. 6A.

Class Diagram



6B. Sequence Diagram



Result:

The Class Diagram and Sequence Diagram is designed Successfully for the Music Playlist Batch Creator.

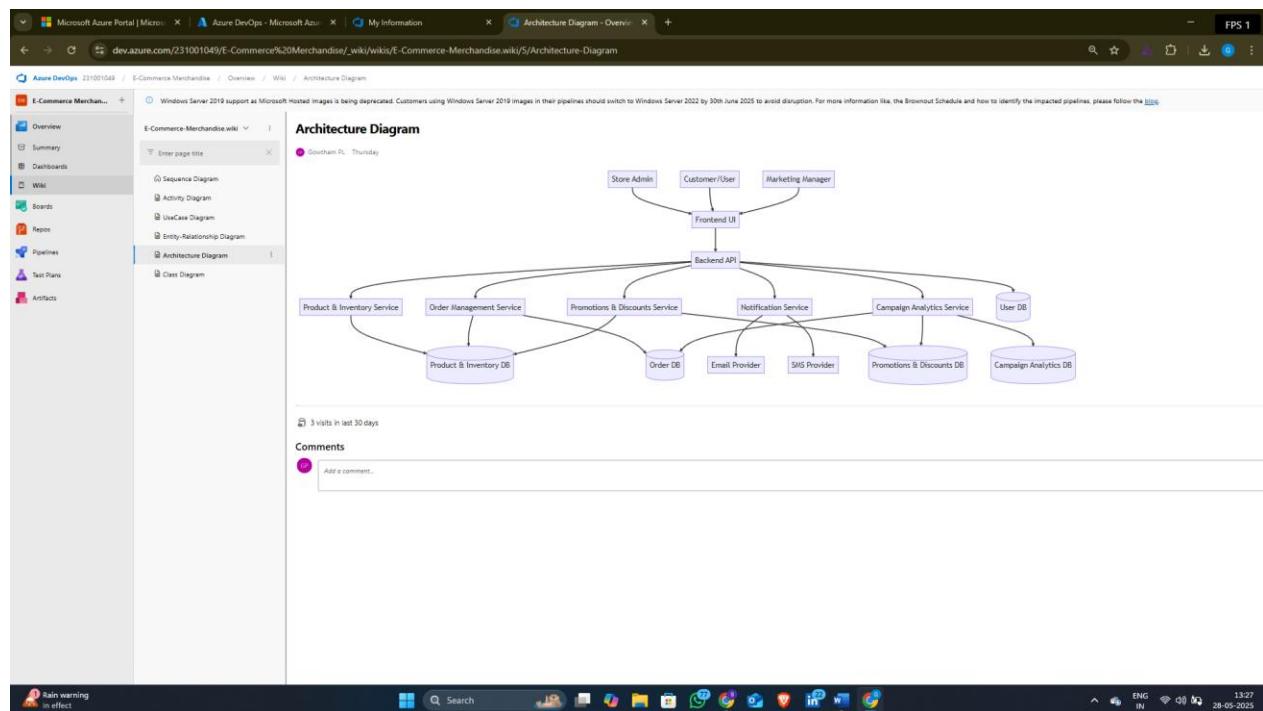
EXP NO: 7

DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE

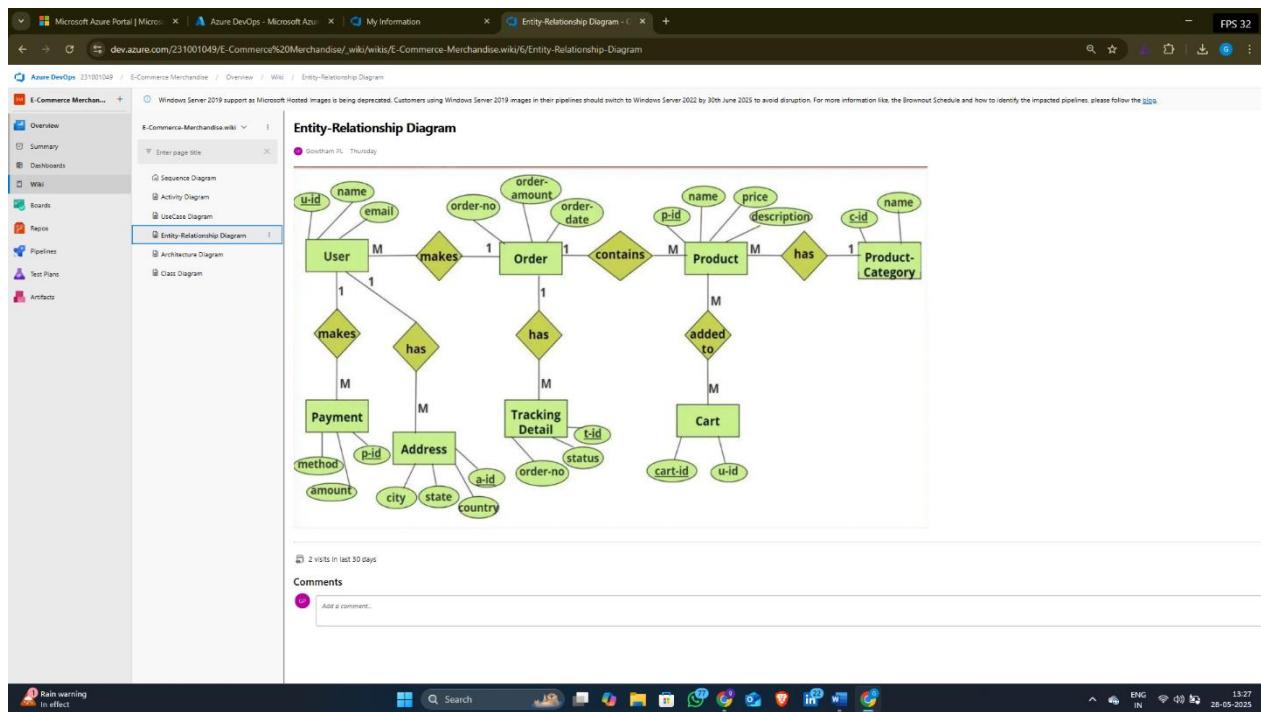
Aim:

To Design an Architectural Diagram and ER Diagram for the given Project. 7A.

Architectural Diagram



7B.ER Diagram



Result:

The Architecture Diagram and ER Diagram is designed Successfully for the Music Playlist Batch Creator

EXP NO: 8

TESTING – TEST PLANS AND TEST CASES

Aim:

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

Test Planning and Test Case

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 'New Test Plan' creation interface in Azure DevOps. The 'Name' field contains 'Music Playlist Batch Creator - Test Plan'. The 'Area Path' field contains 'Music Playlist Batch Creator'. The 'Iteration' field contains 'Music Playlist Batch Creator/Integration'. At the bottom right, there are 'Create' and 'Cancel' buttons, along with a small circular icon with three dots.

2. Test suite

The screenshot shows the 'New Test Case' creation interface in Azure DevOps. The 'Title' field contains 'Gowtham PL'. The 'Start' field is set to 'Design'. The 'Reason' field is set to 'New'. The 'Area' and 'Iteration' fields both contain 'E-Commerce Merchandise'. The 'Steps' section has a placeholder 'Click or type here to add a step'. On the right, there are sections for 'Deployment' (with a note about tracking releases) and 'Development' (with a note about linking to Azure Repos). Other sections like 'Related Work', 'Status', and 'Priority' are also visible.

3. Test case

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

Music Playlist Batch Creator – Test Plans

USER STORIES

- As a marketing manager, I want to generate unique discount codes for promotional events.
- As a customer, I want to filter products by category and price so I can narrow my choices.
- As a customer, I want to sort products by rating or popularity.
- As an admin, I want low-stock items to be highlighted for quicker restocking.

Test Suites

Test Suite: TS01 – Bulk Product Upload (Admin)

Feature: Bulk Product Upload

User Story 1: Upload CSV file of products

User Story 2: Show errors for invalid rows

User Story 3: Preview before confirming import

TC01 – Successful Bulk Upload

- Action:
 - Go to Bulk Upload page
 - Upload a valid CSV file with product details
 - Click “Upload”
- Expected Result:
 - Preview of valid rows is shown
 - No error messages appear
 - “Confirm Import” button is enabled
- Type: Happy Path

TC02 – Upload With Invalid Rows

- Action:
 - Upload a CSV file with missing product names/prices
- Expected Result:
 - Valid rows previewed
 - Invalid rows are highlighted
 - Error message: “Row 2: Product Name is required”
- Type: Error Path

TC03 – Confirm and Import Products

- Action:
 - After previewing valid data, click “Confirm Import”
- Expected Result:
 - Products are saved in the database
 - Confirmation message is shown

- Type: Happy Path

Test Suite: TS02 – Inventory Dashboard (Admin)

Feature: Inventory Dashboard

User Story 1: View stock levels

User Story 2: Highlight low-stock items

TC04 – View All Inventory

- Action:
 - Go to Inventory Dashboard
- Expected Result:
 - List of all products with current stock quantity
- Type: Happy Path

TC05 – Highlight Low-Stock Items

- Action:
 - Set a product stock to below threshold (e.g., < 5)
 - Refresh dashboard
- Expected Result:
 - Item row is highlighted (e.g., red)
 - Alert icon displayed
- Type: Happy Path

Test Suite: TS03 – Product Search & Filtering (Customer)

Feature: Product Search & Filtering

User Story 1: Search by name/keyword

User Story 2: Filter by category/price

User Story 3: Sort by rating/popularity

TC06 – Search by Name

- Action:
 - Enter “T-shirt” in search bar and press Enter
- Expected Result:
 - All matching T-shirt products displayed
- Type: Happy Path

TC07 – Filter by Category and Price

- Action:
 - Select “Hoodies” category
 - Set price range: ₹500 – ₹1500
- Expected Result:
 - Products filtered accurately
- Type: Happy Path

TC08 – Sort by Popularity

- Action:
 - Click on “Sort by Popularity”
- Expected Result:
 - Products rearranged by most purchased or liked
- Type: Happy Path

Test Suite: TS04 – Order Tracking (Customer)

Feature: Order Tracking

User Story 1: View order status

User Story 2: Get SMS/email updates

TC09 – View Order Status

- Action:
 - Go to “My Orders”
 - Click on an order
- Expected Result:
 - Status shown (e.g., “Shipped”, “Delivered”)
- Type: Happy Path

TC10 – Receive Notification on Status Change

- Action:
 - Order is marked “Out for Delivery” by system
- Expected Result:
 - Email and SMS sent to customer
- Type: Happy Path

Test Suite: TS05 – Discount Code Management (Marketing)

Feature: Discount Code Generator

User Story 1: Generate discount codes

User Story 2: Set validity

User Story 3: Apply to categories/products

TC11 – Generate Discount Code

- Action:
 - Go to “Promo Tools”
 - Click “Generate Code”, set value (e.g., 15% OFF)
- Expected Result:
 - Unique code created and listed
- Type: Happy Path

TC12 – Apply Code to Product

- Action:
 - Choose products or categories and apply code
- Expected Result:
 - Code applied successfully and shown in frontend offers
- Type: Happy Path

Test Suite: TS06 – Campaign Tracking (Marketing)

Feature: Campaign Performance Tracking

User Story 1: Track promo code usage

User Story 2: Track sales from campaigns

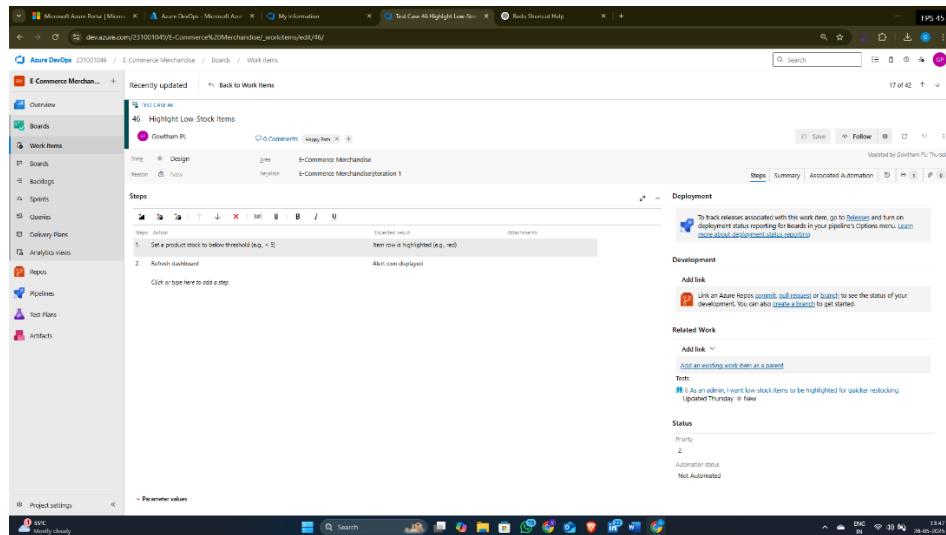
TC13 – Track Promo Code Usage

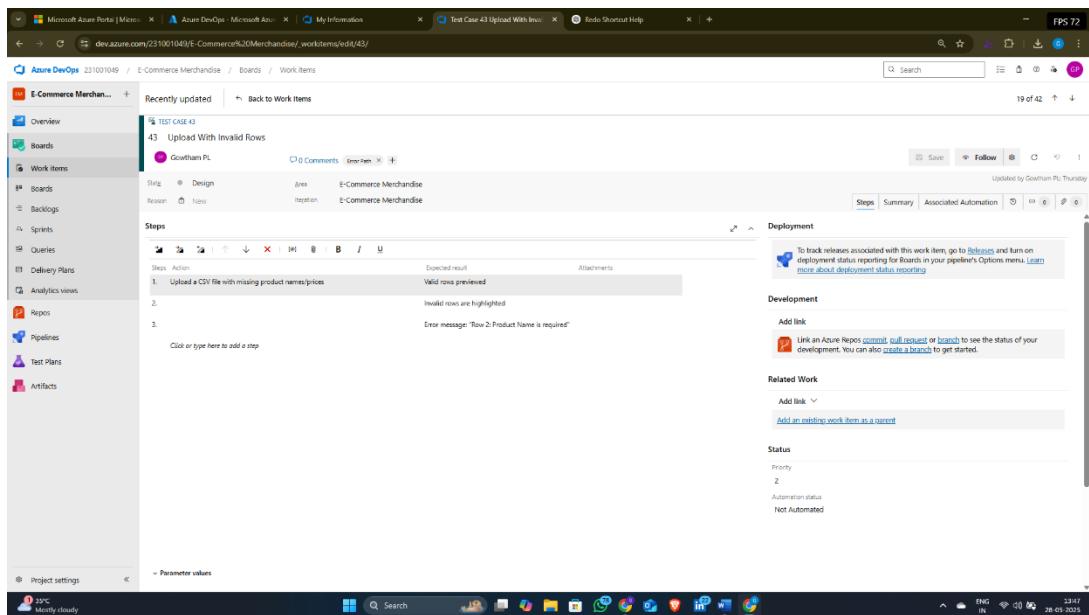
- Action:
 - View analytics for a promo code
- Expected Result:
 - Number of redemptions and users shown
- Type: Happy Path

TC14 – Track Campaign Sales

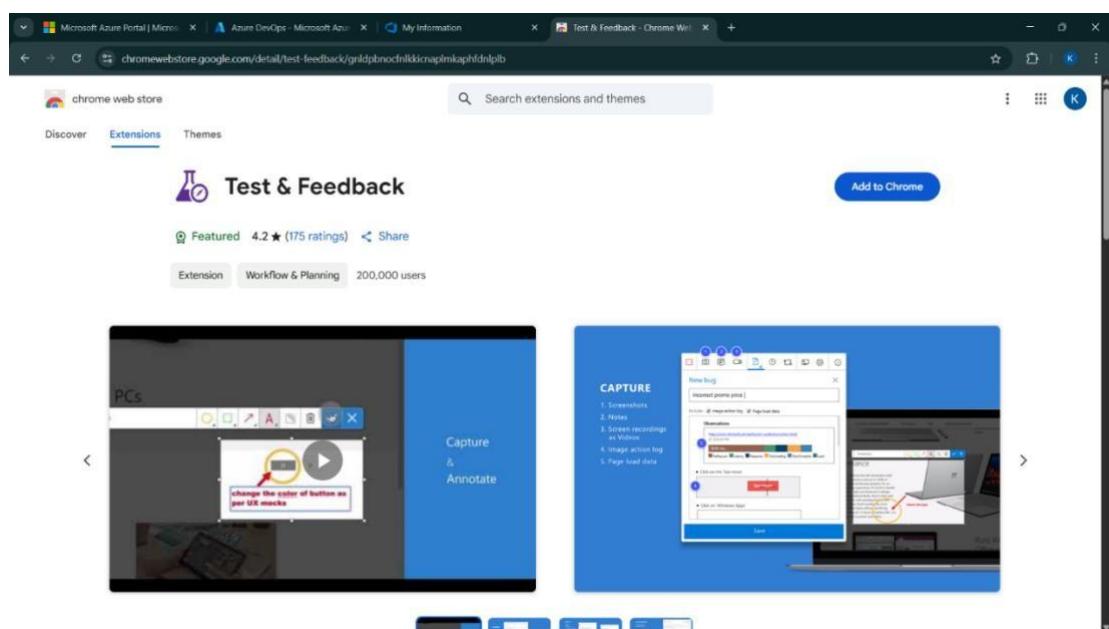
- Action:
 - Open campaign dashboard
- Expected Result:
 - Sales, revenue, and engagement metrics shown
- Type: Happy Path

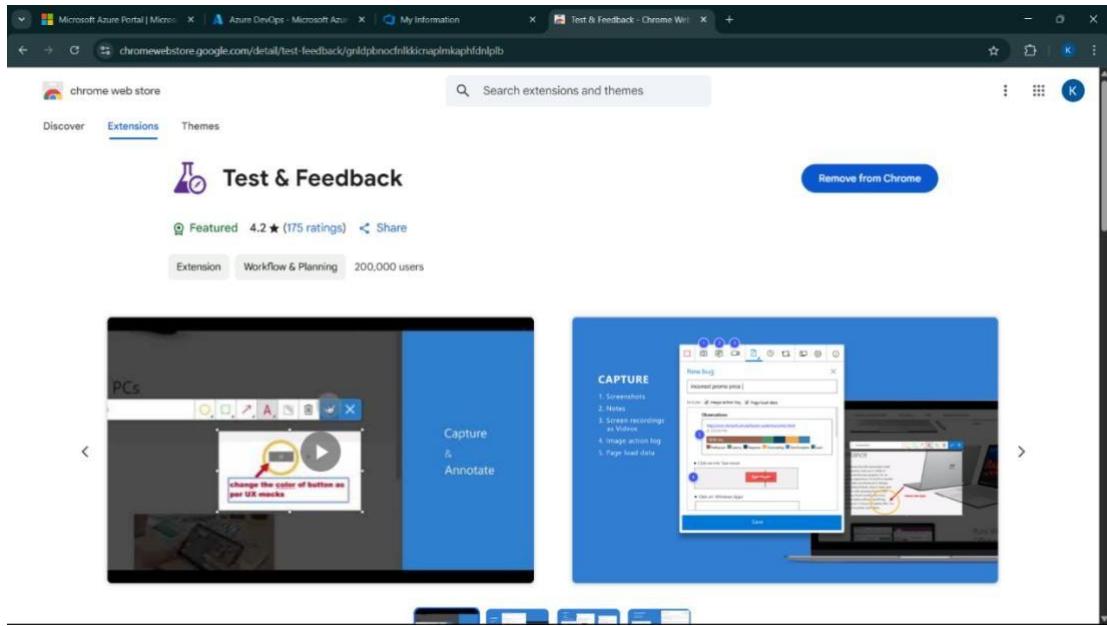
Test Cases





4. Installation of test





Test and feedback

Showing it as an extension

A screenshot of a Microsoft Edge browser window displaying the Azure DevOps Work Items interface. The URL is dev.azure.com/231001049/E-Commerce%20Merchandise/_workitems/edit/43/. The main view shows a work item titled 'TEST CASE 43' with the sub-task '43 - Upload With Invalid Rows'. The task details show an error message: 'Error message: "Row 2: Product Name is required"'. To the right, a floating 'Extensions' panel is open, listing the 'Test & Feedback' extension as installed. Other extensions listed include McAfee WebAdvisor, Material You NewTab, and Manage extensions. The status bar at the bottom shows 'FPS 79' and the date '26-05-2025'.

5. Running the test cases

The screenshot shows the Azure DevOps Test Plan interface. A context menu is open over a test point named "Receive Notification on Status Change". The menu options include:

- View execution history
- Mark Outcome
- Run for web application (selected)
- Run for desktop application
- Edit test case
- Run with options
- View test result

The main interface displays a list of test points under "Test Points (1 item)".

Title	Outcome	Order	Test Case Id	Configuration	Tester
Receive Notification on Status Change	Passed	1	56	Windows 10	Gotham PL

Below the main interface, a smaller window shows the test results for "Receive Notification on Status Change".

Order	Test Case Id	Configuration	Tester
1	56	Windows 10	Gotham PL

The test results show:
1. Order is marked 'Out for Delivery' by system
EXPECTED RESULT: Email and SMS sent to customer

6. Recording the test case

The screenshot shows the "Test Execution Index" page in the Azure DevOps Test Plan. A recording session is active, indicated by the "Recording: 00:00 / 10:00 minutes" status bar.

The left pane lists test steps for "2011 - TC 01 - Validated list of countries displayed on the page in a drop down".

- Open Chrome Browser
EXPECTED RESULT: Browser should open in a new tab
- Paste the URL (<https://127.0.0.1/view.html>)
EXPECTED RESULT: App should load with new articles
- System should show a dropdown with list of countries
- System should show countries in Alphabetic order
EXPECTED RESULT: System listing countries in chronological order

The right pane shows a "Choose what to share" dialog from "Test & Feedback". It offers options to share "Entire Screen" or "Window". A preview of the screen is shown, and a "Share" button is visible at the bottom.

7.Creating the bug

Runner - Test Plans - Google Chrome
dev.azure.com/231001049/E-Commerce%20Merchandise/_testExecution/Index
Save and close Create bug ...
S6: Receive Notification on Status Change
1. Order is marked "Out for Delivery" by system
Expected result:
Email and SMS sent to customer

Rainy days ahead 35°C 13:52 26-05-2025 ENG IN Windows 10
Runner - Test Plans - Google Chrome dev.azure.com/231001049/E-Commerce%20Merchandise/_testExecution/Index
Save and close Create bug ...
S6: Receive Notification on Status Change
1. Order is marked "Out for Delivery" by system
Expected result:
Email and SMS sent to customer
NEW BUG * Field 'Title' cannot be empty.
Enter title
Unassigned 0 comments Add tag
State: New Area: E-Commerce Merchandise
Reason: New Integration: E-Commerce Merchandise/Iteration 1
Repro Steps 28/05/2025 08:22 Bug filed on "Receive Notification on Status Change"
Step no. Result Title
1. None Order is marked "Out for Delivery" by system
Expected result:
Email and SMS sent to customer
Test Configuration: Windows 10
System Info
Original Estimate Remaining Completed
Browser - Name Google Chrome 136
Browser - Language en-US
Browser - Version 136
Browser - Width 1936
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 x64_64
Operating system - Processor mode AMD Ryzen 7 7435H
Operating system - Number of processors 16
Memory - Available 14477975532
Memory - Capacity 2549919932
Display - Pixels per inch (X axis) 96
Display - Pixels per inch (Y axis) 96

8. Test case results

Run ID	Title	Completed Date	Build Number	Failed	Pass Rate
21	23 : As a customer, I want to receive SMS or email notifications when my order is shipped.	28/05/2023 08:23:49		0	100%
20	23 : As a customer, I want to receive SMS or email notifications when my order is shipped.	28/05/2023 08:21:05		0	0%
19	7 : As an admin, I want to see stock levels for all products in one view. (Manual)	23/05/2023 15:49:50		0	100%
18	8 : As an admin, I want low-stock items to be highlighted for quicker restock.	22/05/2023 15:49:37		1	0%
17	18 : As a customer, I want to search products by name or keyword so I can find what I'm looking for.	22/05/2023 15:49:25		0	100%
16	19 : As a customer, I want to filter products by category and price so I can narrow down my search.	22/05/2023 15:49:15		0	100%
15	20 : As a customer, I want to sort products by rating or popularity. (Manual)	22/05/2023 15:48:43		0	100%
14	22 : As a customer, I want to view the current status of my order (e.g., shipped).	22/05/2023 15:48:34		0	100%
13	23 : As a customer, I want to receive SMS or email notifications when my order is shipped.	22/05/2023 15:48:21		0	100%
12	26 : As a marketing manager, I want to generate unique discount codes for my customers.	22/05/2023 15:48:10		1	0%
11	28 : As a marketing manager, I want to apply discount codes to specific products.	22/05/2023 15:47:56		0	100%
10	30 : As a marketing manager, I want to track how many users used a particular discount code.	22/05/2023 15:47:47		0	100%
9	31 : As a marketing manager, I want to measure sales generated from each discount code.	22/05/2023 15:47:37		0	100%
8	3 : As an admin, I want to upload a CSV file of products so that I can add them to the database.	22/05/2023 15:46:41		0	100%
7	5 : As an admin, I want a preview of uploaded products before confirming them.	22/05/2023 15:46:23		0	100%
6	11 : As an admin, I want to get error messages for invalid rows in the file so I can fix them.	22/05/2023 15:45:57		0	100%
5	11 : As an admin, I want to get error messages for invalid rows in the file so I can fix them.	22/05/2023 15:45:54		0	100%
4	7 : As an admin, I want to see stock levels for all products in one view. (Manual)	22/05/2023 15:05:06		0	0%
3	5 : As an admin, I want a preview of uploaded products before confirming them.	22/05/2023 15:03:36		0	0%

9. Test report summary

BUG 203: BG 01 - Countries Drop down Not Available on the page

rajesh prabhu

0 Comments Add Tag

State: New

Reason: New

Repro Step: Active

5/19/2023 AM

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

Planning

Resolved Reason

Story Points

Priority: 2

Serious: 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.

Effort (Hours)

Original Estimate

Related Work

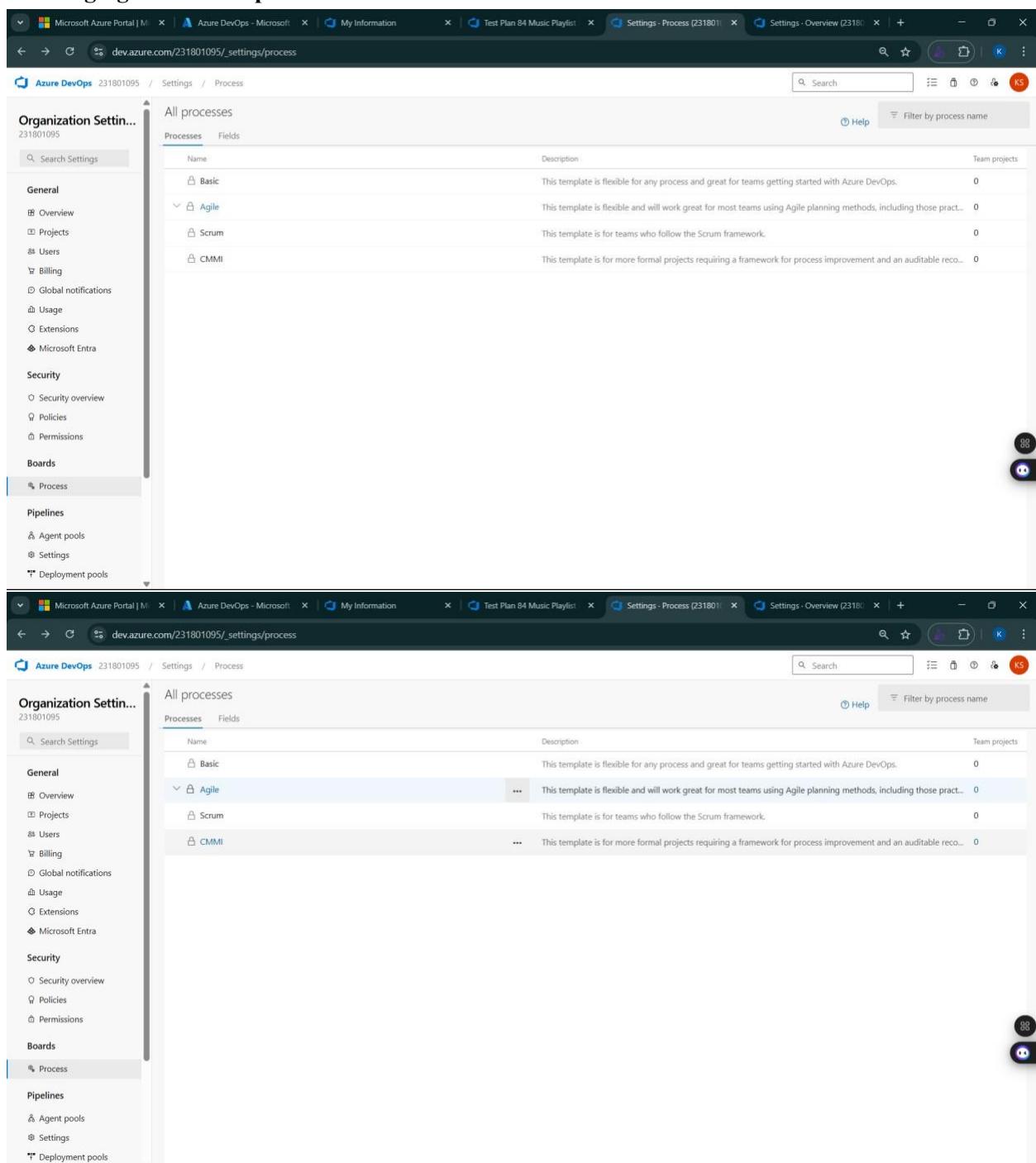
- Assigning bug to the developer and changing state

The screenshot shows a detailed view of a bug report in the Azure DevOps Test Plan interface. The report is titled "Run 48 - TS02 - View Playlists (Manual) / TC06 – Playlist Loading Failure". The bug is identified as "92 TB01 - Playlist loading spinner keeps spinning indefinitely on poor network". The report includes a description of the issue, steps to reproduce, and a screenshot of the error message. The "Repro Steps" section details two failed steps: disconnecting from the internet and navigating to "My Playlists". The "Test Configuration" section specifies Windows 10. The "Planning" and "Deployment" sections provide metadata like priority (2), severity (3 - Medium), and activity. The "Development" section links to an Azure Repos commit. The "Related Work" section lists a related work item. The "System Info" section shows the test was run by Karthick S on 10-04-2025.

10. Progress report

The screenshot displays the "Progress report" section of the Azure DevOps interface for the "E-Commerce Merchandise Team_Stories_Iteration 1" test plan. The summary shows 1 test plan, 12 test points, and 12 (12/12) test points run, with a 100% pass rate. A donut chart indicates 9 Passed, 2 Failed, and 1 Not applicable. An outcome trend chart tracks progress from May 14 to May 28, showing a sharp increase in green (Passed) and red (Failed) areas after May 21. The details section provides a breakdown of the test plan name and its results.

11. Changing the test template



The screenshot shows the Azure DevOps Settings - Process page. The left sidebar is titled "Organization Settings" and includes sections for General, Security, and Boards. Under Boards, the "Process" tab is selected. The main content area is titled "All processes" and lists four templates: Basic, Agile, Scrum, and CMMI. The Agile template is currently selected, indicated by a blue background and a three-dot ellipsis icon next to its name.

Name	Description	Team projects
Basic	This template is flexible for any process and great for teams getting started with Azure DevOps.	0
Agile	This template is flexible and will work great for most teams using Agile planning methods, including those 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' section of the Azure DevOps Settings - Process page. The 'Agile' template is selected, specifically '231801095 Agile (default)'. The page includes a search bar, a help link, and a filter by process name button. The left sidebar shows navigation options like General, Security, Boards, Pipelines, and Process.

12. View the new test case template

The screenshot shows the 'Add a field to Test Case' dialog box. It has tabs for Definition, Options, and Layout. Under Definition, the 'Create a field' option is selected, with fields for Name (set to 'Type'), Type (set to 'Text (single line)'), and Description. The 'Acceptance Criteria' field is also visible. Buttons for 'Add field' and 'Cancel' are at the bottom. The background shows the 'All processes' list from the previous screenshot.

The screenshot shows the 'Process' section of the Azure DevOps settings. The left sidebar has 'Process' selected under 'Boards'. The main area displays a table for 'All processes > 231801095 Agile'. There is one entry: 'Music Playlist Batch Creator' with a description: 'The Azure Music Playlist Batch Creator is a cloud-based solution designed for bulk playlist creation and management. Levera...'. The table includes columns for 'Name' and 'Description'.

The screenshot shows the 'Test Case' configuration page. The left sidebar has 'Process' selected under 'Boards'. The main area shows a 'Steps' section with a 'Text (multiple lines)' input field. To the right, a 'Custom' section is expanded, showing a 'Type' field set to 'text (single line)'. A 'Recent test results' section lists 'Recent test case results'. Other collapsed sections include 'Deployment', 'Development', 'Related Work', and 'Status'.

Result:

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

EXP NO: 9

LOAD TESTING AND PERFORMANCE TESTING

Aim:

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

Load Testing

Steps to Create an Azure Load Testing Resource:

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

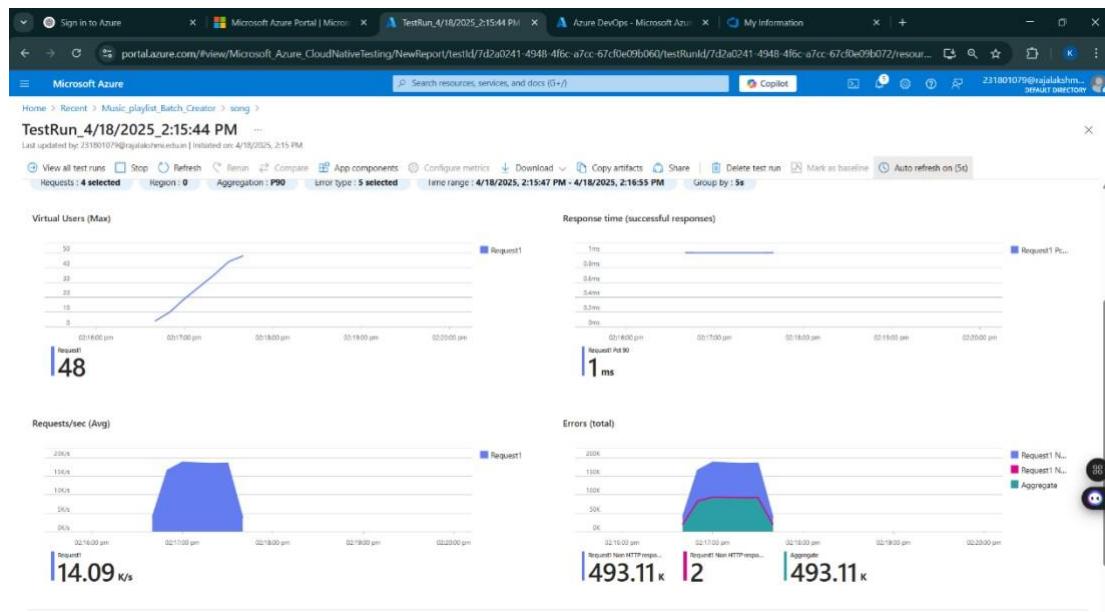
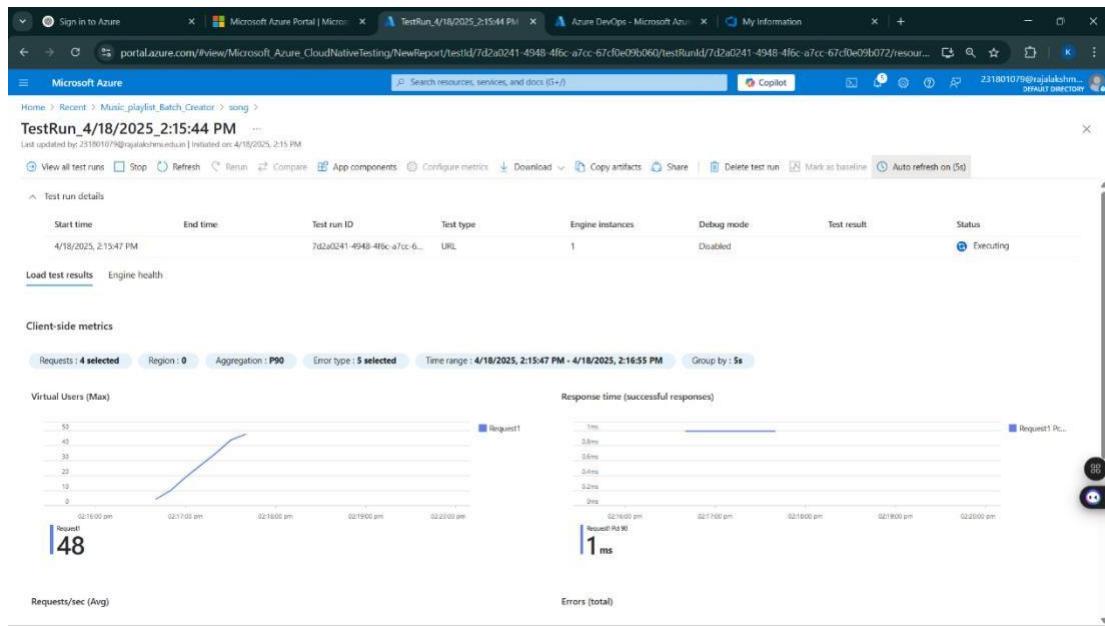
1. Sign in to Azure Portal
Go to <https://portal.azure.com> and log in.
2. Create the Resource Go to *Create a resource* → Search for “Azure Load Testing”.
 Select Azure Load Testing and click Create.
3. Fill in the Configuration Details Subscription: Choose your Azure subscription. Resource Group: Create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

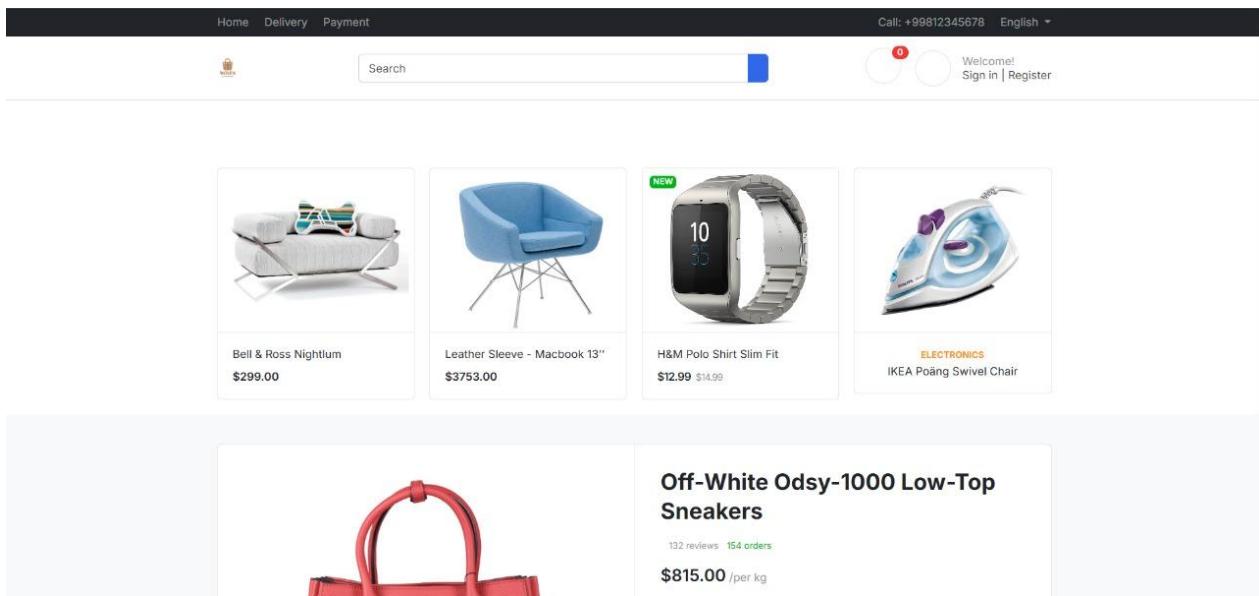
Steps to Create and Run a Load Test:

Once your resource is ready:

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

Load Testing





Result:

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

EXP NO: 10

GITHUB: PROJECT STRUCTURE & NAMING CONVENTIONS

Aim:

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

GitHub Project Structure

The screenshot shows a GitHub repository interface. The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Security, Insights, and Settings. The main area displays the repository structure under the path SC / ecomm / . The left sidebar shows a tree view of files and folders: main, accounts (with __pycache__), migrations (with __pycache__, 0001_initial.py, __init__.py), admin.py, apps.py, models.py, and tests.py. The right pane shows a list of files with their names, last commit messages (all "SC"), and last commit dates (all "1 minute ago").

Name	Last commit message	Last commit date
..	SC	1 minute ago
__pycache__	SC	1 minute ago
__init__.py	SC	1 minute ago
asgi.py	SC	1 minute ago
settings.py	SC	1 minute ago
urls.py	SC	1 minute ago
wsgi.py	SC	1 minute 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 codebase.