

## INDEX

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<b>EXP NO: 1</b> <b>Date :</b>	<h1 style="text-align: center;">AZURE DEVOPS ENVIRONMENT SETUP</h1>
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## Aim:

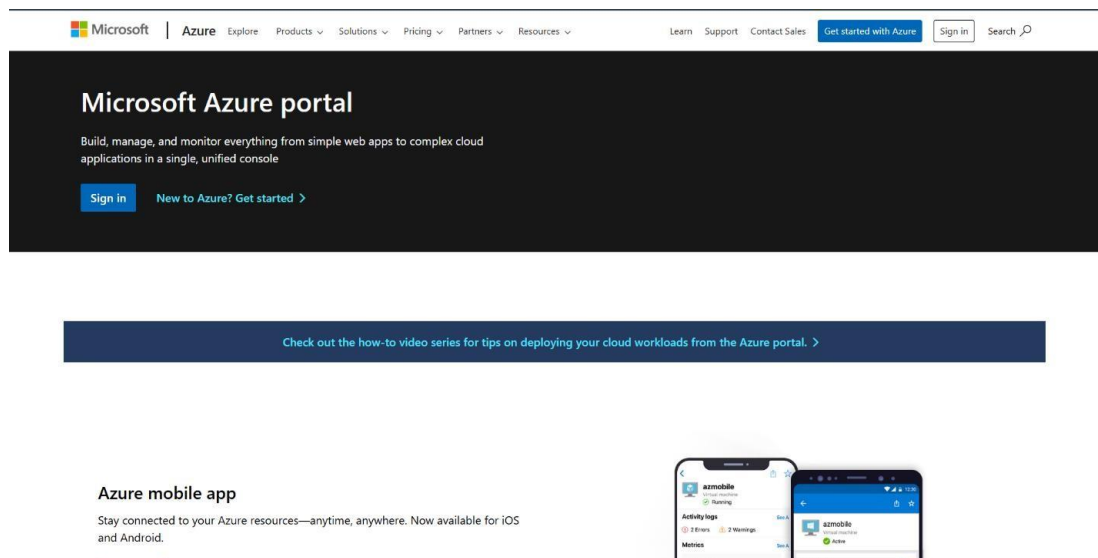
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

## INSTALLATION

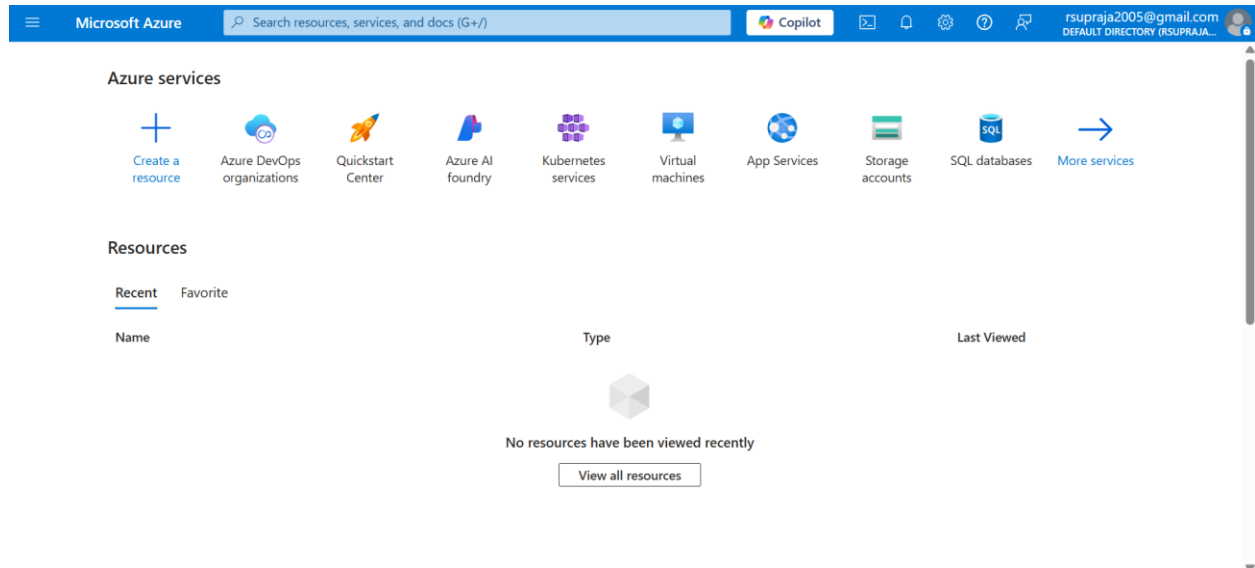
1. Open your web browser and go to the Azure website: <https://azure.microsoft.com/en-us/getstarted/azure-portal>.

Sign in using your Microsoft account credentials.

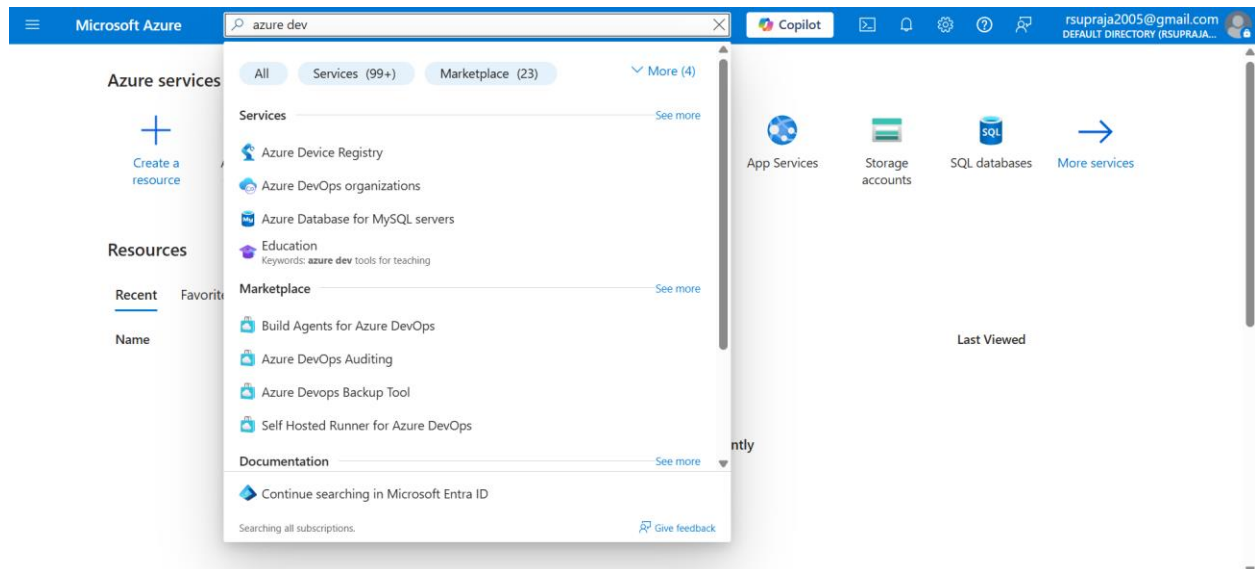
If you don't have a Microsoft account, you can create one here: <https://signup.live.com/?lic=1>



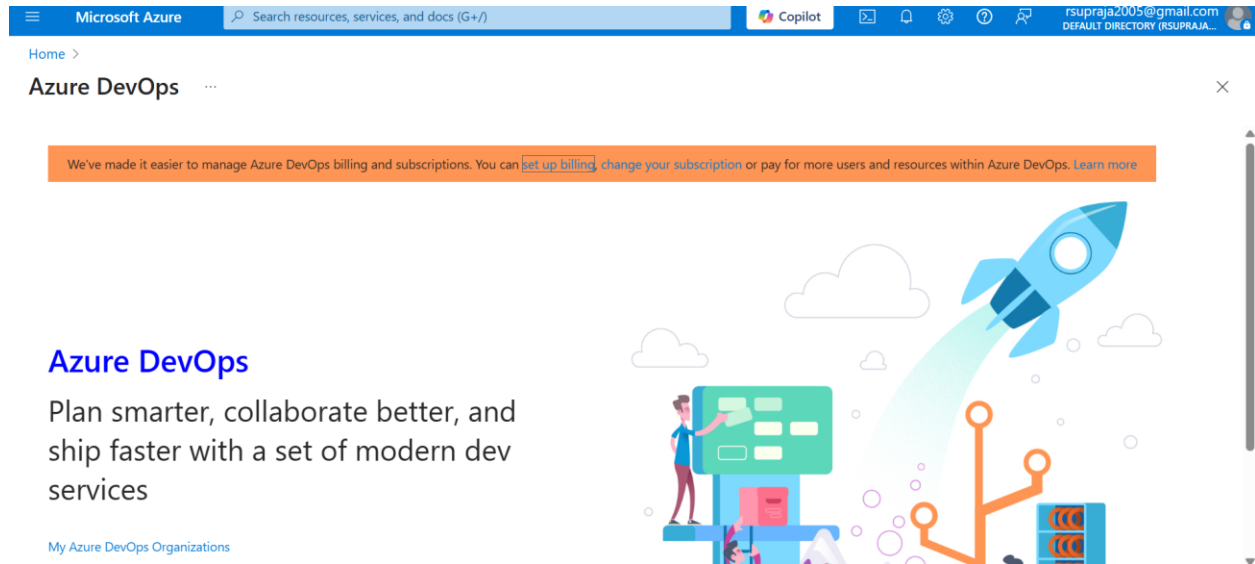
## 2. Azure home page



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



3. 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:**

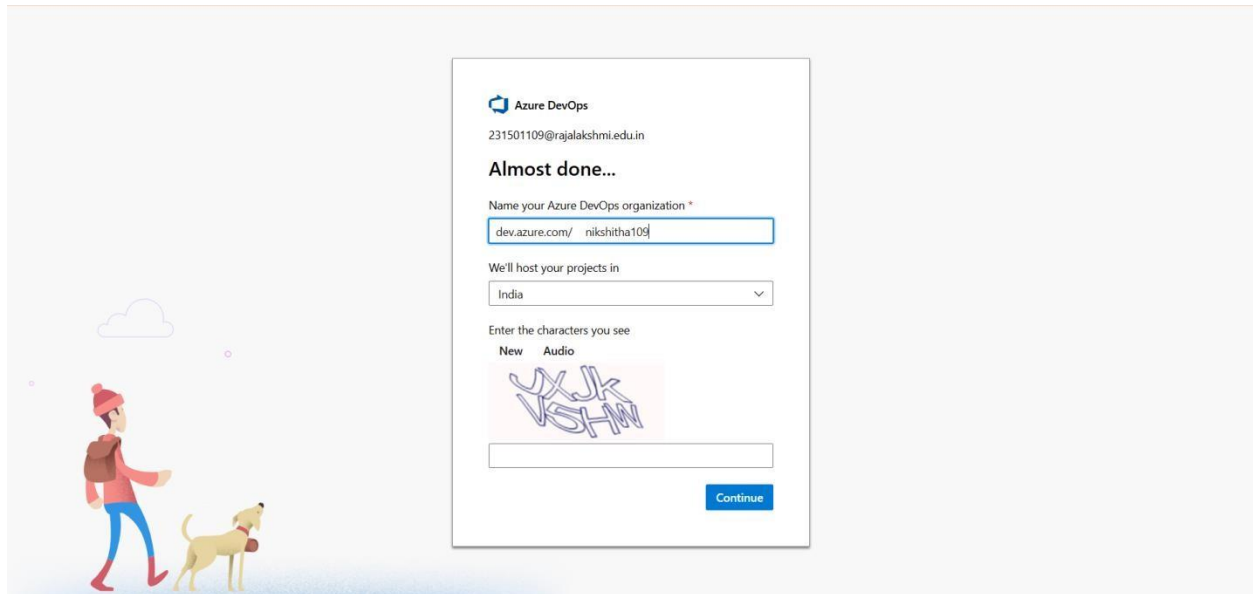
Successfully accessed the Azure DevOps environment and created a new organization through the Azure portal.

<b>EXP NO: 2</b> <b>Date :</b>	<h1 style="text-align: center;">AZURE DEVOPS PROJECT SETUP AND USER STORY MANAGEMENT</h1>
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### **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.

organization policies.' At the bottom right is an 'Advanced' link with a dropdown arrow."/>

**Create new project** ×

Project name \*

SMS Message Textingg

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

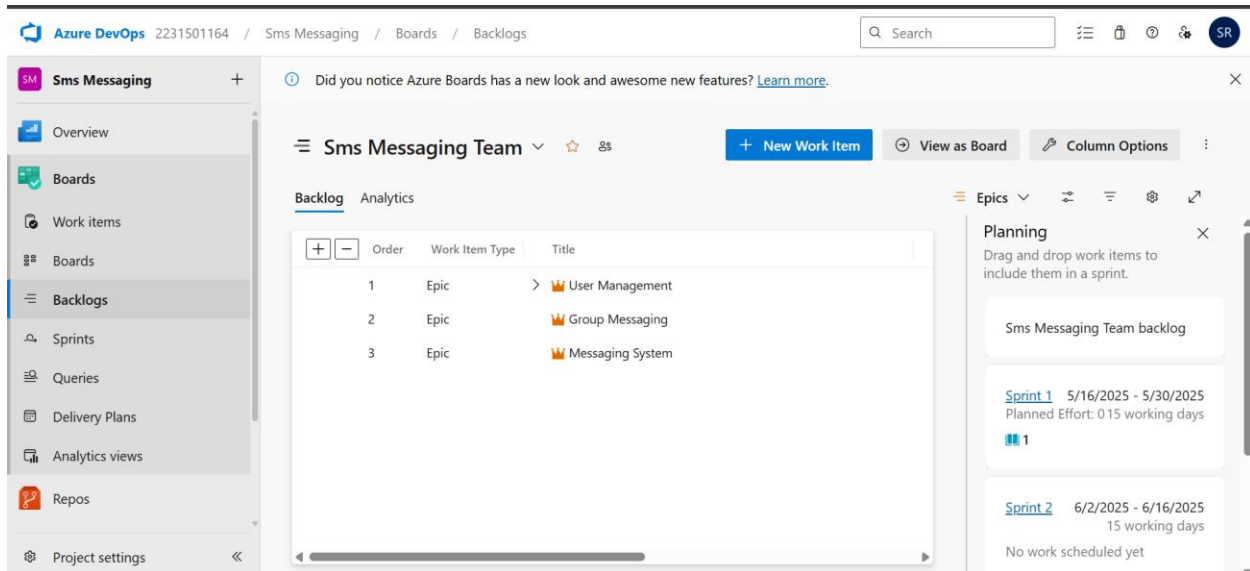
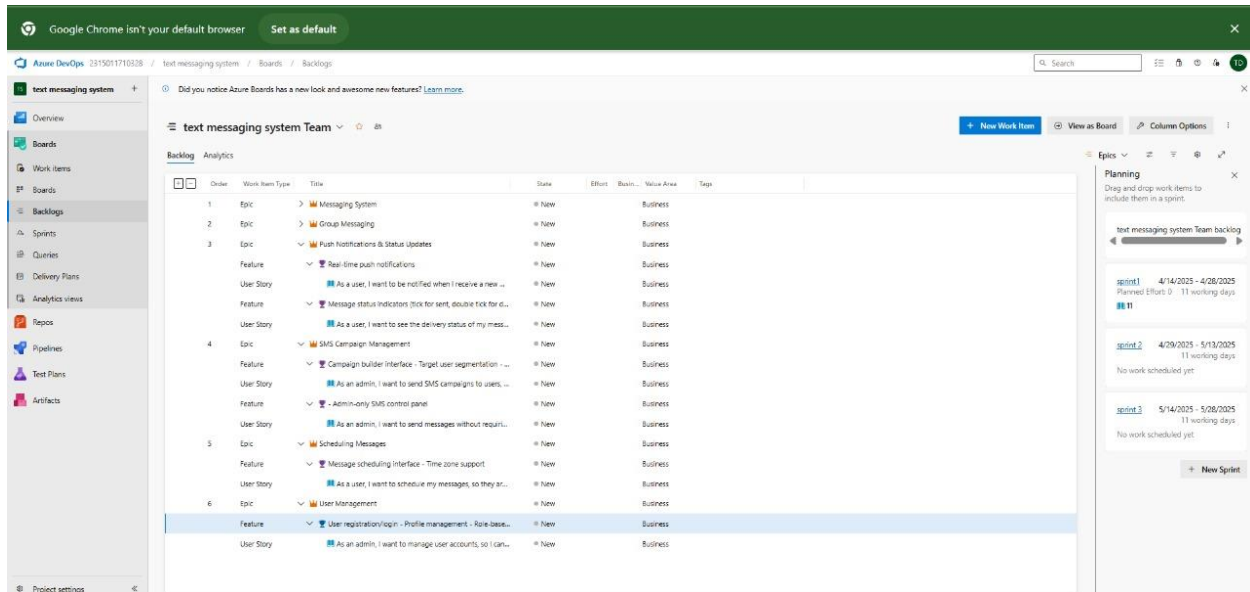
- 3.** Once logged in, ensure you are in the correct organization. If you're part of multiple organizations, you can switch between them from the top left corner (next to your user profile). Click on the Organization name, and you should be taken to the Azure DevOps Organization Home page.

## 4. Project dashboard

## 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.



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



EXP NO: 3  
Date :

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

## Aim:

To create epics, user stories, features, and tasks for the project, Batch Data Analysis and Visualization.

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

The screenshot displays the Azure DevOps interface for a project named 'text messaging system'. The left sidebar shows the navigation menu with options like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area shows the 'Backlog' view for the 'text messaging system Team'. The backlog is organized into a table with columns: Order, Work Item Type, Title, State, Effort, Business Area, and Tags. The items are listed in descending order of priority. The right sidebar shows the 'Planning' view, which includes a timeline for sprints and a 'New Sprint' button.

Order	Work Item Type	Title	State	Effort	Business Area	Tags
1	Epic	Messaging System	New		Business	
2	Epic	Group Messaging	New		Business	
3	Epic	Push Notifications & Status Updates	New		Business	
	Feature	Real-time push notifications	New		Business	
	User Story	As a user, I want to be notified when I receive a new...	New		Business	
	Feature	Message status indicators (tick for sent, double tick for d...	New		Business	
	User Story	As a user, I want to see the delivery status of my mess...	New		Business	
4	Epic	SMS Campaign Management	New		Business	
	Feature	Campaign builder interface - Target user segmentation - ...	New		Business	
	User Story	As an admin, I want to send SMS campaigns to users, ...	New		Business	
	Feature	- Admin-only SMS control panel	New		Business	
	User Story	As an admin, I want to send messages without requir...	New		Business	
5	Epic	Scheduling Messages	New		Business	
	Feature	Message scheduling interface - Time zone support	New		Business	
	User Story	As a user, I want to schedule my messages, so they an...	New		Business	
6	Epic	User Management	New		Business	
	Feature	User registration/login - Profile management - Role base...	New		Business	
	User Story	As an admin, I want to manage user accounts, so I can...	New		Business	

## 2.Fill in Epics

The screenshot shows the Azure DevOps interface for the 'Sms Messaging Team' backlog. The left sidebar contains navigation links: Overview, Boards, Work items, Boards, Backlogs (selected), Sprints, Queries, Delivery Plans, Analytics views, Repos, and Project settings. The main area displays the 'Backlog' tab with a table of work items. The table has columns for Order, Work Item Type, and Title. The items are:

Order	Work Item Type	Title
1	Epic	User Management
	Feature	User registration/login
	User Story	Admin access
2	Epic	Group Messaging
3	Epic	Messaging System

On the right, the 'Epics' section shows a list of sprints: 'Sprint 1' (5/16/2025 - 5/30/2025, 015 working days) and 'Sprint 2' (6/2/2025 - 6/16/2025, 15 working days). A message indicates 'No work scheduled yet'.

## 3. Fill in Features

The screenshot shows the 'NEW USER STORY' form in Azure DevOps. The title is 'Real time notifications'. The form is divided into several sections:

- Description:** A text area with the placeholder 'Click to add Description.'
- Acceptance Criteria:** A text area with the placeholder 'Click to add Acceptance Criteria.'
- Discussion:** A text area for discussion.
- Planning:** Fields for Story Points, Priority (set to 2), and Risk.
- Classification:** Fields for Value area and Business.
- Deployment:** A section with a message: '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:** A section with an 'Add link' button.

The form also includes a 'Save and Close' button and a 'Details' tab.

## 4.Fill in User Stories

USER STORY 3

3 As a user, I want to be able to upload multiple CSV files at once, so I can analyze them together.

No one selected0 CommentsAdd TagSave and CloseFollowDetails20

StateNew

AreaBatch data analysis and visualization

ReasonNew

IterationBatch data analysis and visualization\Sprint 1

Updated by Shri Dharshini: Mar 27

Description

Click to add Description.

Acceptance Criteria

Click to add Acceptance Criteria.

Discussion

30

Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request.

switch to Markdown editor

Planning

Story Points

Priority2

Risk

Classification

Value area

Business

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

**Result:** Thus, epics, features, user stories, and tasks have been created successfully.

EXP NO: 4

Date :

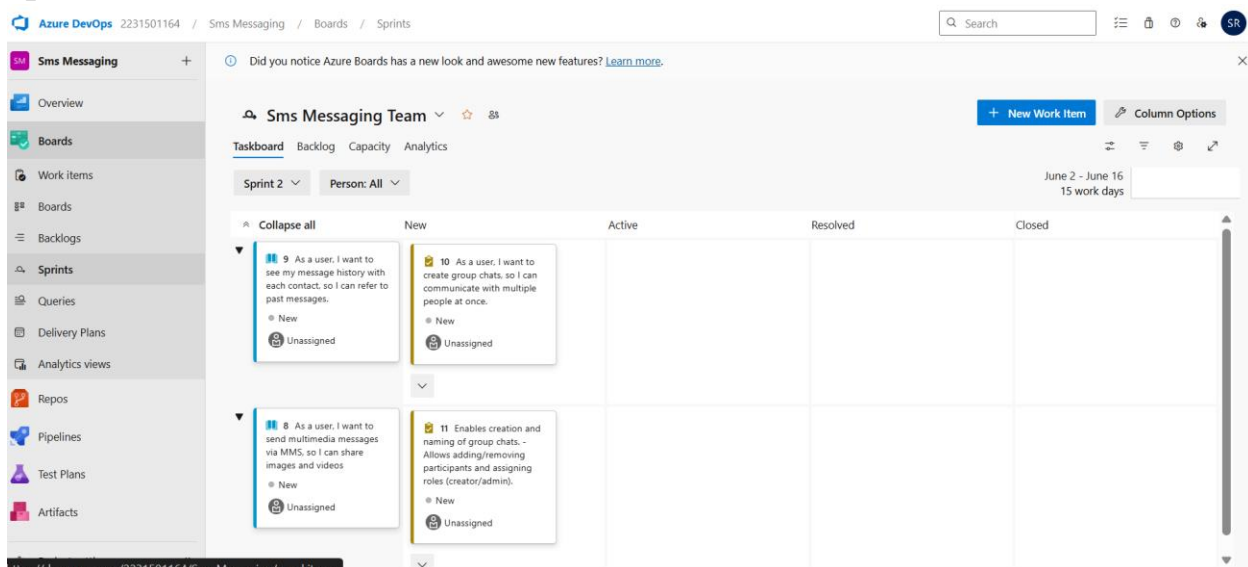
# SPRINTPLANNING

## Aim:

To assign a user story to a specific sprint for the project, Batch Data Analysis and Visualization.

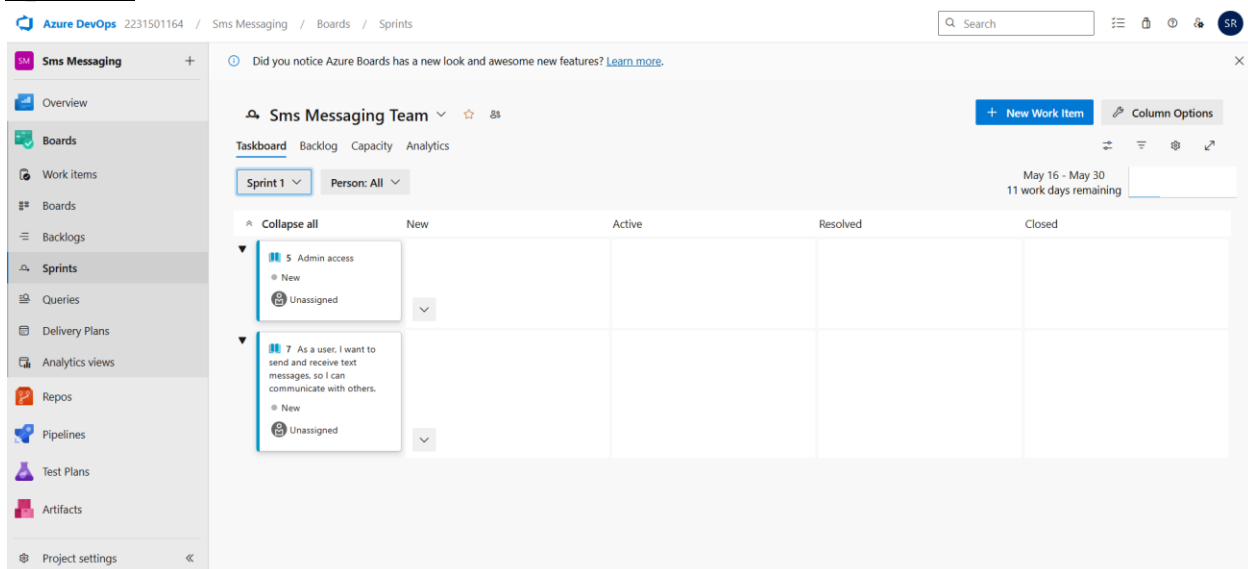
## SPRINT PLANNING

### Sprint 1



The screenshot shows the Azure DevOps Sprints board for the 'Sms Messaging Team'. The board is titled 'Sprint 2' and shows a timeline from June 2 to June 16, with 15 work days remaining. The board is divided into columns: New, Active, Resolved, and Closed. There are four user stories visible in the 'New' column, each with a description and a 'New' status. The board also includes a search bar, a 'New Work Item' button, and a 'Column Options' button. The left sidebar shows the project structure with 'Sms Messaging' selected.

### Sprint 2



The screenshot shows the Azure DevOps Sprints board for the 'Sms Messaging Team'. The board is titled 'Sprint 1' and shows a timeline from May 16 to May 30, with 11 work days remaining. The board is divided into columns: New, Active, Resolved, and Closed. There are two user stories visible in the 'New' column, each with a description and a 'New' status. The board also includes a search bar, a 'New Work Item' button, and a 'Column Options' button. The left sidebar shows the project structure with 'Sms Messaging' selected.

## Sprint 3

The screenshot shows the Azure DevOps Sprints interface for the 'Sms Messaging Team'. The left sidebar contains navigation links: Overview, Boards, Work items, Backlogs, Sprints (selected), Queries, Delivery Plans, Analytics views, Repos, and Project settings. The main area displays the 'Taskboard' for 'Sprint 3' (June 17 - July 1, 15 work days). The board has columns for New, Active, Resolved, and Closed. Two work items are visible in the 'New' column:

- Item 13: As a user, I want to see the delivery status of my messages. (New, Unassigned)
- Item 12: As a user, I want to be notified when I receive a new message. (New, Unassigned)

Each item has a 'New' button and an 'Unassigned' status indicator. The interface also includes a search bar, a 'New Work Item' button, and 'Column Options'.

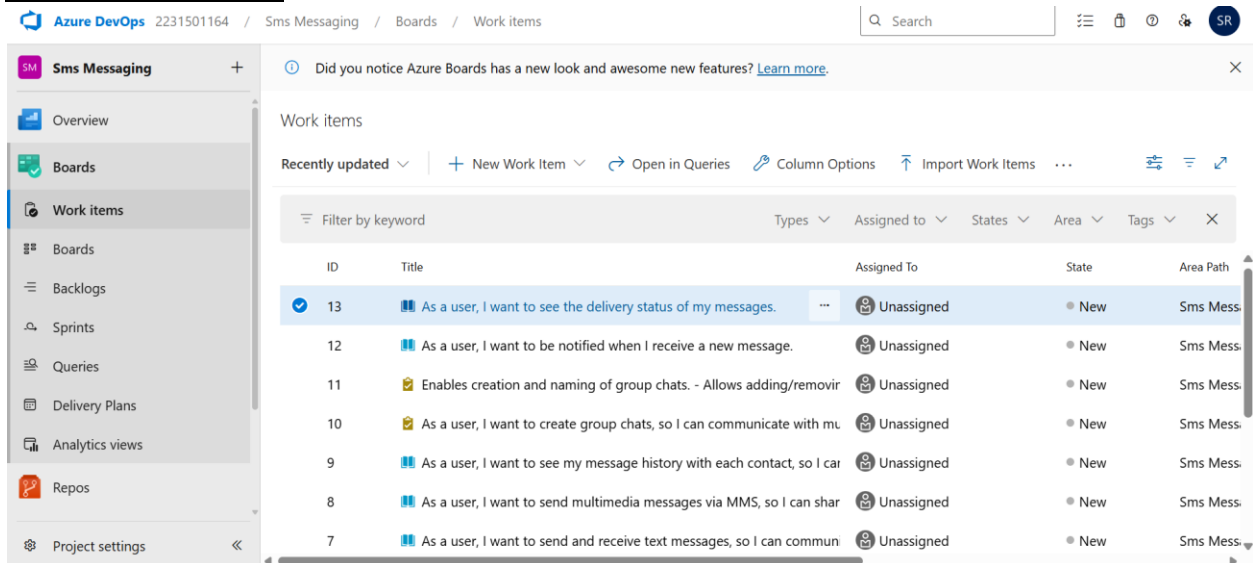
**Result:** The Sprints are created for the project, Batch Data Analysis and Visualization.

<b>EXP NO: 5</b> <b>Date :</b>	<h1>POKERESTIMATION</h1>

## Aim:

Create Poker Estimation for the user stories for the project, Batch Data Analysis and Visualization.

## Poker Estimation



**Work items**

Recently updated ▾ | + New Work Item ▾ | ↗ Open in Queries | 🔗 Column Options | ⬆ Import Work Items | ... | ⚙️ | 🔍 | ⓘ | ⚙️ | SR

Filter by keyword | Types ▾ | Assigned to ▾ | States ▾ | Area ▾ | Tags ▾ | X

ID	Title	Assigned To	State	Area Path
13	As a user, I want to see the delivery status of my messages.	Unassigned	New	Sms Mess.
12	As a user, I want to be notified when I receive a new message.	Unassigned	New	Sms Mess.
11	Enables creation and naming of group chats. - Allows adding/removir	Unassigned	New	Sms Mess.
10	As a user, I want to create group chats, so I can communicate with mu	Unassigned	New	Sms Mess.
9	As a user, I want to see my message history with each contact, so I car	Unassigned	New	Sms Mess.
8	As a user, I want to send multimedia messages via MMS, so I can shar	Unassigned	New	Sms Mess.
7	As a user, I want to send and receive text messages, so I can commun	Unassigned	New	Sms Mess.

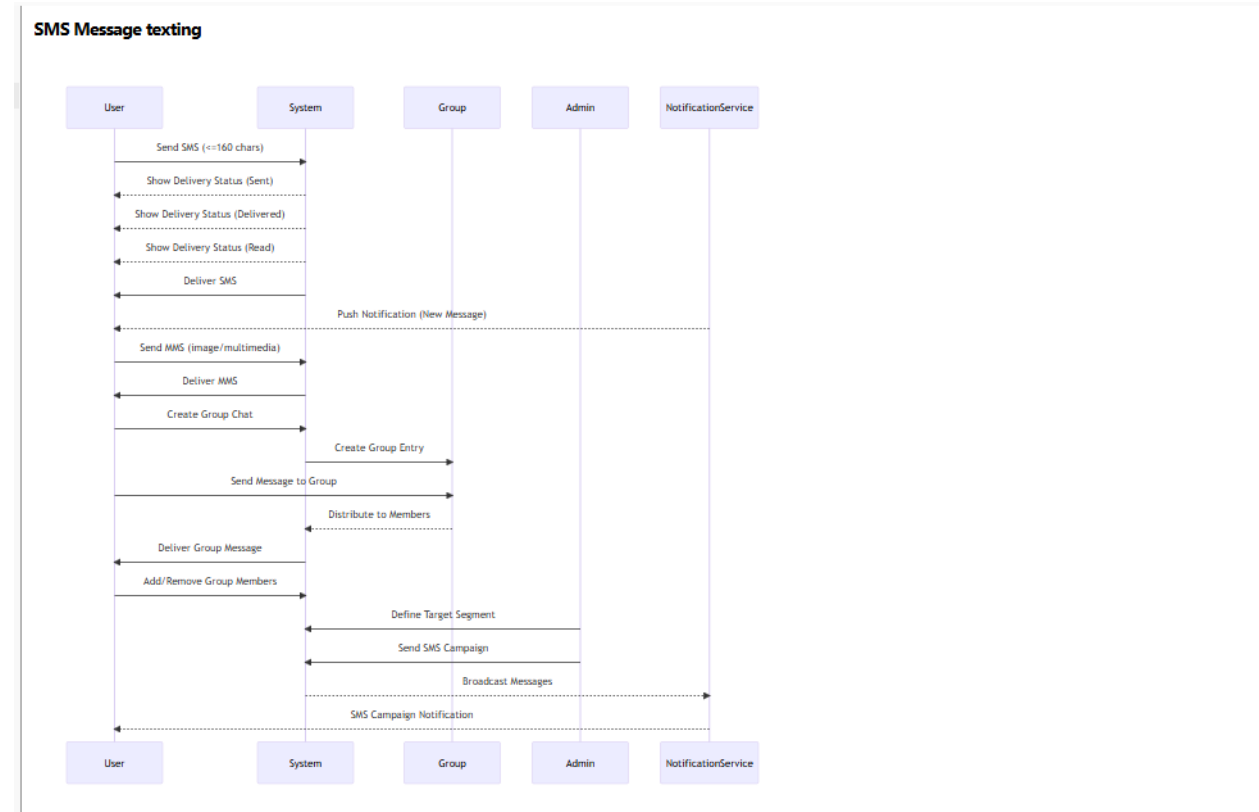
**Result:** The Estimation/Story Points is created for the project using Poker Estimation.

<b>EXP NO: 6</b> <b>Date :</b>	<b>DESIGNING CLASS DIAGRAM AND SEQUENCE DIAGRAM</b>

**Aim:**

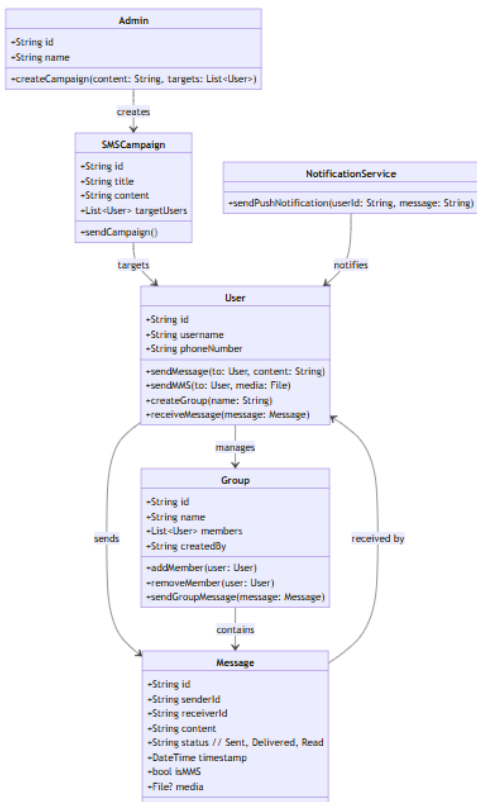
To design a Class Diagram and Sequence Diagram for the project, Batch Data Analysis and Visualization.

**6A. Class Diagram**



## 6B. Sequence Diagram

SMS Message texting Class diagram



**Result:** The Class and Sequence Diagrams are designed successfully for the project, SMS Message System.

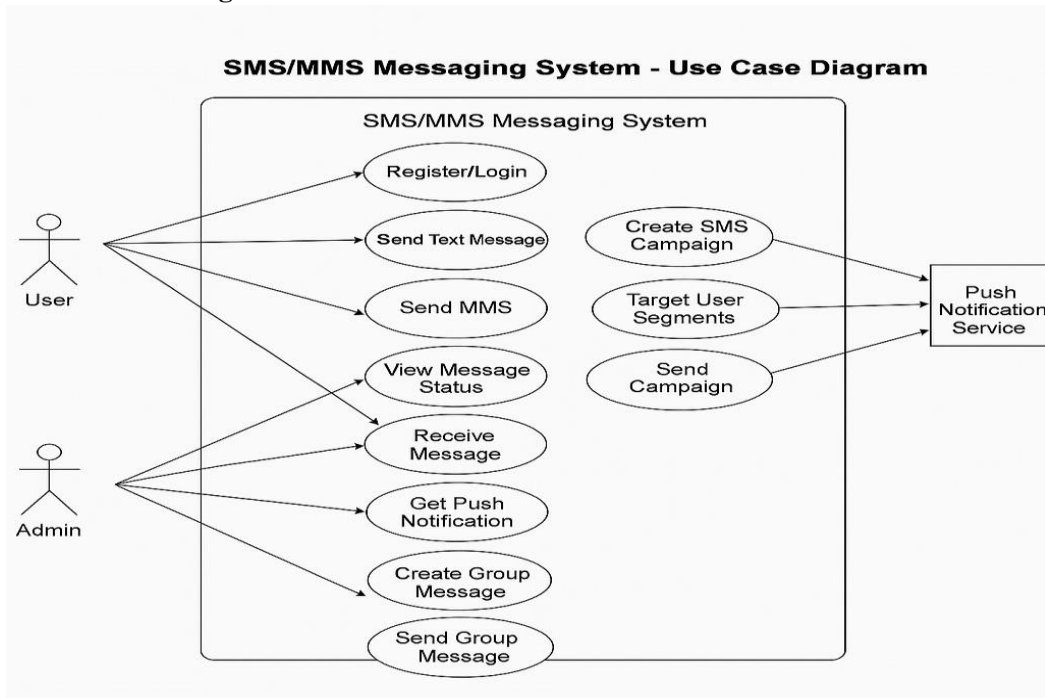


<b>EXP NO: 7</b> <b>Date :</b>	<b>DESIGNING USE CASE DIAGRAM AND ACTIVITY</b>  <b>DIAGRAM</b>

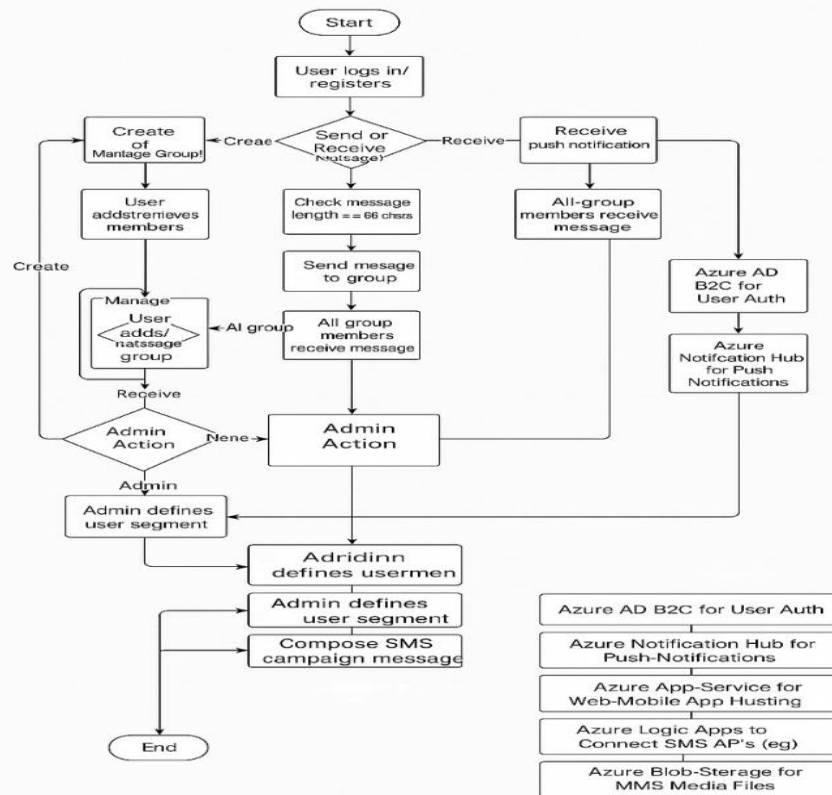
**Aim:**

To design a Use Case Diagram and an Activity Diagram for the project, SMS Messaging System

**7A. Use Case Diagram**



## 7B. Activity Diagram



**Result:** The Use Case and Activity Diagrams are designed successfully for the project, Batch Data Analysis and Visualization.



<b>EXP NO: 8</b> <b>Date :</b>	<b>TESTING – TEST PLANS AND TEST CASES</b>
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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**

1. User Authentication
2. Uploading and Managing Batch Data Files
3. Running Batch Analysis Jobs
4. Viewing Interactive Visualizations and Charts
5. Exporting Analysis Results

**2. Define User Interactions**

- Simulate real scenarios (e.g., upload dataset, trigger job, download result).

**3. Design Happy Path Test Cases**

- Validate all main functions work properly (e.g., successful login, upload, and visualization).

**4. Design Error Path Test Cases**

- Simulate unexpected or invalid user behavior (e.g., upload fails, unsupported file, job timeout).

**5. Break Down Steps and Expected Results**

- Each test case includes step-by-step actions and expected outcomes.

**6. Use Clear Naming and IDs**

- Example: TC01 – Successful File Upload, TC08 – Visualization Fails.

**7. Separate Test Suites**

- Suites grouped by modules (Login, File Upload, Job Execution, Visualization, Export).

## 8. Prioritize and Review

- Critical test cases marked as High Priority.
- Mapped to user stories in Azure DevOps.

### 1.New test plan

Azure DevOps 2231501164 / Sms Messaging / Test Plans

Search

**New Test Plan**

Name \*  
Login

Area Path \*  
Sms Messaging

Iteration \*  
Sms Messaging\Sprint 3 6/17/2025 - 7/1/2025

Create Cancel

## 2.Test suite

Azure DevOps 2231501164 / Sms Messaging / Test Plans / Login

Jun 17 - Jul 1 Future

**Test Suites**

Filter suites by name

Login

- chats display
- dashboard check

Define Execute Ch

### 3. Test case

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

Batch Data Analysis and Visualization – Test Plans

### USER STORIES

- As a user, I want to log in using my username and password so that I can access my account.
- As a user, I should not be able to submit the login form with empty fields so that I can provide the required data.
- As a user, I want to log out when I click the logout button so that I can end my session securely.
- As a user, I want to be redirected to the login page after logging out so that I know my session has ended and I can log in again if needed.
- As a user, I want to be able to upload multiple CSV files at once, so I can analyze them together.

### Test Suites

**Test Suite: TS01 - User Authentication (ID: 54)**

**1. TC01 – Successful Login** ○

**Action:**

- Navigate to the login page
- Enter valid credentials
- Click "Login" ○

**Expected Results:**

- User redirected to dashboard.

○ **Type:** Happy Path

**2. TC02 – Prevent Login with**

**Empty Fields** ○ **Action:**

- Navigate to the login page.
- Leave username and/or password fields empty.
- Click on "Login".

○ **Expected Results:**

- Validation error message is shown prompting user to fill required fields.
- **Type:** Error Path ○

## **Test Suite: TS02 - Logout Functionality(ID: 47)**

### **1. TC03 – Successful Logout and Redirect ○**

#### **Action:**

- Log in successfully.
- Click the "Logout" button.
- **Expected Results:**
  - User session ends.
  - User is redirected to the login page.
- **Type:** Happy Path

### **2. TC04– Access Protected Page After**

#### **Logout ○ Action:**

- Logout.
- Attempt to navigate back to a protected page (e.g., dashboard) via browser back button or URL.
- **Expected Results:**
  - User is redirected to the login page and denied access.
- **Type:** Error Path

## **Test Suite: TS03 - CSV Upload Functionality (ID: 88)**

### **1. TC05 – Upload Multiple Valid CSV Files ○**

#### **Action:**

- Log in successfully
- Navigate to the CSV upload section
- Select multiple valid .csv files
- Click "Upload"
- **Expected Results:**
  - All files are uploaded successfully.
  - Files are listed and ready for analysis.
- **Type:** Happy Path

## 2. TC06 – Upload Attempt Without Selecting

### Files ○ Action:

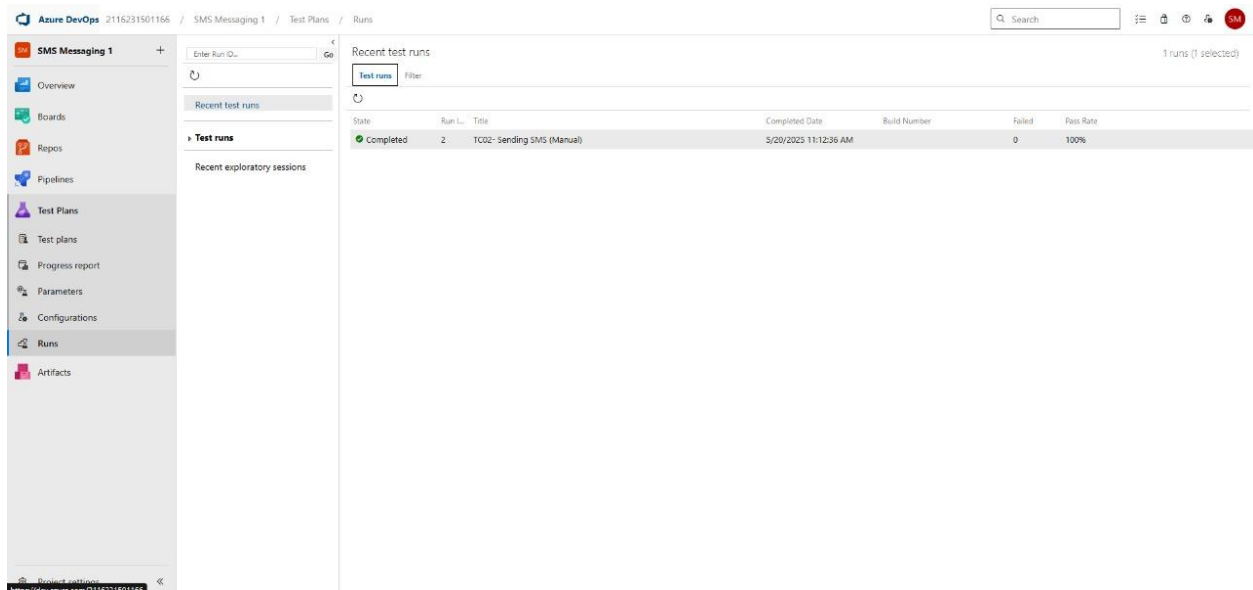
- Navigate to the CSV upload section
- Click "Upload" without selecting any files.

### ○ Expected Results:

- Validation message prompting the user to select at least one file.

Type: Error Path

## Test Cases



The screenshot displays the Azure DevOps interface for a project named 'SMS Messaging 1'. The left sidebar shows the navigation menu with 'Runs' selected. The main area shows the 'Recent test runs' section. A table lists the test runs, with one run completed successfully.

State	Run L...	Title	Completed Date	Build Number	Failed	Pass Rate
Completed	2	TC02- Sending SMS (Manual)	5/20/2025 11:12:36 AM		0	100%

Test and feedback

Showing it as an extension



## 4. Running the test cases

Azure DevOps 2116231501166 / SMS Messaging 1 / Test Plans

Search

SMS Messaging 1

Overview

Boards

Repos

Pipelines

**Test Plans**

Test plans

Progress report

Parameters

Configurations

Runs

Artifacts

Project settings

### Test Plans

New Test Plan


Filter by title

State Area Path Iteration Assigned To

Title	Test Plan ID	State	Area Path	Iteration	Assigned To
TC01-Register and Login	11	Active	SMS Messaging 1	SMS Messaging 1\Sprint 1	Surya Mv

Loading completed

...



Your response was submitted.

Important thing you can do next


Save my response

[Submit another response](#)

Microsoft Forms

Get set for your own event invitation!

Start now →



Microsoft 365

Microsoft Forms | AI-Powered surveys, quizzes and polls. [Create my own form](#)

Privacy and cookies | Terms of use

Azure DevOps

2116231501166 / SMS Messaging 1 / Test Plans

Search

☰ ⚙️ 🔔

SM

SMS Messaging 1

+

Overview

Boards

Repos

Pipelines

Test Plans

Test plans

Progress report

Parameters

Configurations

Runs

Artifacts

Project settings

⏪

Test Plans

+ New Test Plan

Mine All

Title	Test Plan ID	State	Area Path	Iteration	Assigned To	☆
My Favorites						
No favorites yet! Favorite 🌟 a test plan to quickly access it!						
88 SMS Messaging 1 Team						

Azure DevOps 2116231501166 / SMS Messaging 1 / Test Plans

Search

SMS Messaging 1

Overview

Boards

Repos

Pipelines

Test Plans

Test plans

Progress report

Parameters

Configurations

Runs

Artifacts

Project settings

### New Test Plan

Name \*

Enter a plan name

Area Path \*

SMS Messaging 1

Iteration \*

SMS Messaging 1\Sprint 1 5/16/2025 - 5/29/2025

Create Cancel

## 8.Test case results

#20250518.1 • Set up CI with Azure Pipelines

Failed Messaging

Rerun failed jobs Run new

This run will be cleaned up after 1 month based on your project settings.

Summary Code Coverage

Individual CI by Supraja R

Repository and version

Sms Messaging

main c6d3cd8f

Time started and elapsed

Just now

<1s

Related

0 work items

0 artifacts

Tests and coverage

Get started

View 3 changes

Errors 1

No hosted parallelism has been purchased or granted. To request a free parallelism grant, please fill out the following form <https://aka.ms/azpipelines-parallelism-request>

20250518.1

View documentation for troubleshooting failed runs

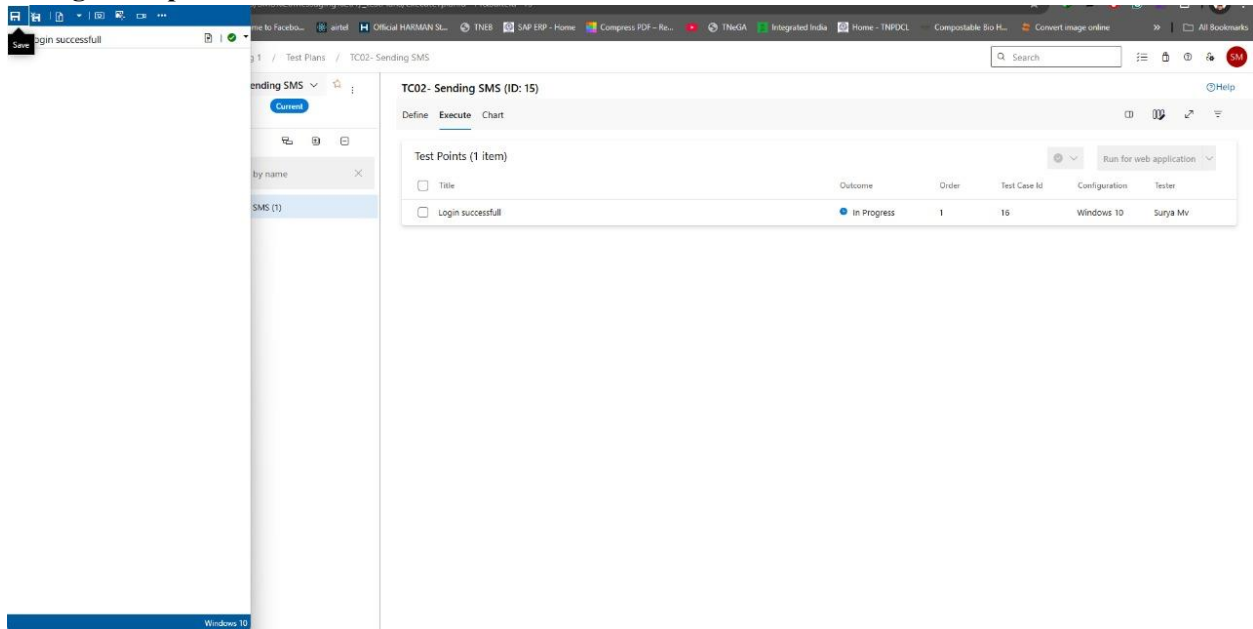
Jobs

Name	Status	Duration
Job	Failed	

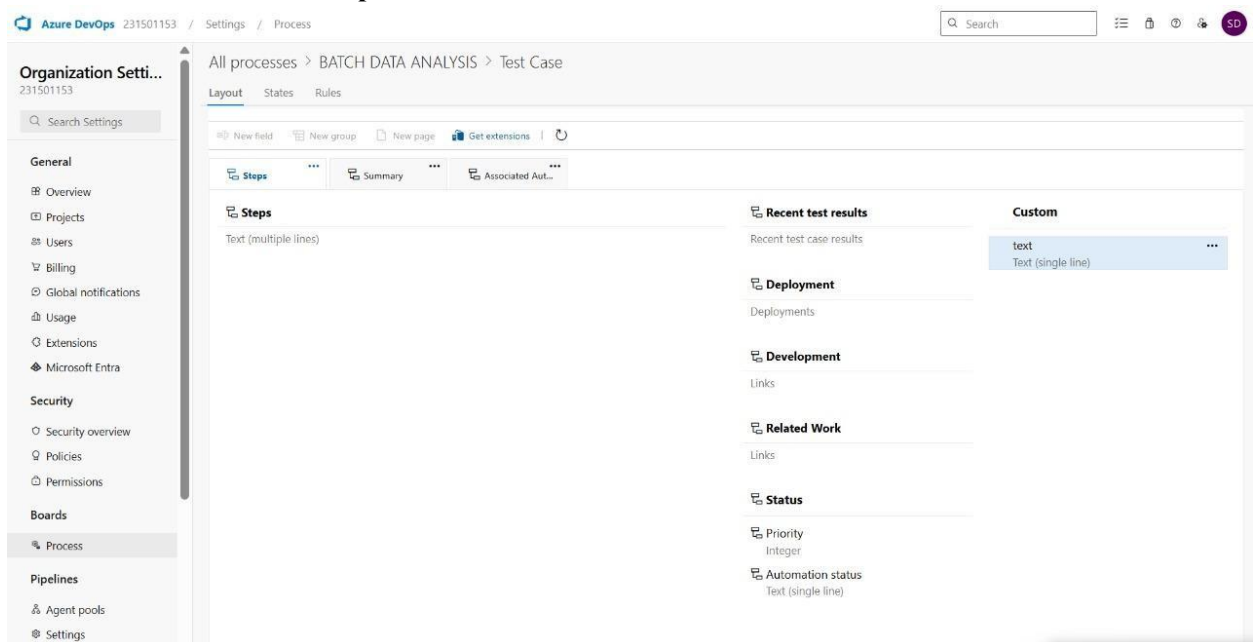
## 5.Test report summary

- Assigning bug to the developer and changing state

## 6. Progress report



## 7. View the new test case template



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

<b>EXP NO: 9</b> <b>Date:</b>	<b>CI/CD PIPELINES IN AZURE</b>

**Aim:**

To create and demonstrate an Azure DevOps pipeline for automating application builds, tests, and deployment.

**PROCEDURE:**

**Steps to Create and implement pipelines in Azure:**

1. Sign in to Azure DevOps and Navigate to Your Project  
Log in to [dev.azure.com](https://dev.azure.com), select your organization, and open the project where your Student Management System code resides.
2. Connect a Code Repository (Azure Repos or GitHub)  
Ensure your application code is stored in a Git-based repository such as Azure Repos or GitHub. This will be the source for triggering builds and deployments in your pipeline.
3. Create a New Pipeline  
Go to the Pipelines section on the left panel and click “Create Pipeline”. Choose your source (e.g., Azure Repos Git or GitHub), and then select the repository containing your project code.
4. Choose the Pipeline Configuration  
You can select either the YAML-based pipeline (recommended for version control and automation) or the Classic Editor for a GUI-based setup. If using YAML, Azure DevOps will suggest a template or allow you to define your own.
5. Define Build Stage (CI - Continuous Integration) from YAML file
6. Install dependencies (e.g., npm install, dotnet restore)

7. Build the application (dotnet build, npm run build)
8. Run unit tests (dotnet test, npm test)
9. Publish build artifacts to be used in the release stage
10. Save and Run the Pipeline for the First Time

Save the YAML or build definition and click “Run”.

Azure will fetch the latest code and execute the defined build and test stages.
11. Configure Continuous Deployment (CD)

Navigate to the Releases tab under Pipelines and click “New Release Pipeline”. Add an Artifact (from the build stage) and create a new Stage (e.g., Development, Production).
12. Configure the CD stage with deployment tasks such as deploying to Azure App Service, running database migrations or scripts, and restarting services using the Azure App Service Deploy task linked to your subscription and app details.
13. Set Triggers and Approvals

Enable continuous deployment trigger so the release pipeline runs automatically after a successful build.

For production environments, configure pre-deployment approvals to ensure manual verification before release.
14. Monitor Pipelines and Manage Logs

View all pipeline runs under the Runs section.

Check logs for build/test/deploy stages to debug any errors.

You can also integrate email alerts or Microsoft Teams notifications for build failures.
15. Review and Maintain Pipelines

Regularly update your pipeline tasks or YAML configurations as your application grows. Ensure pipeline runs are clean and artifacts are stored securely.

Integrate quality gates and code coverage policies to maintain code quality.

## Pipeline

The screenshot displays the Azure DevOps web interface for a pipeline named "Batch Data Analysis and Visualization (5)". The left sidebar contains navigation links for Overview, Boards, Repos, Pipelines, Environments, Library, Test Plans, and Artifacts. The main content area shows the details of a specific build run, #20250517.1, which is in a "Success" state. A message indicates that this run is being retained as one of 3 recent runs by the main branch. Below this, the "Summary" tab is active, showing the build was triggered by "Individual CI by NIKSHITHA H" from the "Batch Data Analysis and Visualization" repository on the "main" branch. The build started "Just now" and took "20s" to complete. It has 0 work items and 0 artifacts. A "Jobs" table at the bottom shows a single job named "Job" that also completed successfully in 20s. A "Run new" button is visible in the top right corner.

Azure DevOps nikshithahankrishnan2005 / Batch Data Analysis and Vis... / Pipelines / Batch Data Analysis and Vis... / 20250517.1

Batch Data Analysis an... +

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Library

Test Plans

Artifacts

Project settings

#20250517.1 • Set up CI with Azure Pipelines

Batch Data Analysis and Visualization (5)

Run new

This run is being retained as one of 3 recent runs by main (Branch).

View retention leases

Summary Code Coverage

Individual CI by NIKSHITHA H

Repository and version

Batch Data Analysis and Visualization

main aa225b1d

Time started and elapsed

Just now

20s

Related

0 work items

0 artifacts

Tests and coverage

Get started

View 4 changes

Jobs

Name	Status	Duration
Job	Success	20s

## Result:

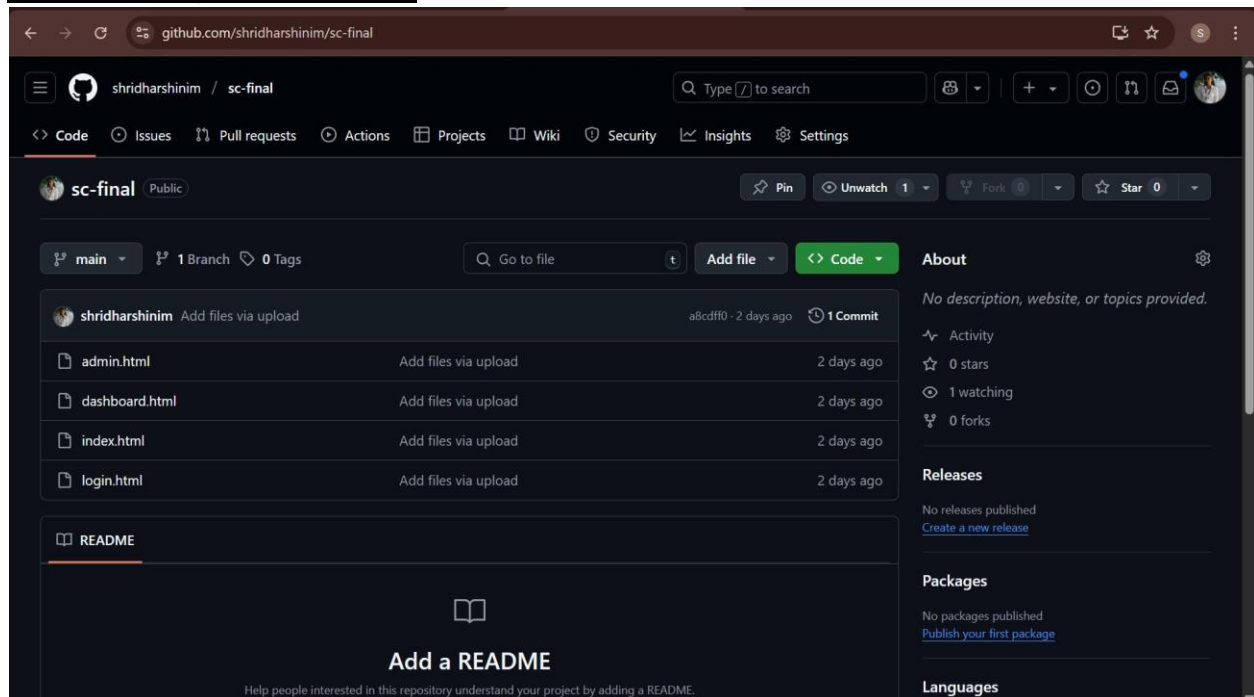
Successfully demonstrated pipelines in azure devops

<b>EXP NO: 10</b> Create Epic, F <b>Date :</b>	<h2 style="text-align: center;">GITHUB: PROJECT STRUCTURE &amp; NAMING CONVENTIONS</h2>
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### Aim:

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

### GitHub Project Structure



### Result:

The GitHub repository clearly displays the organized project structure and consistent naming conventions, making it easy for users and contributors to understand and navigate the codebase.