

**Aim:**

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

**INSTALLATION**

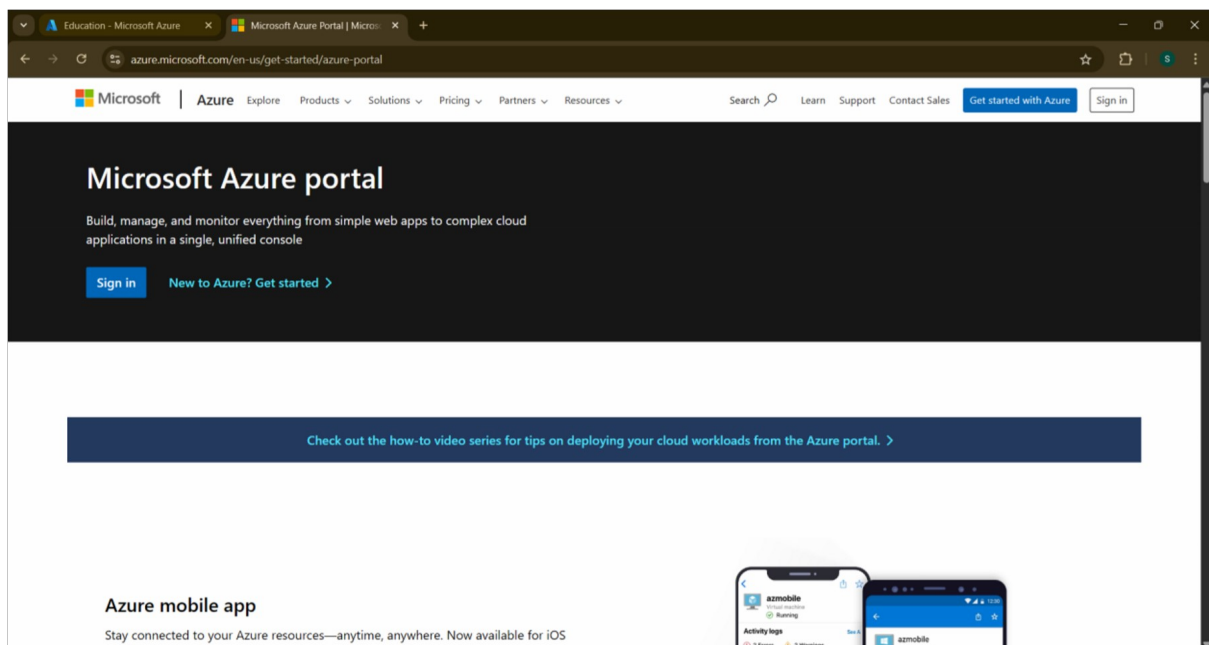
1. Open your web browser and go to the Azure website:

<https://azure.microsoft.com/en-us/get-started/azure-portal>.

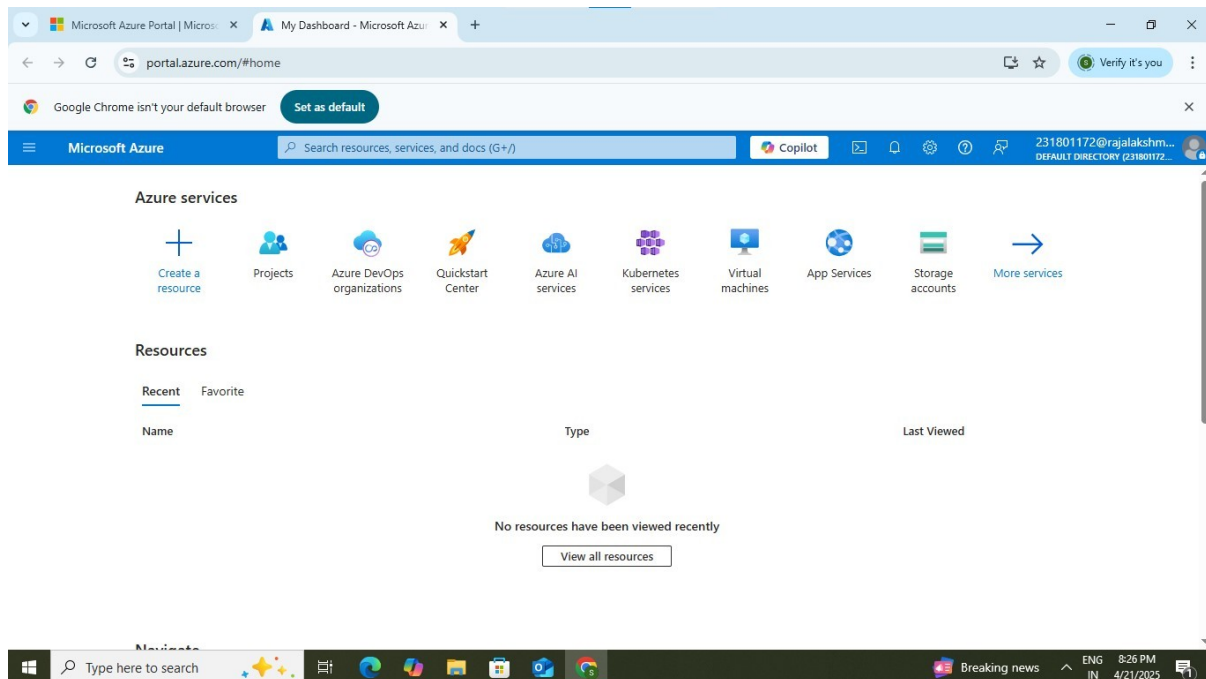
Sign in using your Microsoft account credentials.

If you don't have a Microsoft account, you can create one here:

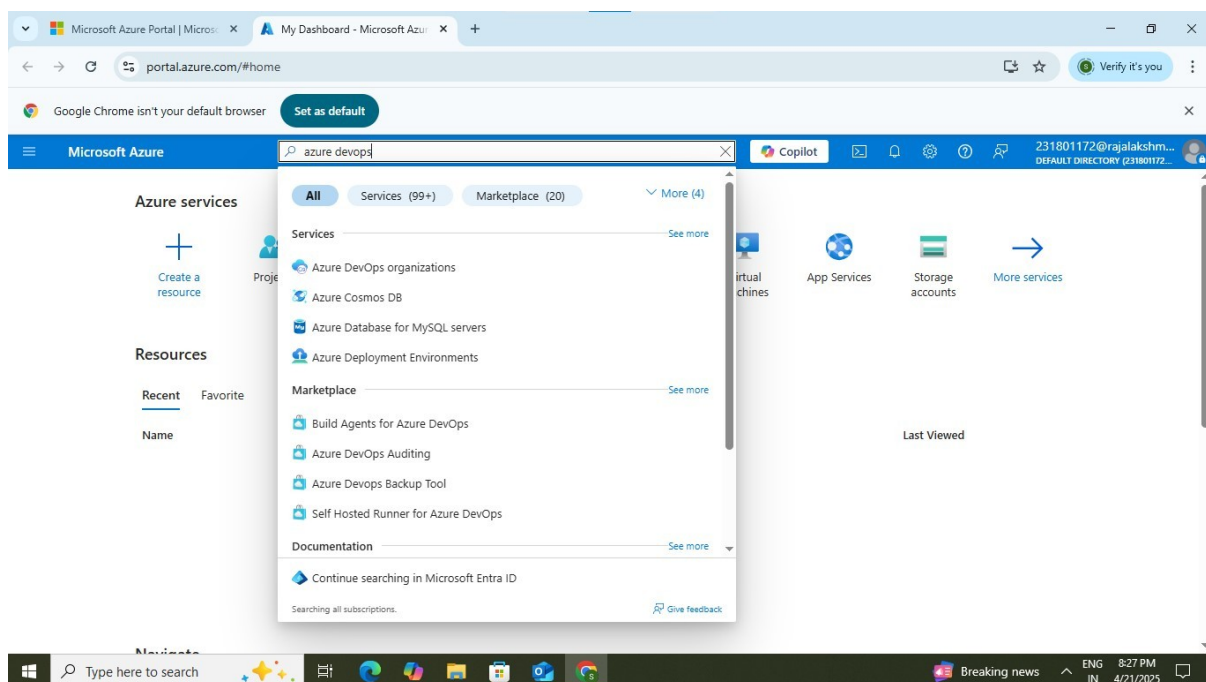
<https://signup.live.com/?lic=1>



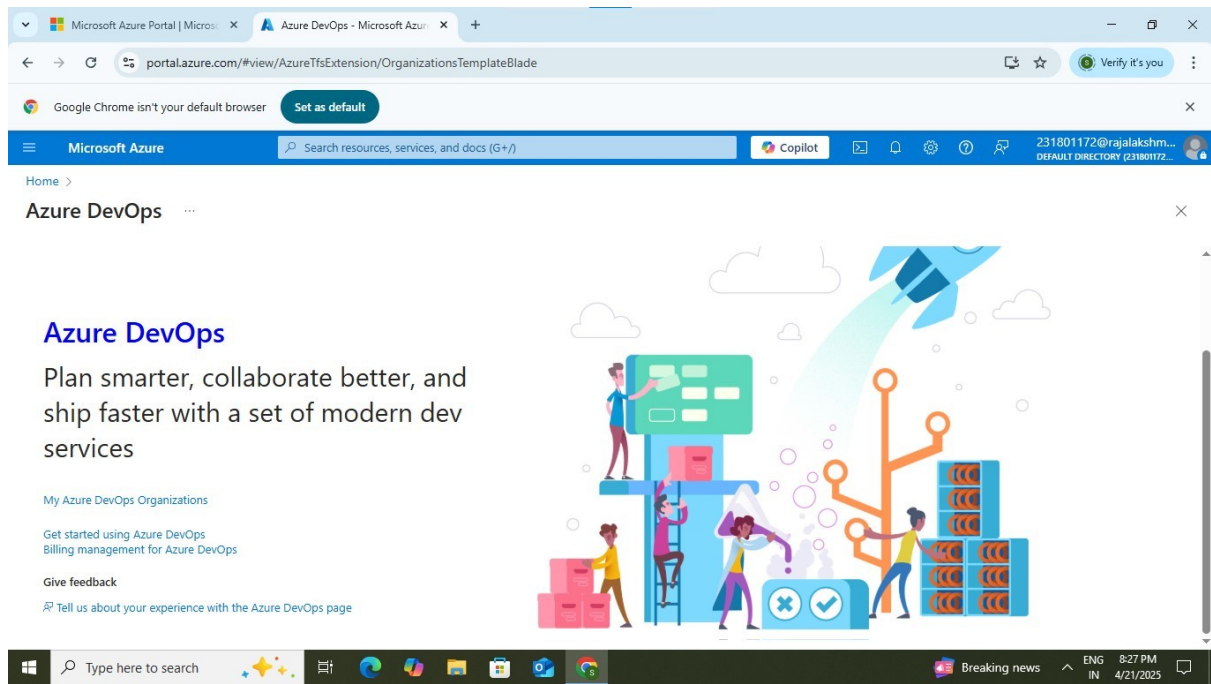
2. Azure home page



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



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.**

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EXP NO: 2

## AZURE DEVOPS PROJECT SETUP AND USER MANAGEMENT

### Aim:

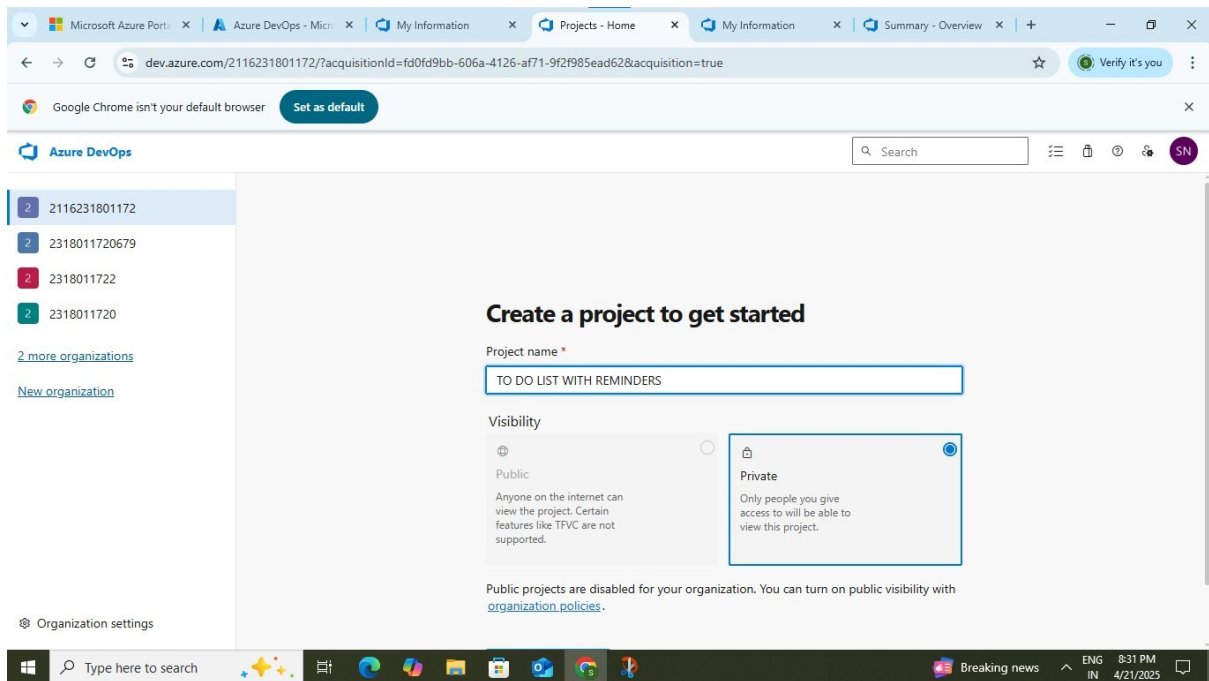
To set up an Azure DevOps project for efficient collaboration and agile work management.

### 1.Create An Azure Account

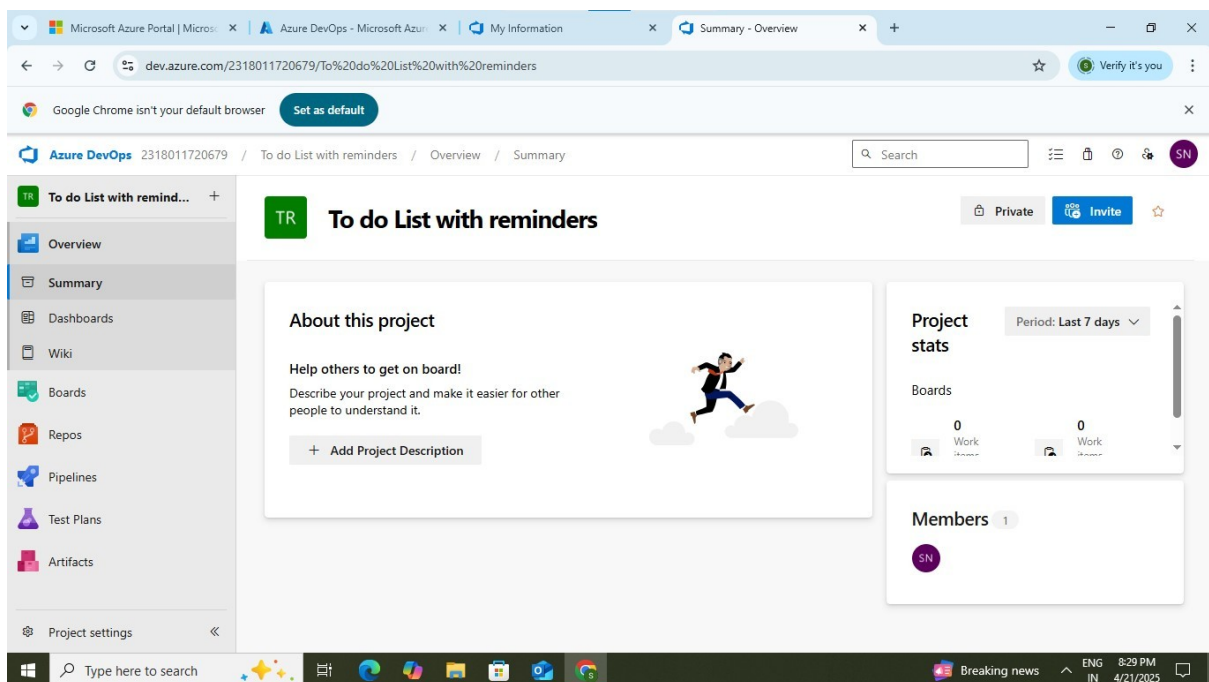
The screenshot displays the Azure DevOps 'Almost done...' setup page. The user's email is 231801172@rajalakshmi.edu.in. The organization name is dev.azure.com/ 2116231801172. The region is set to United States. A CAPTCHA challenge is shown with the text 'WIKI' and a 'Continue' button.

### 2.Create the First Project in Your Organization

- 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.
- On the organization's **Home page**, click on the **New Project** button.
- 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).
- Once you've filled out the details, click **Create** to set up your first project.

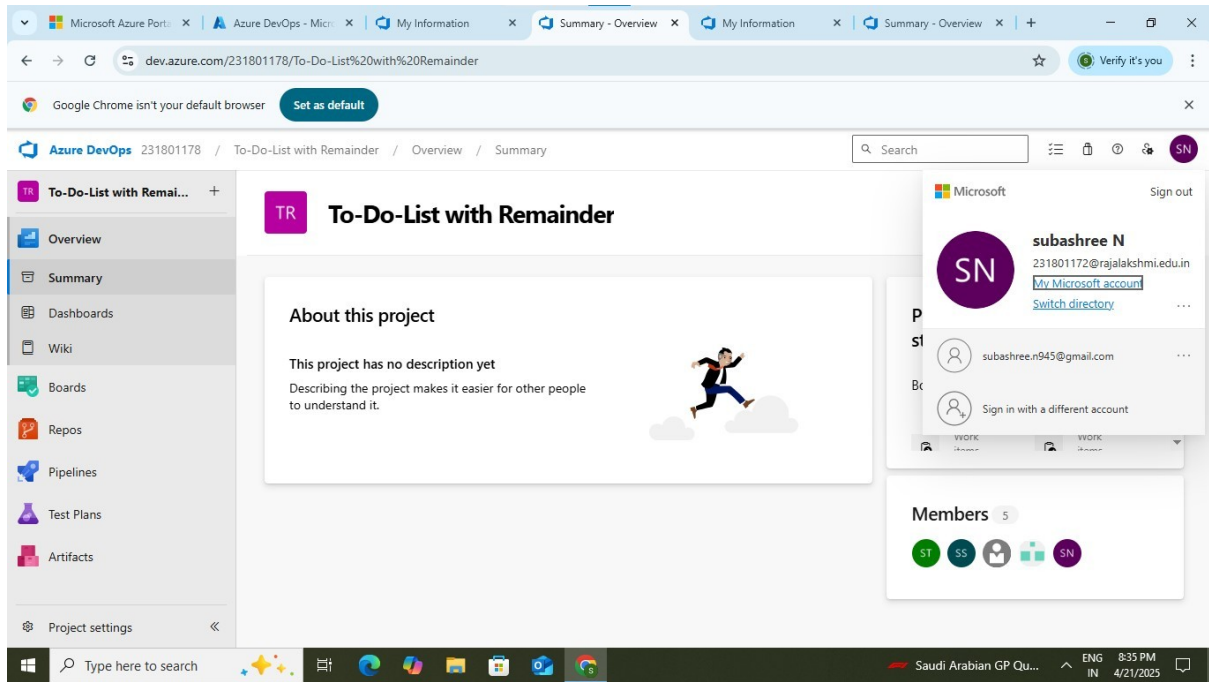


3. Once logged in, ensure you are in the correct organization. If you're part of multiple organizations, you can switch between them from the top left corner (next to your user profile). Click on the Organization name, and you should be taken to the Azure DevOps Organization Home page.



4. Project dashboard

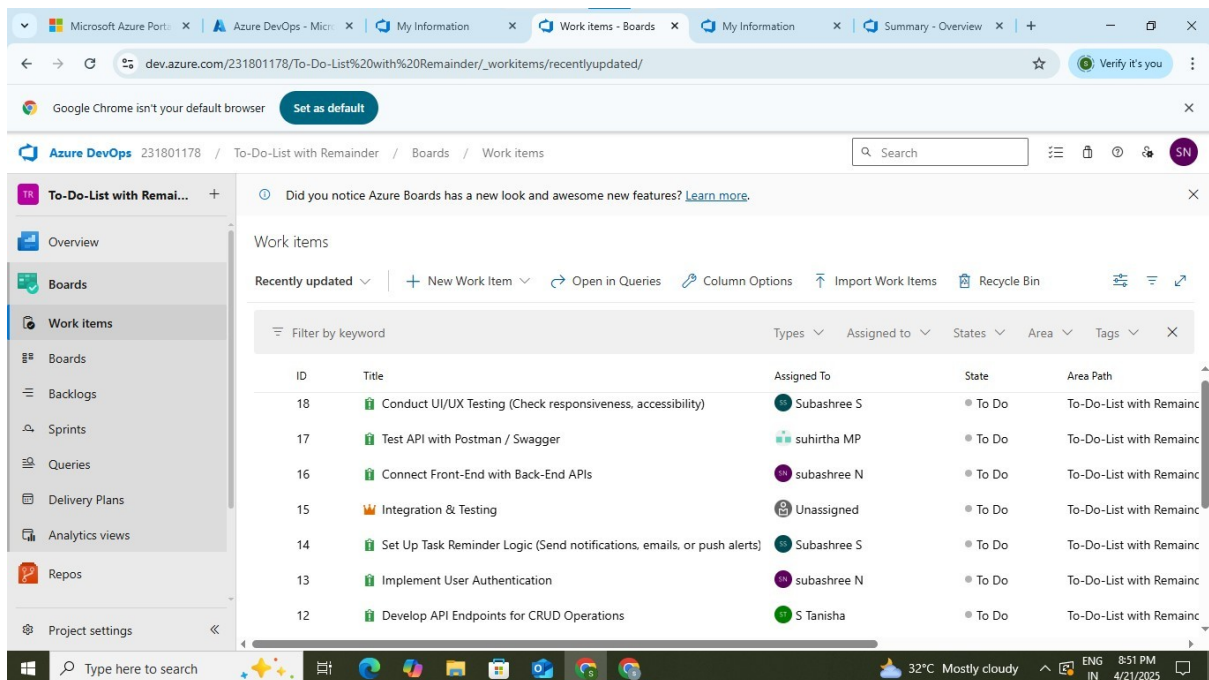
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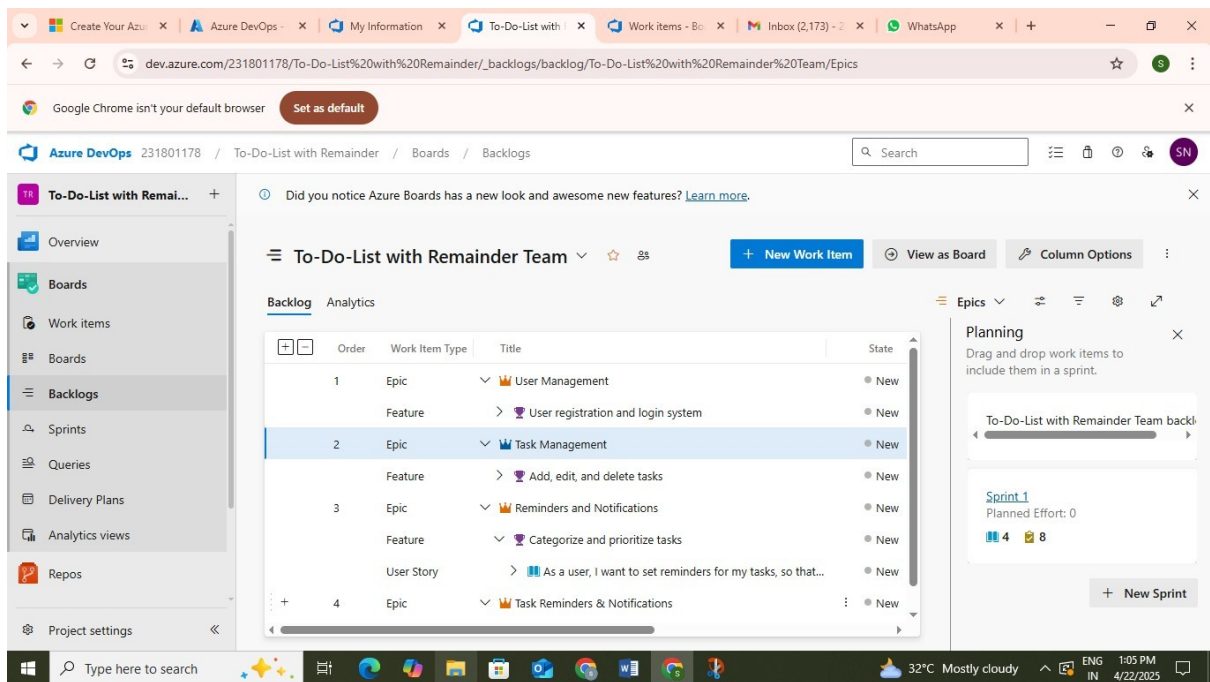


5.To manage user stories:

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**

## **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 displays the Azure DevOps web interface for a project named 'To-Do-List with Remainder Team'. The left sidebar shows the navigation menu with 'Backlogs' selected. The main area shows the backlog with two user stories and their tasks.

Order	Work Item Type	Title	State
1	User Story	As a user, I want to be able to register an account and log i...	New
	Task	Implement user registration and login functionality (with ...	New
	Task	Implement profile management (update password, email...	New
2	User Story	As a user, I want to add, edit, and delete tasks in my to-do li...	New
	Task	Implement task creation, editing, and deletion functionali...	New
	Task	Add the ability to set priorities and categorize tasks.	New

The right sidebar shows the 'Planning' view, which includes a sprint overview for 'Sprint 1' with a planned effort of 0. The sprint is currently in progress, with 2 tasks completed and 4 tasks remaining.



## 1.Fill in Epics

The screenshot shows the Azure DevOps interface for a project named "To-Do-List with Remainder". The "Backlog" view is active, displaying a list of work items. The first four items are Epics, each with a title and a state of "New".

Order	Work Item Type	Title	State
1	Epic	User Management	New
2	Epic	Task Management	New
3	Epic	Reminders and Notifications	New
4	Epic	Task Reminders & Notifications	New

The right sidebar shows the "Planning" section with a "Sprint 1" card. The card indicates a "Planned Effort: 0" and shows 4 tasks and 8 hours. A "New Sprint" button is visible at the bottom of the sidebar.

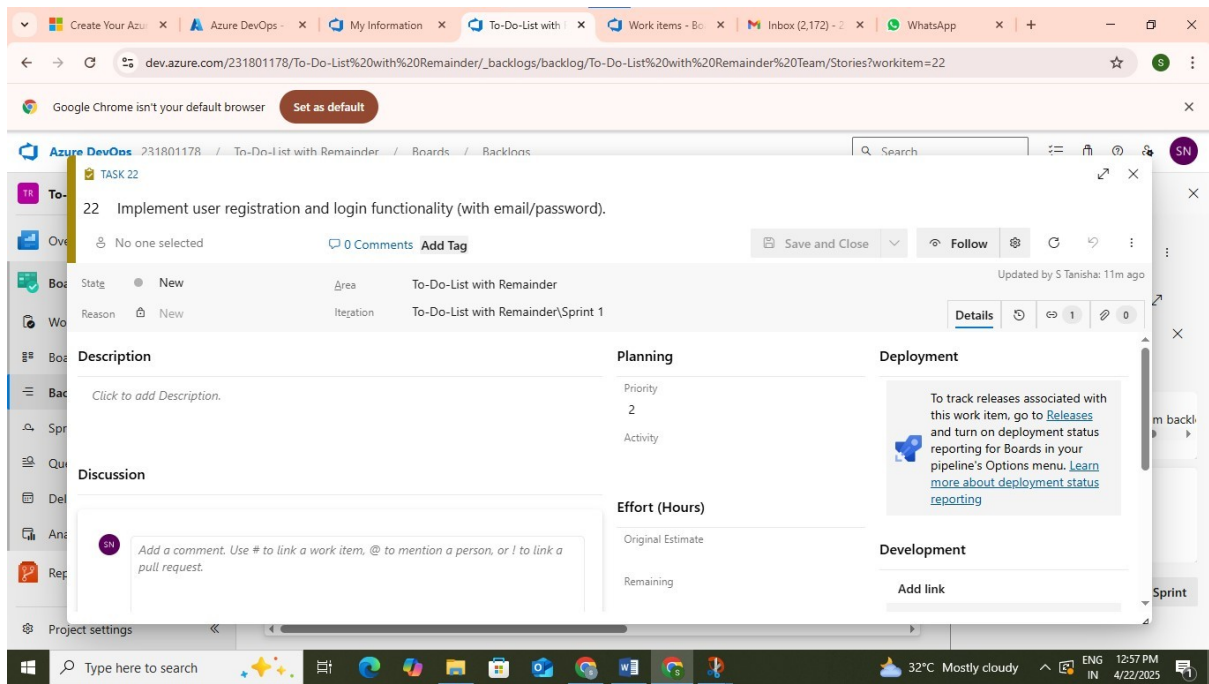
## 2.Fill in Features

The screenshot shows the Azure DevOps interface for the same project. The "Backlog" view is active, and the list of work items now includes child features for each epic. The second epic, "Task Management", is selected, and its child features are visible.

Order	Work Item Type	Title	State
1	Epic	User Management	New
	Feature	User registration and login system	New
2	Epic	Task Management	New
	Feature	Add, edit, and delete tasks	New
3	Epic	Reminders and Notifications	New
	Feature	Categorize and prioritize tasks	New
	User Story	As a user, I want to set reminders for my tasks, so that...	New
4	Epic	Task Reminders & Notifications	New

The right sidebar shows the "Planning" section with a "Sprint 1" card. The card indicates a "Planned Effort: 0" and shows 4 tasks and 8 hours. A "New Sprint" button is visible at the bottom of the sidebar.

## 3.Fill in User Story Details



**Result:**

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

**Aim:**

To assign Test case ,Test suites and Test case specific sprint for the To Do List With Remainder Project.

**Test Planning :****Test suites:**

**Test Suites**

Filter suites by name

Login page testing

Valid Login Test (1)

26 : As a user, I want to add,...

21 : As a user, I want to be ...

**Test Cases (3 items)**

Title	Order	Test Case
Register with valid inputs	1	44
Register with an already registered email	2	45
Register with invalid email format	3	46

**Test cases:**

**Test Suites**

Filter suites by name

Login page testing

Valid Login Test (1)

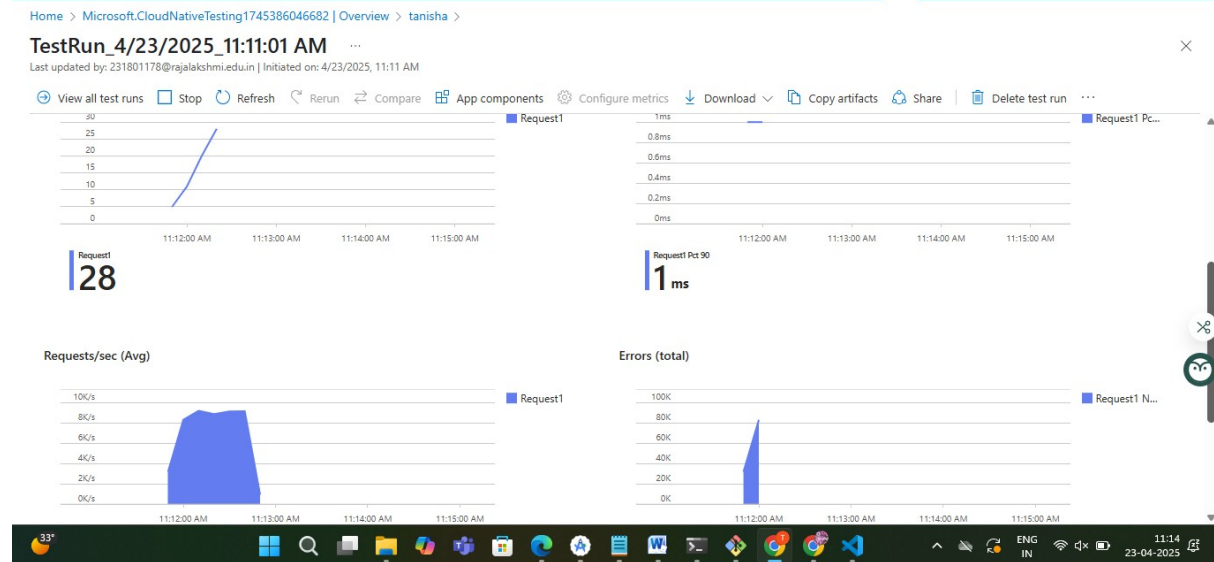
26 : As a user, I want to add,...

21 : As a user, I want to be ...

**Test Points (3 items)**

Title	Outcome	Test Case
Register with valid inputs	Passed	1
Register with an already registered email	Passed	2
Register with invalid email format	Passed	3

## Test Run:



## Test Suites:

Azure DevOps 231801178 / To-Do-List with Remainder / Test Plans / Login page testing

Search

### Test Suites

Filter suites by name

- Login page testing
  - Valid Login Test (1)
    - 26 : As a user, I want to add...
    - 21 : As a user, I want to be ...

### Test Cases (3 items)

Title	Order	Test Case
Register with valid inputs	1	44
Register with an already registered emailRegister with an already registered email	2	45
Register with invalid email format	3	46

21 : As a user, I want to be able to register an account and log in, so that I can access my personal to-do list and manage tasks securely. (ID: 43)

Define | Execute | Chart

Run for web application

## Test Cases:

### Test Suites

Filter suites by name

- Login page testing
  - Valid Login Test (1)
    - 26 : As a user, I want to add...
    - 21 : As a user, I want to be ...

### Test Points (3 items)

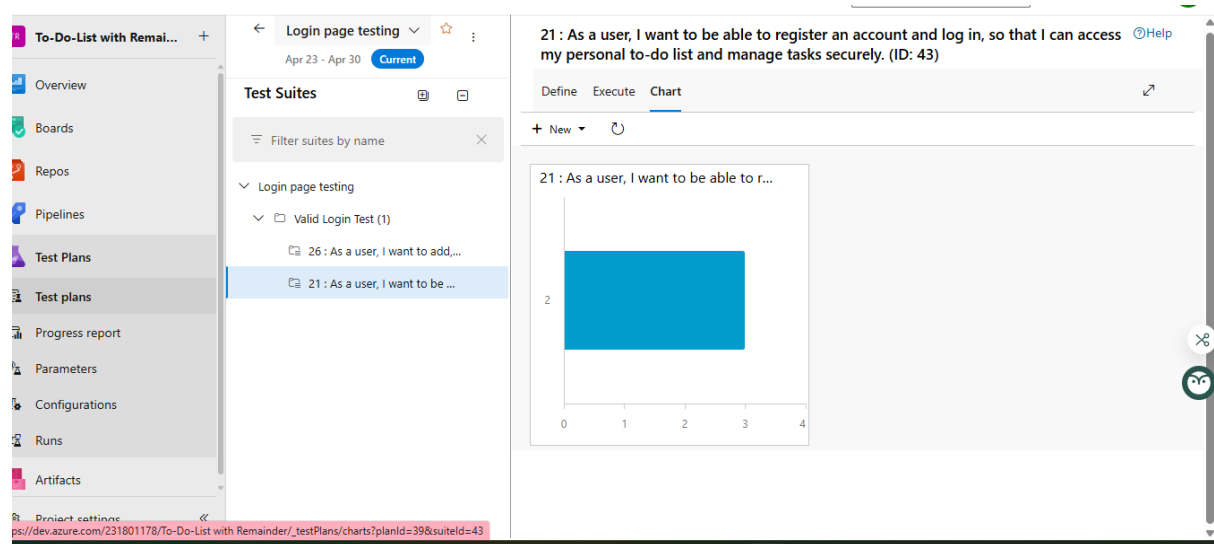
Title	Outcome	Test Point
Register with valid inputs	Passed	1
Register with an already registered emailRegister with an already registered email	Passed	2
Register with invalid email format	Passed	3

21 : As a user, I want to be able to register an account and log in, so that I can access my personal to-do list and manage tasks securely. (ID: 43)

Define | Execute | Chart

Run for web application

## Test Run:



**RESULT : Thus , the Test plan ,Test suites and Test cases of the To Do List With remainder was executed Successfully**

**EXP NO: 5**

## **POKER ESTIMATION**

### **Aim:**

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

### **Poker Estimation**

The screenshot shows a web browser window displaying an Azure DevOps work item page. The browser's address bar shows the URL: `dev.azure.com/231801178/To-Do-List%20with%20Remainder/_backlogs/backlog/To-Do-List%20with%20Remainder%20Team/Epics?workitem=21`. The page title is "USER STORY 21". The work item description is: "21 As a user, I want to be able to register an account and log in, so that I can access my personal to-do list and manage tasks securely." The work item is in the "New" state, with a reason of "New". It is assigned to "No one selected" and has 0 comments. The work item is categorized under the "Area" "To-Do-List with Remainder" and the "Iteration" "To-Do-List with Remainder\Sprint 1". The work item was updated by "S Tanisha" 28 minutes ago. The page is divided into several sections: "Description" (with a placeholder "Click to add Description."), "Acceptance Criteria" (with a placeholder "Click to add Acceptance Criteria."), "Discussion" (with a placeholder "Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request."), "Planning" (with fields for "Story Points" (set to 2), "Priority" (set to 2), and "Risk"), "Classification" (with fields for "Value area" (set to Business) and "Business"), "Deployment" (with a placeholder "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"), and "Development" (with a placeholder "Add link" and a note "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.").

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

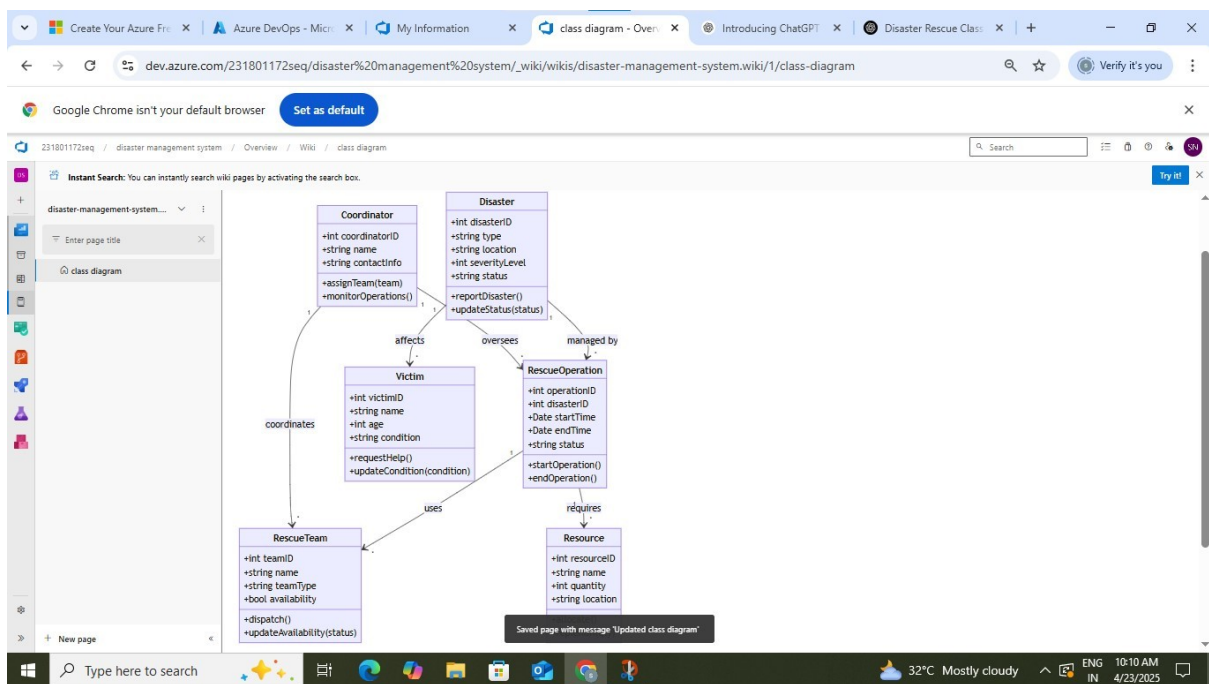
**EXP NO: 6**

## **DESIGNING CLASS AND SEQUENCE DIAGRAMS FOR PROJECT ARCHITECTURE**

**Aim:**

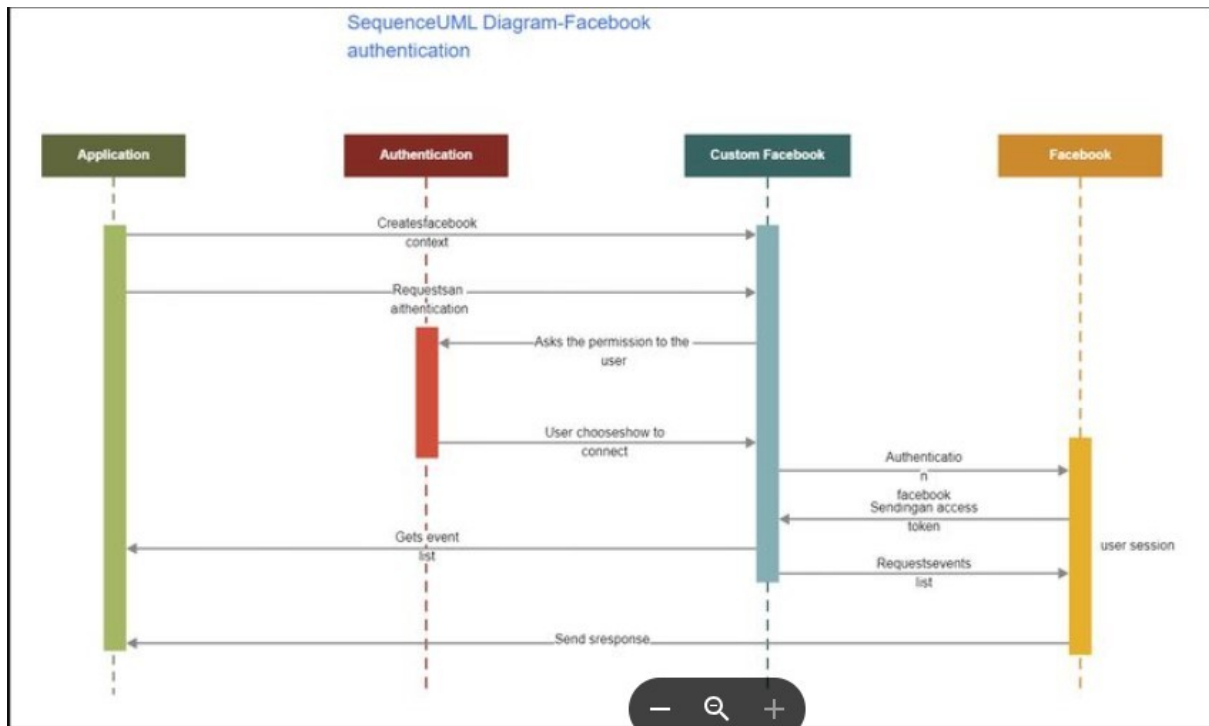
To Design a Class Diagram and Sequence Diagram for the given Project.

### **6A. Class Diagram**



### **6B. Sequence Diagram**





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

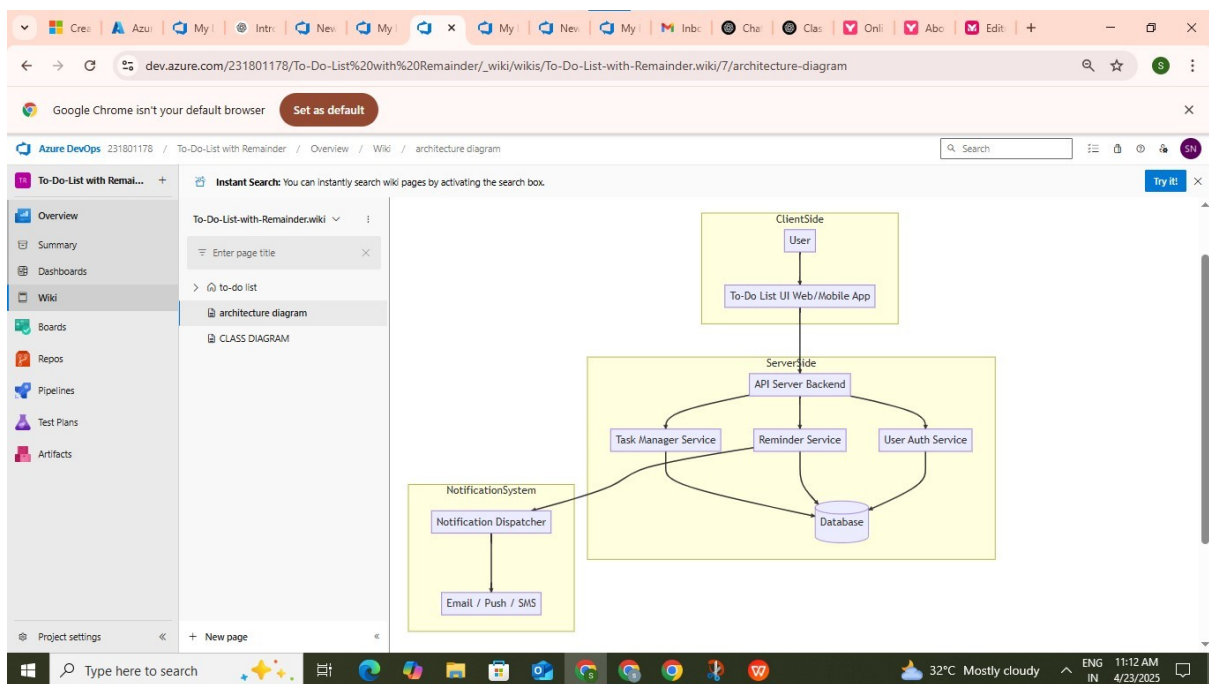
**EXP NO: 7**

## **DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE**

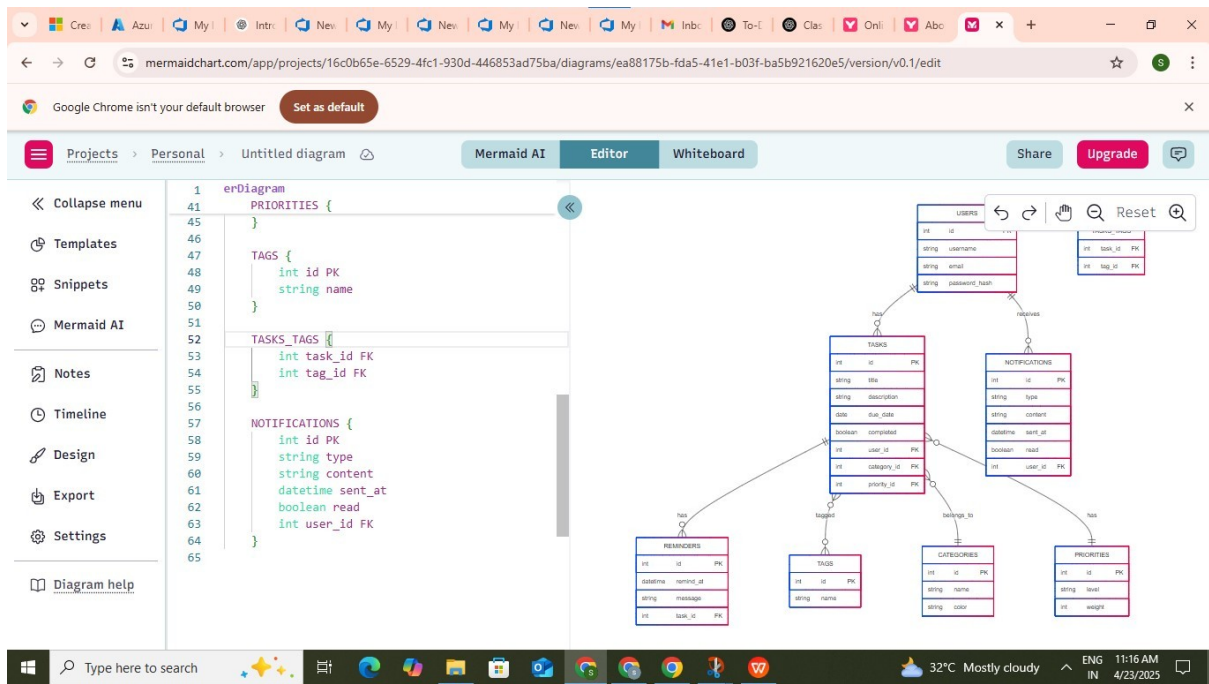
### **Aim:**

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

