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10.	22/4/25	GitHub: Project Structure & Naming Conventions.

EXP NO: 1

AZURE DEVOPS ENVIRONMENT SETUP

Aim:

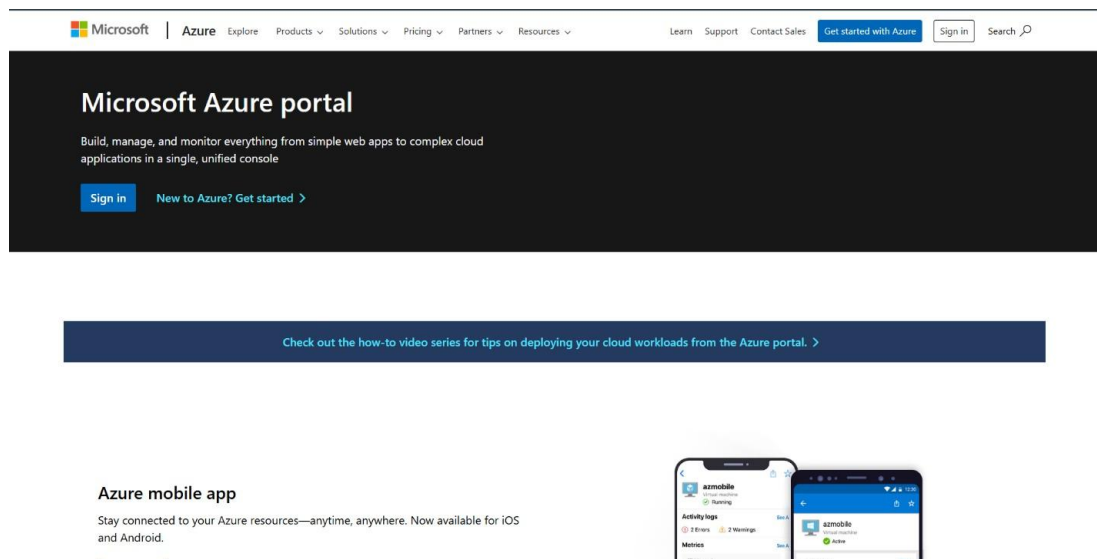
To set up and access the Azure DevOps environment by creating an organization through the Azure portal.

INSTALLATION

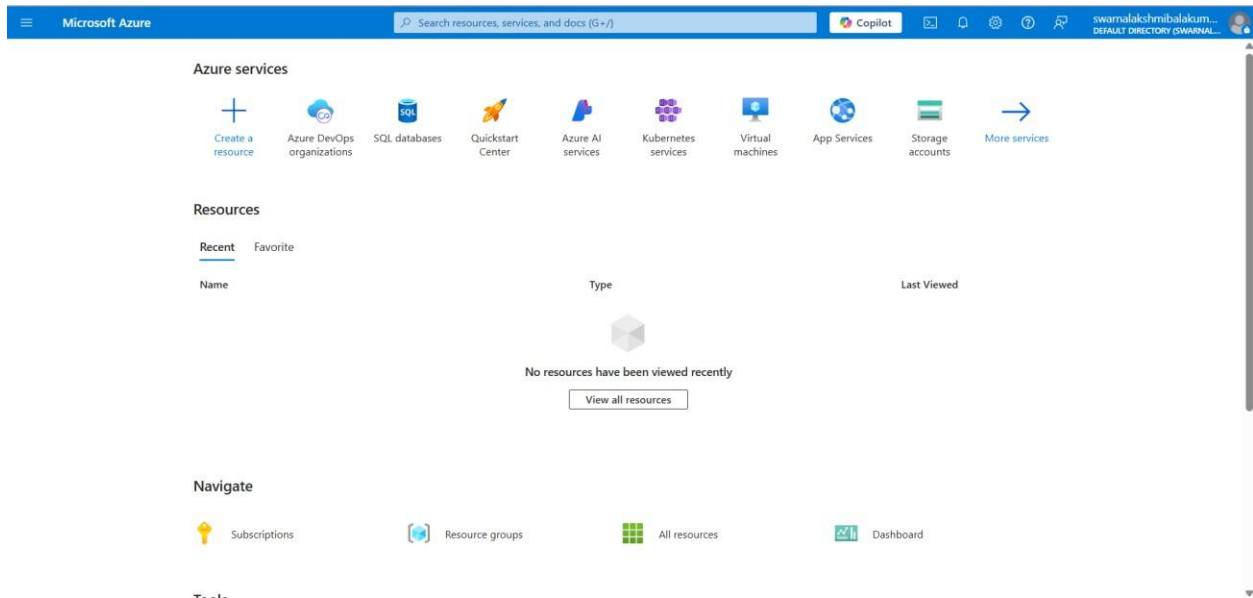
1. Open your web browser and go to the Azure website: <https://azure.microsoft.com/en-us/getstarted/azure-portal>.

Sign in using your Microsoft account credentials.

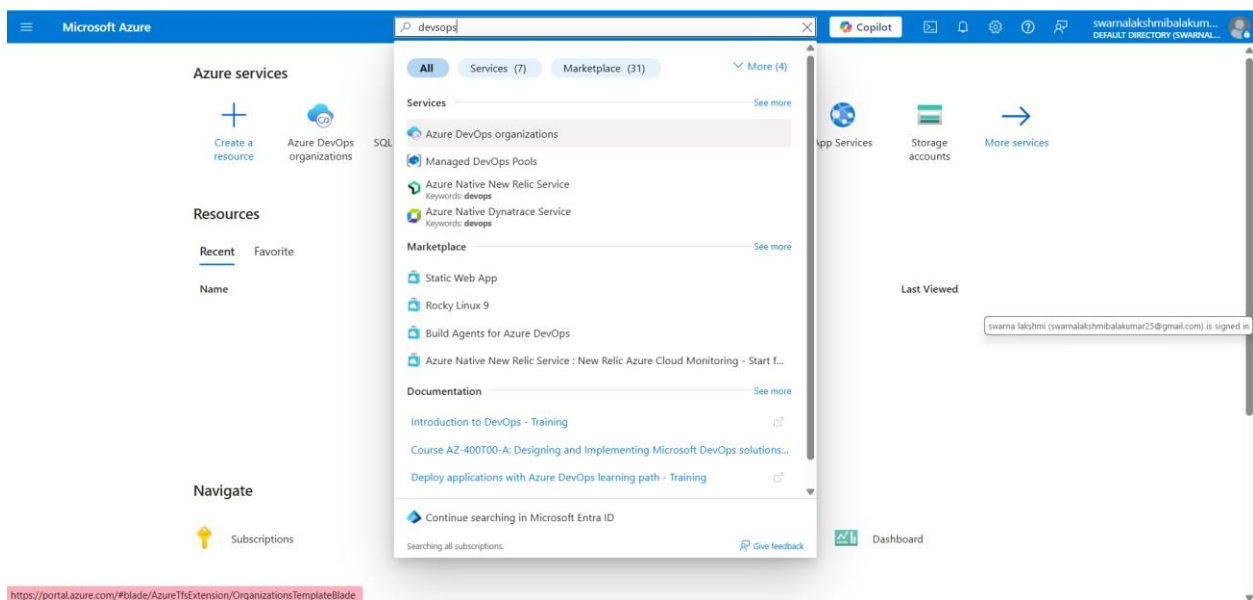
If you don't have a Microsoft account, you can create one here: <https://signup.live.com/?lic=1>



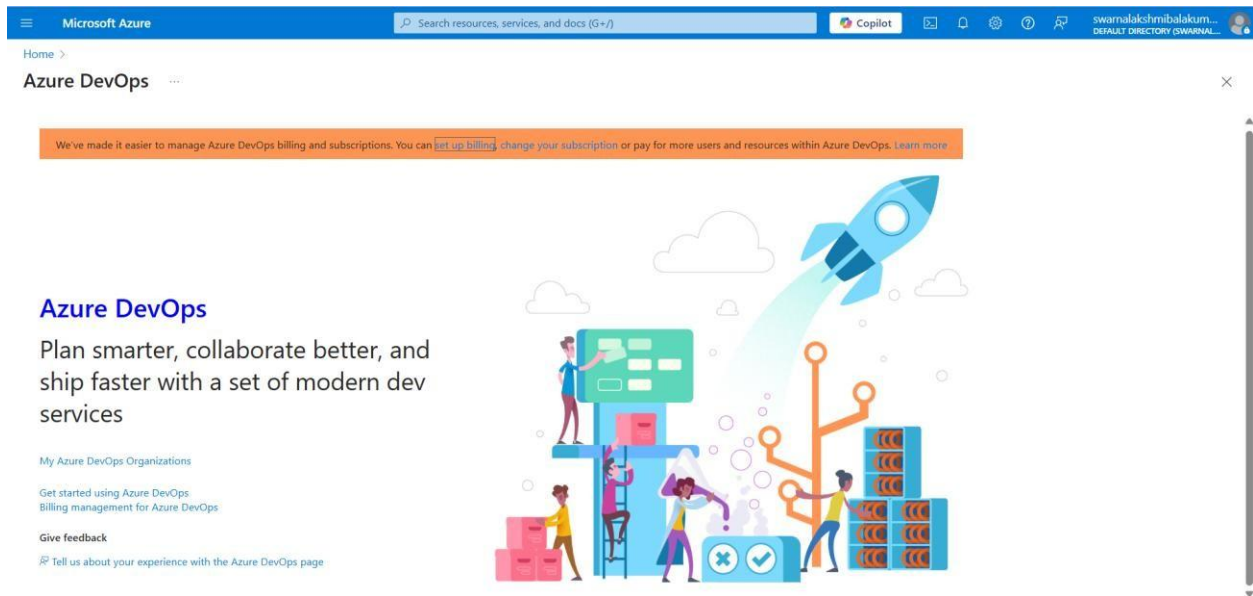
2. Azure home page



3. Open a 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.

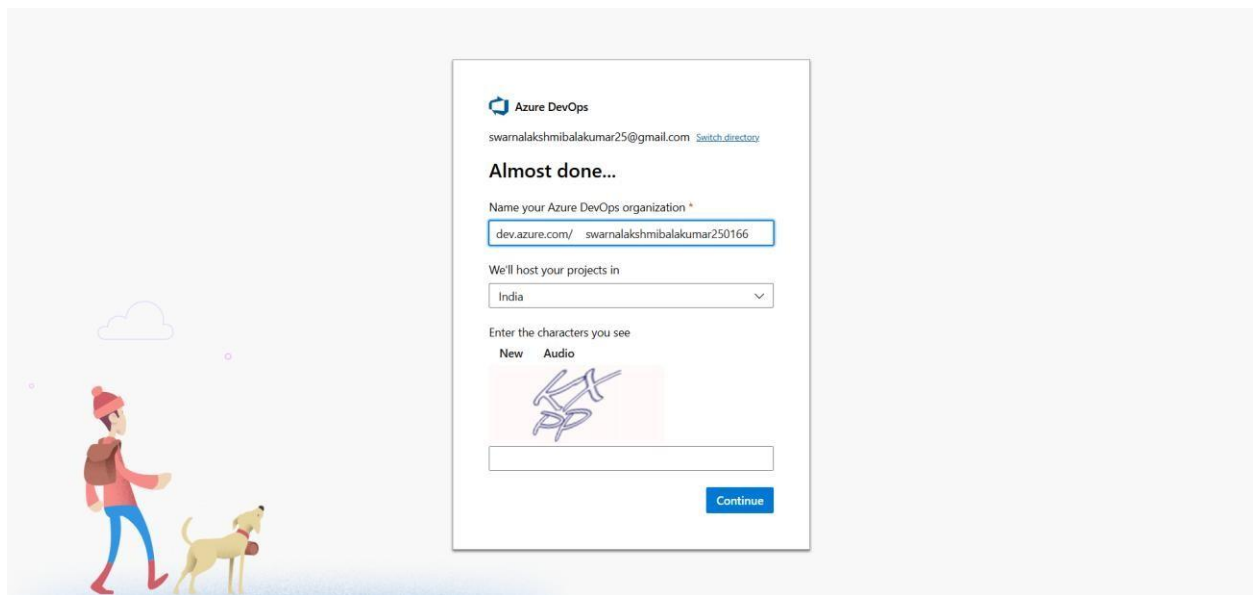
EXP NO: 2

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

- 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.

Create a project to get started

Project name *

Hospital Management System

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

Version control ?

Git



Work item process ?

Agile



+ Create 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.

Microsoft

swarna lakshmi Sign out

SL

swarna lakshmi

swarnalakshmbalakumar25@gmail.com

Microsoft account

India

swarnalakshmbalakumar25@gmail.com

Visual Studio Dev Essentials

Get everything you need to build and deploy your app on any platform.

Use your benefits

Azure DevOps Organizations

Create new organization

dev.azure.com/swarnalakshmbalakumar250108 (Owner)

Projects

Hospital Management

New project

Actions

Open in Visual Studio

Organizations Pending Deletion - Expand

4. Project dashboard

Azure DevOps swarnalakshmbalakumar25... / Hospital Management / Overview / Summary

Search

SL

Hospital Management

Overview

Summary

Dashboards

Wiki

Boards

Repos

Pipelines

Test Plans

Artifacts

Project settings

HM Hospital Management

Private Invite

About this project

Like 0

Project Title: Hospital Management System (HMS)

Summary:

A cloud-based system on Microsoft Azure to manage hospital operations like patient records, appointments, billing, pharmacy, and lab reports with improved efficiency and real-time access.

Key Features:

Patient & staff management

Appointment scheduling

Billing & pharmacy tracking

Lab test handling

Role-based access (Azure AD)

Dashboards & analytics

Use Cases:

Receptionist: Register patients, manage appointments

Doctors: View history, prescribe, request tests

Pharmacist/Lab: Manage stock, upload results

Admin: Monitor reports, manage users

Patients: Book/view reports via portal

Future Enhancements:

Telemedicine support

AI health suggestions

Wearable device integration

Project stats

Period: Last 7 days

Boards

11 Work items created

0 Work items completed

Repos

0 Pull requests opened

3 Commits by 1 authors

Pipelines

22%

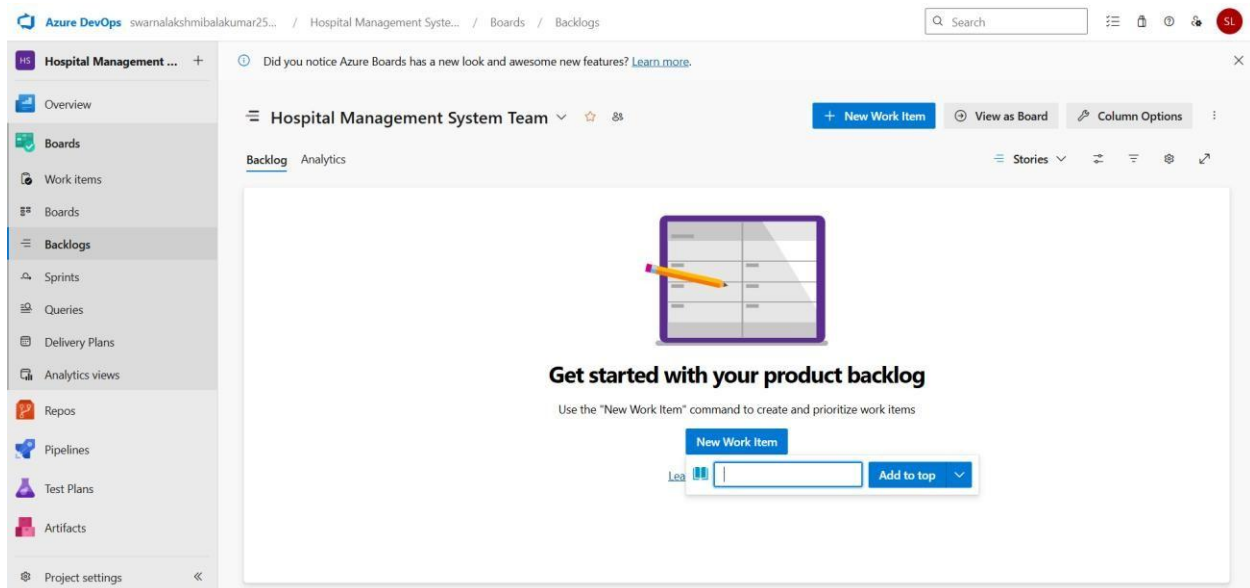
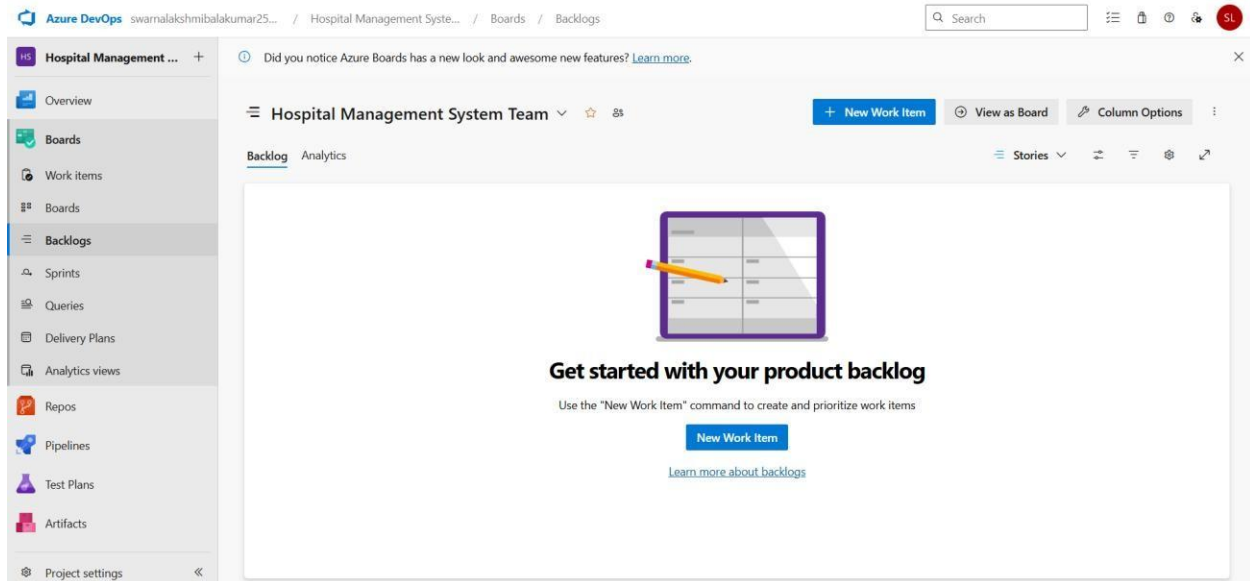
Builds succeeded

Members 4

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 create epics, user stories, features, and tasks for the project, Hospital Management System.

Create Epic, Features, User Stories, Task

The screenshot shows the Azure DevOps Backlog for the 'Hospital Management Team'. The interface includes a left sidebar with navigation options like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays a table of work items:

Order	Work Item Type	Title	State	Effort	Busin...	Value Area	Tags
1	Epic	Patient Management	New			Business	
	Feature	Patient Registration	New			Business	
	User Story	As an admin, I want to register a new patient.	Resolved			Business	
	User Story	As a receptionist, I want to update patient details whe...	New			Business	
	Feature	Appointment Booking	New			Business	
	User Story	As a patient, I want to book an appointment with a do...	New			Business	
	User Story	As a doctor, I want to view my appointment schedule	New			Business	
2	Epic	Doctor Management	New			Business	
	Feature	Doctor Profile Management	New			Business	
	Feature	Schedule Management	New			Business	
3	Epic	Billing & Reporting	New			Business	
	Feature	Bill Generation	New			Business	
	Feature	Report Generation	New			Business	

1. Fill in Epics

This screenshot shows the same Azure DevOps Backlog, but with only the Epic-level work items visible. The table is as follows:

Order	Work Item Type	Title	State	Effort	Busin...	Value Area	Tags
1	Epic	Patient Management	New			Business	
2	Epic	Doctor Management	New			Business	
3	Epic	Billing & Reporting	New			Business	

2. Fill in Features

NEW FEATURE *

Patient Registration

No one selected0 CommentsAdd TagSave and Close

StateNewAreaHospital ManagementReasonNewIterationHospital Management\Sprint-1

Details10

Description

Click to add Description.

Discussion

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

switch to Markdown editor

Planning

Priority2RiskEffortBusiness ValueTime CriticalityStart DateSelect a date...Target DateSelect a date...

Classification

Value areaBusiness

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

Add link

Parent

4 Patient ManagementUpdated Apr 11 @ New

3. Fill in User Stories

USER STORY 13

13 As an admin, I want to register a new patient.

swarna lakshmi0 CommentsAdd TagSave and CloseFollow10

StateResolvedAreaHospital ManagementReasonCode complete and unit tIterationHospital Management\Sprint-1

Updated by swarna lakshmi: ThursdayDetails10

Description

Admin can enter patient's personal and medical details and save them.

Acceptance Criteria

The form validates all fields and saves data in the database.

Discussion

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 PointsPriority2Risk

Classification

Value areaBusiness

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

Add link

Parent

7 Patient RegistrationUpdated Apr 11 @ New

Result:

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

EXP NO: 4

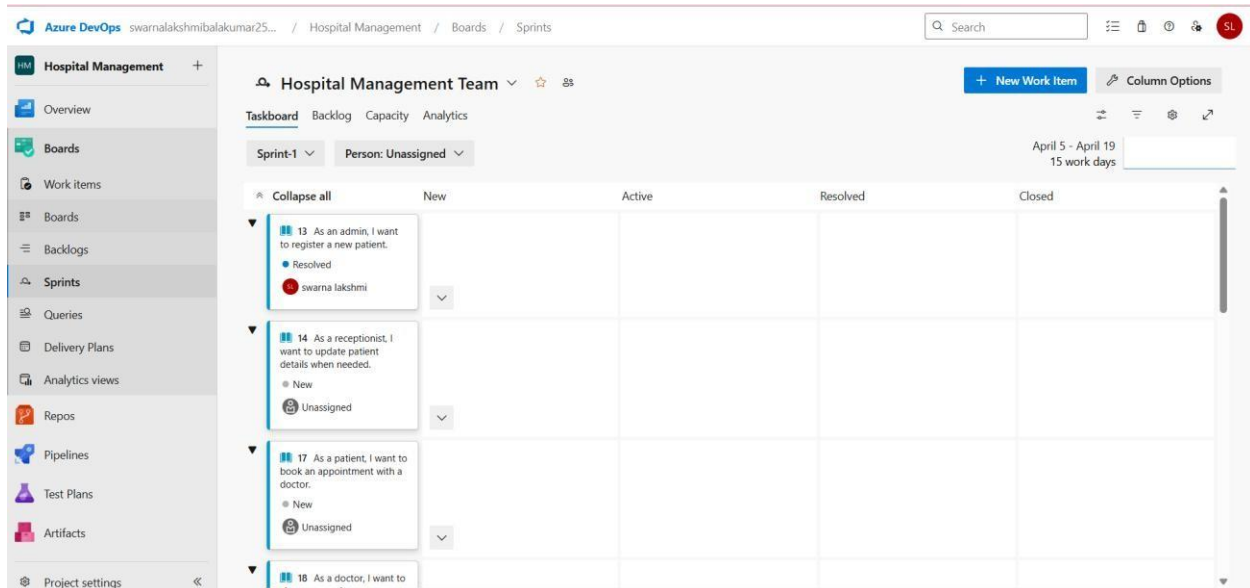
SPRINT PLANNING

Aim:

To assign a user story to a specific sprint for the project, Hospital Management System.

SPRINT PLANNING

Sprint 1

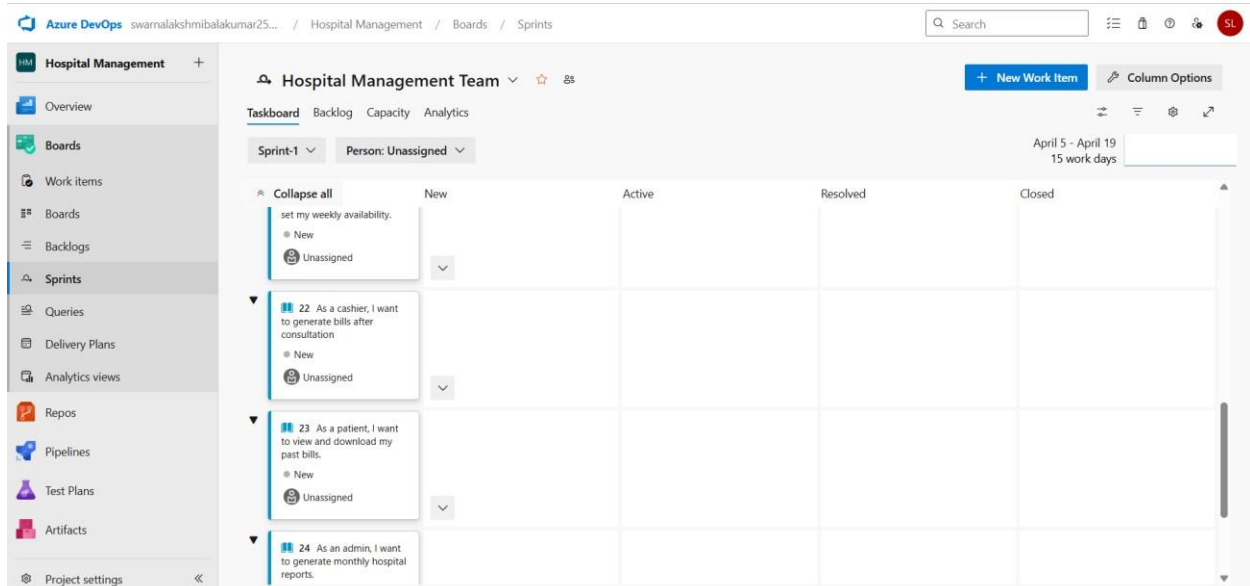


The screenshot shows the Azure DevOps Sprints board for 'Hospital Management Team'. The board is titled 'Sprint-1' and 'Person: Unassigned'. It displays a Kanban board with columns: New, Active, Resolved, and Closed. The sprint duration is 'April 5 - April 19' (15 work days). The board contains three user stories:

- 13: As an admin, I want to register a new patient. (Resolved, assigned to swarna lakshmi)
- 14: As a receptionist, I want to update patient details when needed. (New, Unassigned)
- 17: As a patient, I want to book an appointment with a doctor. (New, Unassigned)

There is also a partially visible story 18: As a doctor, I want to...

Sprint 2



The screenshot shows the Azure DevOps Sprints board for 'Hospital Management Team'. The board is titled 'Sprint-1' and 'Person: Unassigned'. It displays a Kanban board with columns: New, Active, Resolved, and Closed. The sprint duration is 'April 5 - April 19' (15 work days). The board contains four user stories:

- set my weekly availability. (New, Unassigned)
- 22: As a cashier, I want to generate bills after consultation. (New, Unassigned)
- 23: As a patient, I want to view and download my past bills. (New, Unassigned)
- 24: As an admin, I want to generate monthly hospital reports. (New, Unassigned)

Sprint 3

The screenshot shows the Azure DevOps interface for a project named "Hospital Management". The left sidebar contains a navigation menu with options: Overview, Boards, Work items, Backlogs, Sprints (selected), Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The main area displays the "Sprints" board for the "Hospital Management Team". The board is titled "Sprint-1" and "Person: Unassigned". It shows a Kanban board with columns: New, Active, Resolved, and Closed. The date range is "April 5 - April 19" with "15 work days". There are three work items in the "New" column:

- Item 23: "As a patient, I want to view and download my past bills." (New, Unassigned)
- Item 24: "As an admin, I want to generate monthly hospital reports." (New, Unassigned)
- Item 25: "As a manager, I want to view daily appointment and earnings reports." (New, Unassigned)

Result:

The Sprints are created for the project, Hospital Management System.

EXP NO: 5

POKER ESTIMATION

Aim:

Create Poker Estimation for the user stories for the project, Hospital Management System.

Poker Estimation

The screenshot displays a Jira user story card titled "USER STORY 17" with the text "17 As a patient, I want to book an appointment with a doctor." The card is in the "New" state and is associated with the "Hospital Management" area and "Hospital Management\Sprint-1" iteration. The card is updated by "swarna lakshmi" on April 11. The card is divided into several sections: "Description" (Patients select doctor, date, and time and receive a confirmation), "Acceptance Criteria" (Booking is successful, no double bookings, and confirmation is shown), "Discussion" (Add a comment. Use # to link a work item, @ to mention a person, or ! to link a pull request.), "Planning" (Story Points, Priority 2, 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.), and "Related Work" (Add link, Parent, Appointment Booking, Updated Apr 11, New).

Result:

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

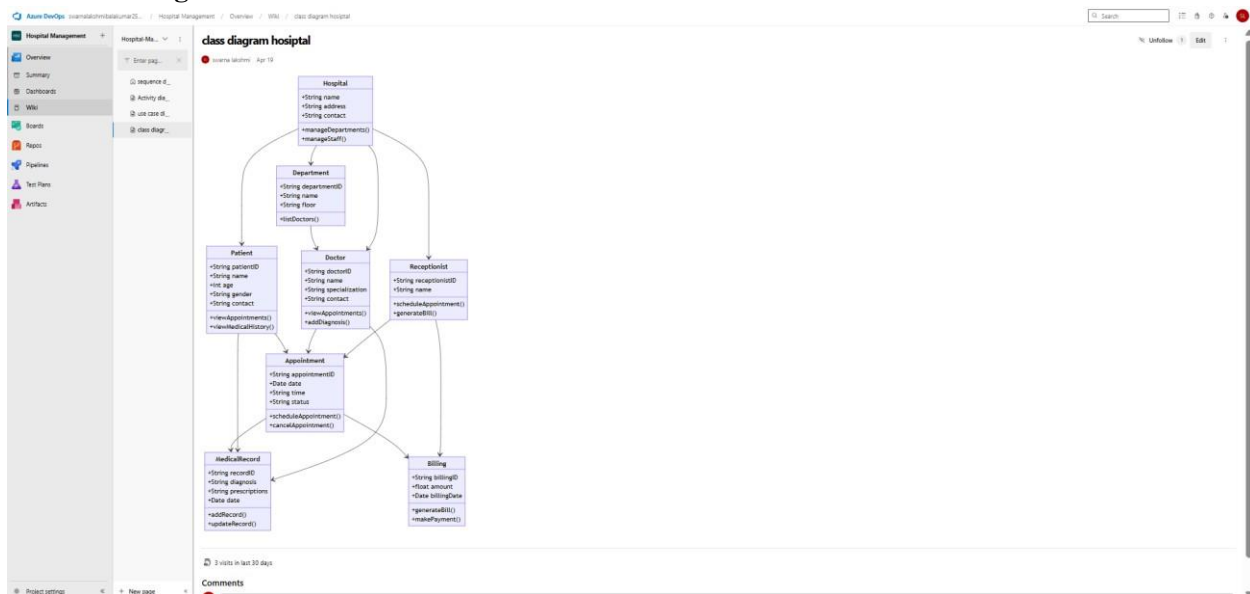
EXP NO: 6

DESIGNING CLASS DIAGRAM AND SEQUENCE DIAGRAM

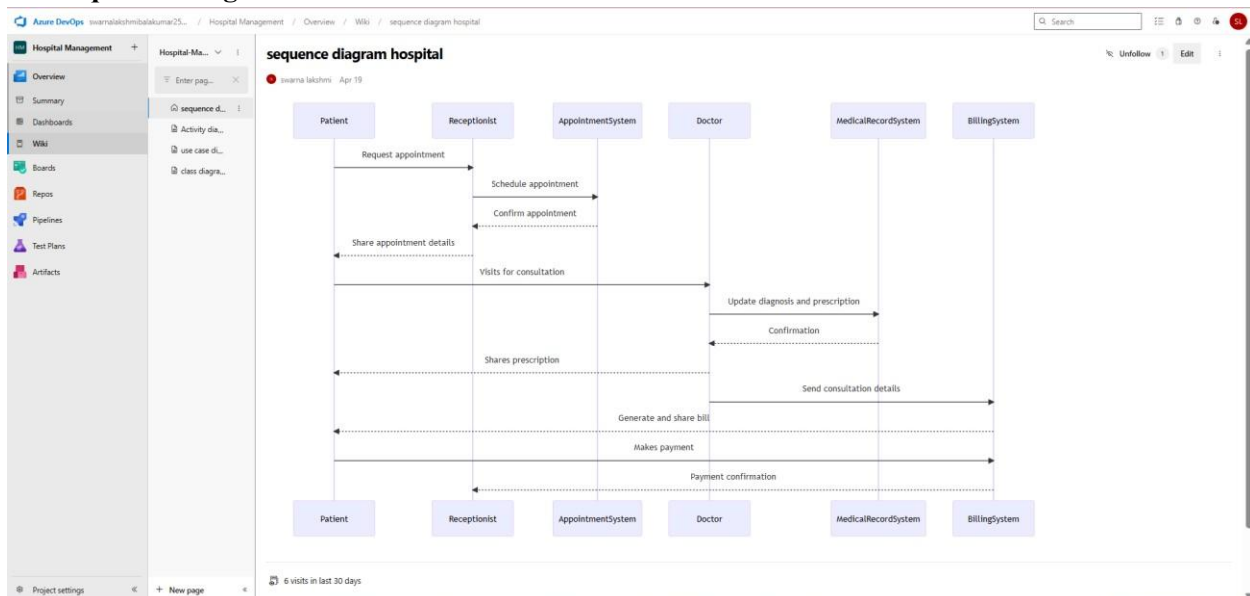
Aim:

To design a Class Diagram and Sequence Diagram for the project, Hospital Management System.

6A. Class Diagram



6B. Sequence Diagram



Result: The Class and Sequence Diagrams are designed successfully for the project, Hospital Management System.

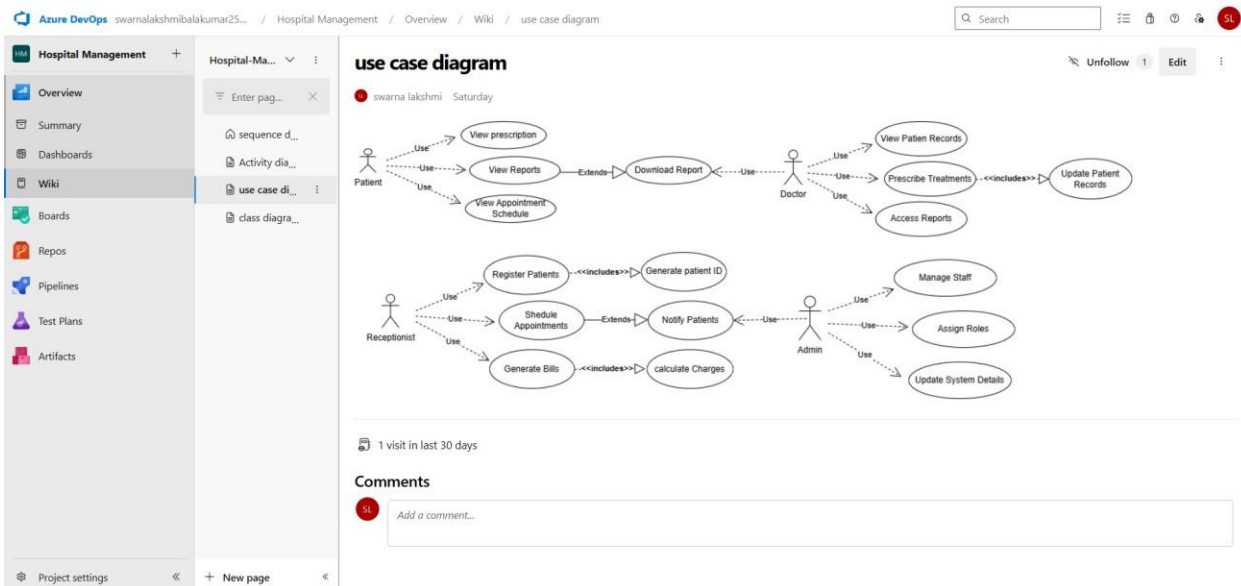
EXP NO: 7

DESIGNING USE CASE DIAGRAM AND ACTIVITY DIAGRAM

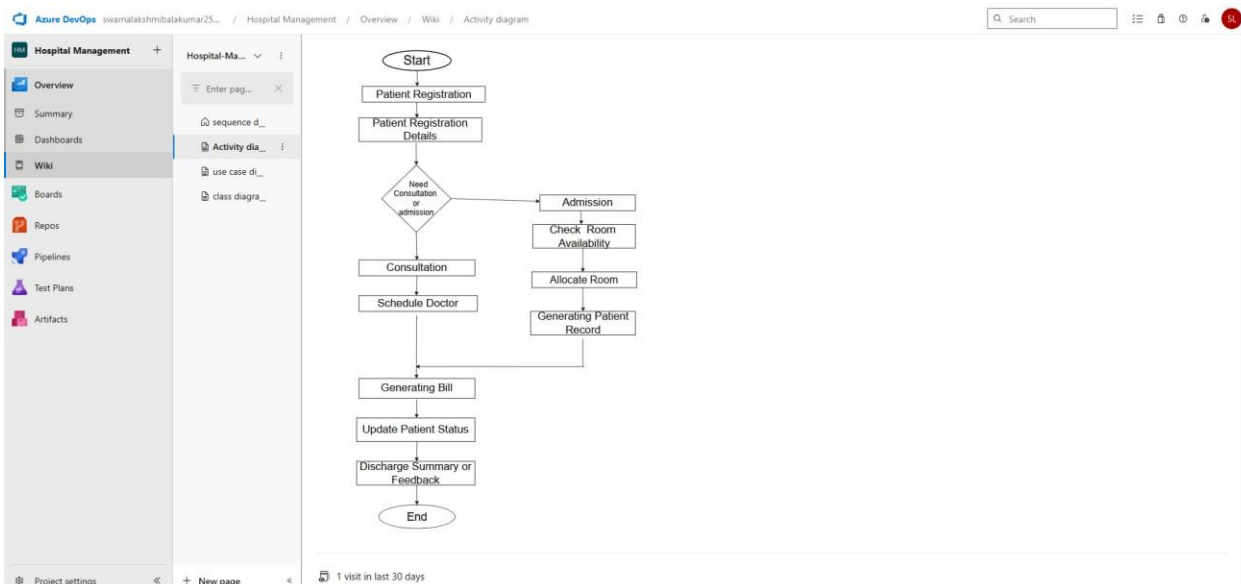
Aim:

To design a Use Case Diagram and an Activity Diagram for the project, Hospital Management System.

7A. Use Case Diagram



7B. Activity Diagram



Result: The Use Case and Activity Diagrams are designed successfully for the project, Hospital Management System.

EXP NO: 8

TESTING – TEST PLANS AND TEST CASES

Aim:

Test Plans and Test Cases for the Hospital Management System (HMS), showcasing **happy path** and **error scenarios** for **at least five user stories**, designed and documented for execution on **Azure DevOps platform**.

Test Planning and Test Case

Test Case Design Procedure

- **Understand Core Features of the Application**

- Patient Registration
- Appointment Booking
- Billing and Report Generation
- Doctor Availability Management
- Prescription Management

1. Define User Interactions

Simulate real scenarios (e.g., register patient, book appointment, generate bill, update availability).

2. Design Happy Path Test Cases

Validate expected flows (e.g., successful patient registration, successful booking).

3. Design Error Path Test Cases

Simulate invalid inputs or system limitations (e.g., missing fields, double booking, unavailable doctor).

4. Break Down Steps and Expected Results

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

5. Use Clear Naming and IDs

Example: TC_PM_001 – Register New Patient Successfully

Naming is consistent with Azure DevOps standards.

6. Separate Test Suites

Suites are modular: Registration, Appointment, Billing, Availability, Prescription.

7. Prioritize and Review

Happy path scenarios marked **High Priority**

Test cases mapped to **linked user stories** in Azure DevOps.

1. New test plan

Azure DevOps swarnalakshmbalakumar25... / Hospital Management / Test Plans

Search

New Test Plan

Name *
Patient Registration module

Area Path *
Hospital Management

Iteration *
Hospital Management\Sprint-1 4/5/2025 - 4/19/2025

Create Cancel

2. Test suite

Azure DevOps swarnalakshmbalakumar25... / Hospital Management / Test Plans / Patient Registration Module

Search

Patient Registration Module (ID: 27)

Define Execute Chart

Test Suites

Filter suites by name

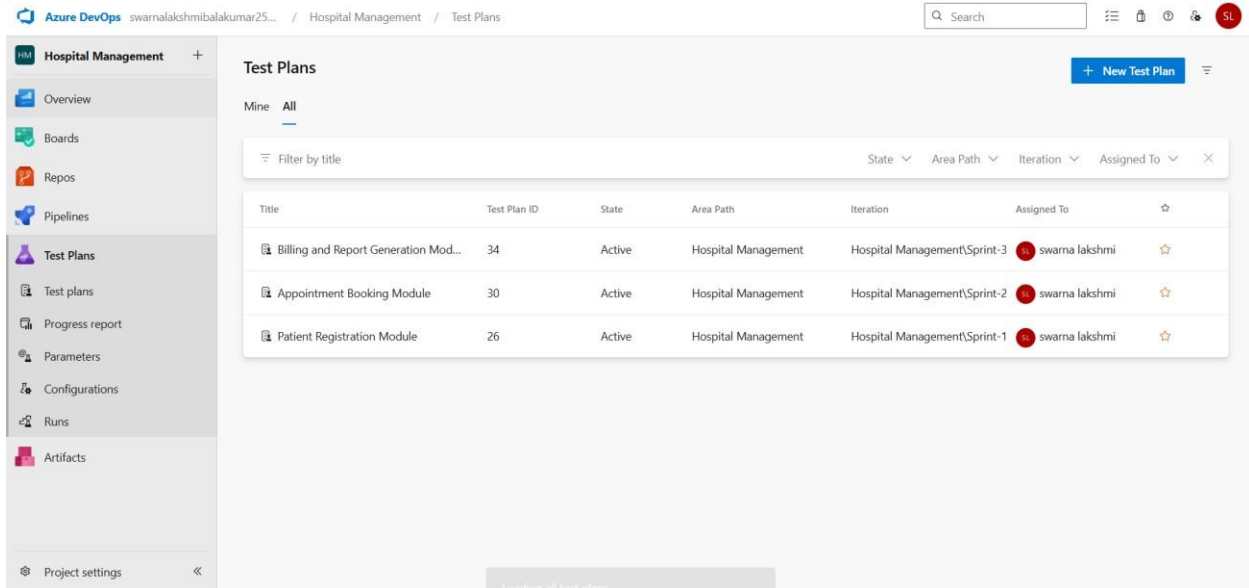
Patient Registration Module (2)

New Suite
Assign configurations
Export
Assign testers to run all tests
Import test suites
Static suite
Requirement based suite
Query based suite

Test Points (2 items)

Run for web application

Title	Outcome	Order	Test Case Id
Register New Patient Successfully	Passed	1	28
Register New Patient for Missing Required Fields	Failed	2	29



3. Test case

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

Hospital Management System – Test Plans

USER STORIES

- As an admin, I want to register a new patient.
- As a patient, I want to book an appointment with a doctor.
- As a cashier, I want to generate bills after consultation.

Test Suites

Test Suite: TS01 - Patient Registration Module

1. TC01 – Register New Patient Successfully

- **Action:**
 - Login as Admin to the Azure-hosted HMS portal.
 - Navigate to the “Register New Patient” form.
 - Fill in valid details: Name, Age, Gender, Contact, Medical History.
 - Click "Save".
- **Expected Results:**
 - A success message is shown: "Patient Registered Successfully".
- **Type:** Happy Path

2. TC02 – Show Validation Error for Missing Required Fields.

- **Action:**
 - Open the registration form.
 - Leave required fields (e.g., Name, Contact) blank

- Click "Save".
- **Expected Results:**
 - Form displays message: "Name and Contact are required."
- **Type:** Error Path

Test Suite: TS02 - Appointment Booking Module

1. TC03 – Book Appointment Successfully

- **Action:**
 - Login to the Azure-hosted patient portal.
 - Navigate to "Book Appointment".
 - Select Doctor, Date, and Available Time Slot.
 - Click "Confirm".
- **Expected Results:**
 - Confirmation message displayed: "Appointment Confirmed".
- **Type:** Happy Path

2. TC04– Prevent Double Booking ○

- Action:**
 - Patient A books Dr. Smith at 10:00 AM.
 - Patient B selects the same doctor and time slot.
 - Clicks "Book".
- **Expected Results:**
 - System returns error: "Time slot already booked."
- **Type:** Error Path

Test Suite: TS03 - Billing and Report Generation

1. TC05 – Generate Consultation Bill

- **Action:**
 - Login as Cashier.
 - Select a completed consultation
 - Enter service fees, medicine charges, and lab test fees.
 - Click "Generate Bill"
- **Expected Results:**
 - Confirmation message and downloadable PDF bill are displayed.
- **Type:** Happy Path

Test Cases

The screenshot shows a Jira Test Case interface. At the top, it says 'TEST CASE 28' and '28 Register New Patient Successfully'. The creator is 'swarna lakshmi'. There are '0 Comments' and an 'Add Tag' button. The status is 'Design', area is 'Hospital Management', reason is 'Now', and iteration is 'Hospital Management(Sprint-1)'. It was updated by 'swarna lakshmi' on Wednesday. The right sidebar has tabs for 'Steps', 'Summary', 'Associated Automation', and 'Status'. The 'Steps' tab is active, showing a list of steps: 1. Admin logs in, 2. Navigates to "Register Patient" form, 3. Fills all fields (Name, Age, Contact, Medical History, etc.), 4. Clicks "Save", 5. A success message is shown: "Patient Registered Successfully". There is a 'Deployment' section with a link to 'Releases' and a 'Development' section with a link to 'Add link'. The 'Related Work' section has a link to 'Add link'. The 'Status' section is at the bottom.

4. Installation of test

The screenshot shows the Chrome Web Store page for the 'Test & Feedback' extension. The extension is featured, has a 4.2 star rating from 175 ratings, and is categorized as 'Extension', 'Workflow & Planning', with 200,000 users. The main image shows a screenshot of a website with a red circle around a button and a text annotation that says 'change the color of button as per UX mocks'. The right sidebar shows a 'Remove from Chrome' button and a Google Account dropdown menu.

Test and feedback
Showing it as an extension

Azure DevOps swarnalakshmbalakumar25... / Hospital Management / Test Plans / Patient Registration Module

Hospital Management

- Overview
- Boards
- Repos
- Pipelines
- Test Plans**
 - Test plans
 - Progress report
 - Parameters
 - Configurations
 - Runs
 - Artifacts
- Project settings

Patient Registrati...

Apr 5 - Apr 19 **Past**

100% run, 50% passed. [View report](#)

Test Suites

Filter suites by name

Patient Registration Module (2)

Patient Registration Module (ID: 27)

Define Execute Chart

Test Cases (2 items)

Test Case	Order	Test Case Id	Author
Title			
Register New Patient Successfully	1	28	swarna lakshmi
Show Validation Error for Missing Required Fields	2	29	swarna lakshmi

Extensions

Full access
These extensions can see and change information on this site.

- Kaspersky Protection
- Test & Feedback
- Manage extensions

5. Running the test cases

Azure DevOps swarnalakshmbalakumar25... / Hospital Management / Test Plans / Patient Registration Module

Hospital Management

- Overview
- Boards
- Repos
- Pipelines
- Test Plans**
 - Test plans
 - Progress report
 - Parameters
 - Configurations
 - Runs
 - Artifacts
- Project settings

Patient Registrati...

Apr 5 - Apr 19 **Past**

100% run, 50% passed. [View report](#)

Test Suites

Filter suites by name

Patient Registration Module (2)

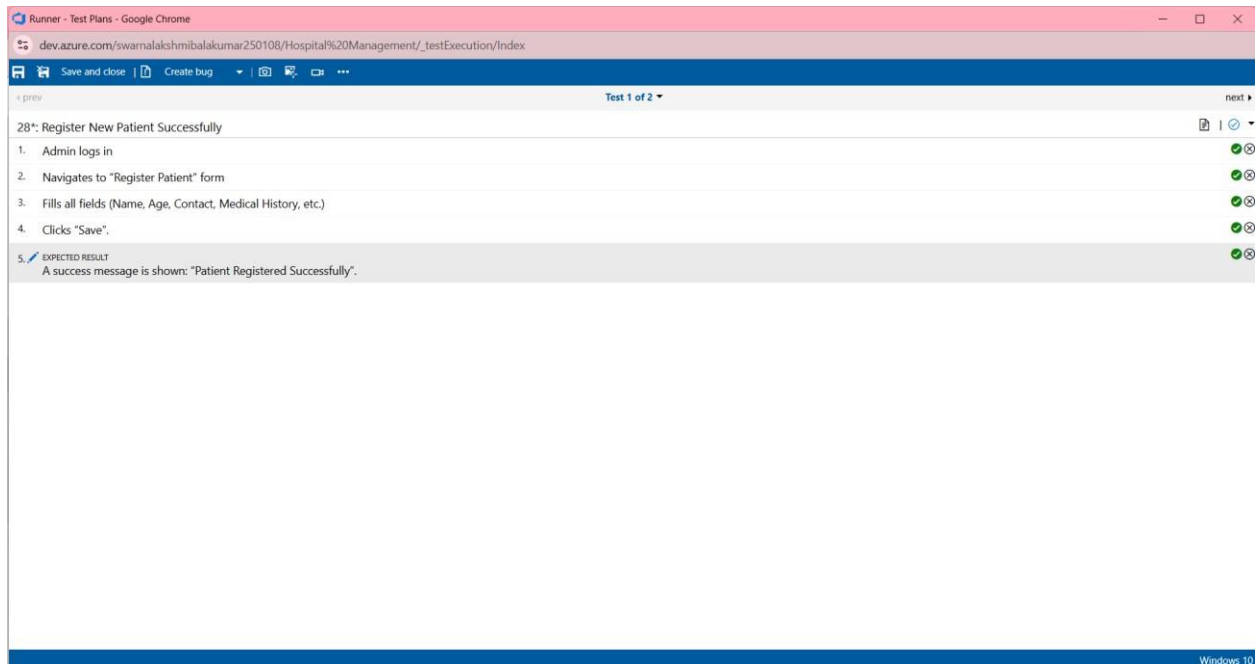
Patient Registration Module (ID: 27)

Define **Execute** Chart

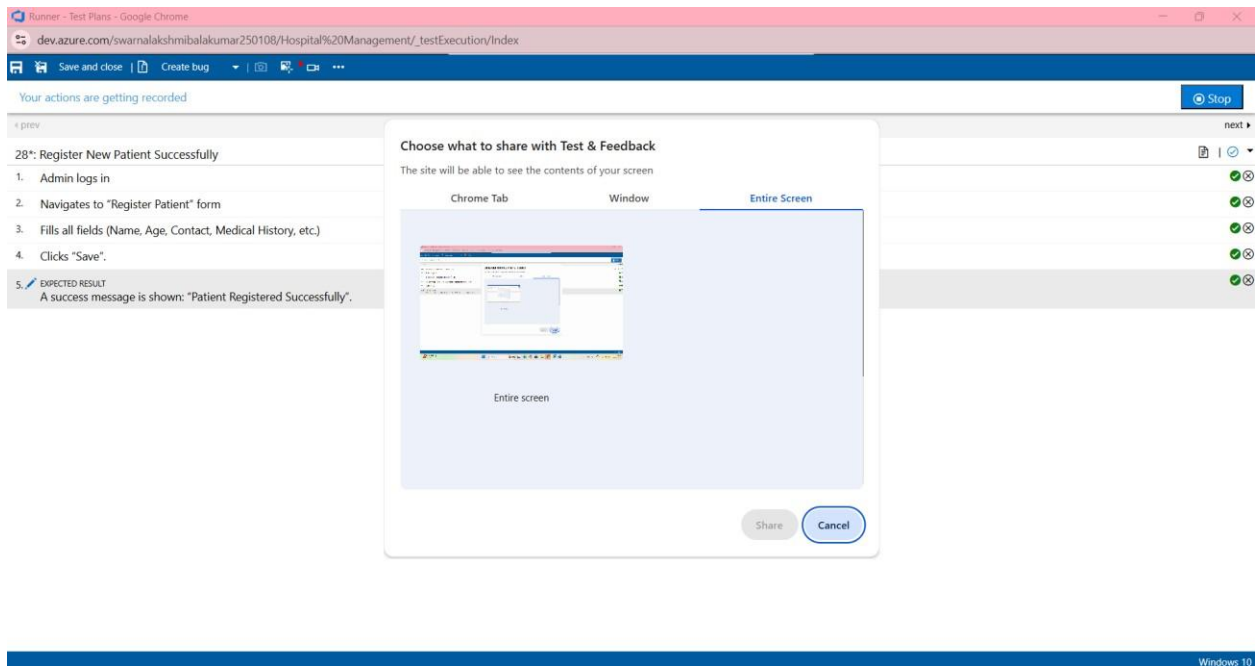
Test Points (2 items)

Run for web application

Test Point	Outcome	Order	Test Case Id
Title			
Register New Patient Successfully	Passed	1	28
Show Validation Error for Missing Required Fields	Failed	2	29



6. Recording the test case



7. Test case results

The screenshot shows the Azure DevOps interface for a project named 'Hospital Management'. The left sidebar contains navigation links for Overview, Boards, Repos, Pipelines, Test Plans, Test plans, Progress report, Parameters, Configurations, Runs, and Artifacts. The main area displays the 'Appointment Booking Module (ID: 31)' test plan. The 'Test Suites' section shows 'Appointment Booking Module (2)' with a filter by name. The 'Test Points (2 items)' table lists the following test results:

Title	Outcome	Order	Te...	Configuration
Book Appointment Successfully	Passed	1	32	Windows 10
Prevent Double Booking	Failed	2	33	Windows 10

8. Test report summary

The screenshot shows a test report summary for a bug titled 'Field Title cannot be empty'. The bug is assigned to 'Hospital Management' and is in the 'New' state. The 'Repro Steps' section lists the following steps:

1. **Passed** Patient logs into the Azure-hosted patient portal
2. **Passed** Navigates to "Book Appointment"
3. **Passed** Selects Doctor, Date, and Available Time Slot.
4. **Passed** Clicks "Confirm".
5. **Passed**

The 'Expected Result' section is empty. The 'Planning' section shows the following details:

- Resolved Reason
- Story Points
- Priority: 2
- Severity: 3 - Medium
- Activity
- Effort (Hours): Original Estimate, Remaining, Completed

The 'Deployment' section contains 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'.

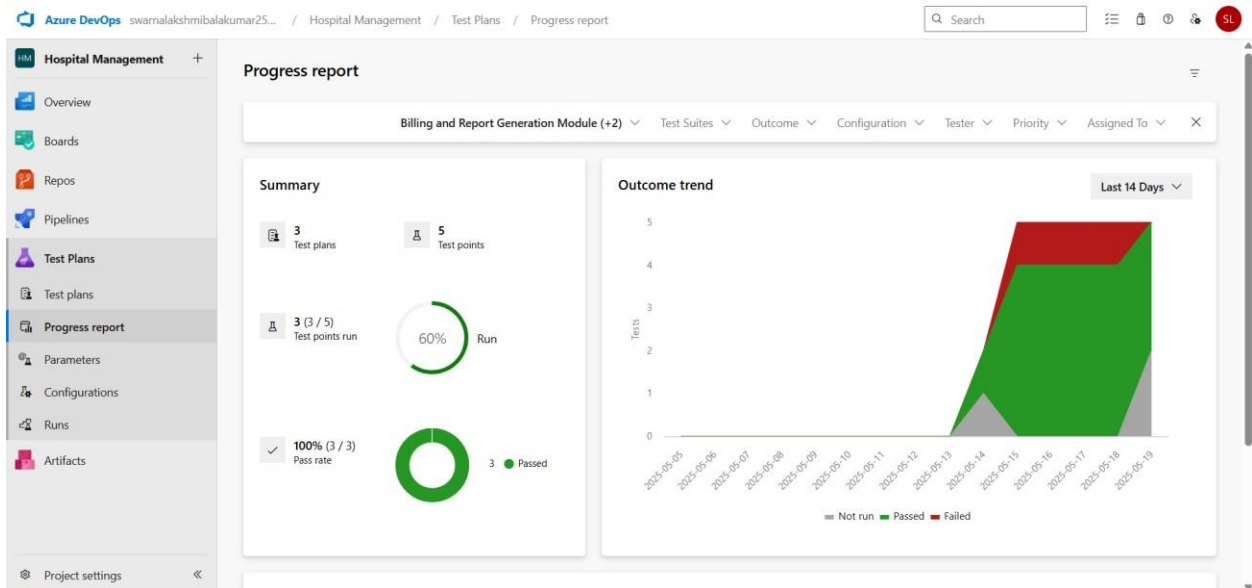
The 'Development' section contains a message: 'Link an Azure Repos commit, pull request or branch to see the status of your development. You can also create a branch to get started.'

The 'Related Work' section contains a message: 'Add an existing work item as a parent.'

The 'Tested By' section shows the test was performed by 'Book Appointment Successfully' on 5/15/2025, with a Design configuration.

The 'System Info' section shows the build found in the build.

9. Progress report



10. Changing the test template

Azure DevOps swarnalakshmbalakumar250108 / Settings / Process

Organization Settings swarnalakshmbalakumar250108

Search Settings

General

- Overview
- Projects
- Users
- Billing
- Global notifications
- Usage
- Extensions
- Microsoft Entra

Security

- Security overview
- Policies
- Permissions

Boards

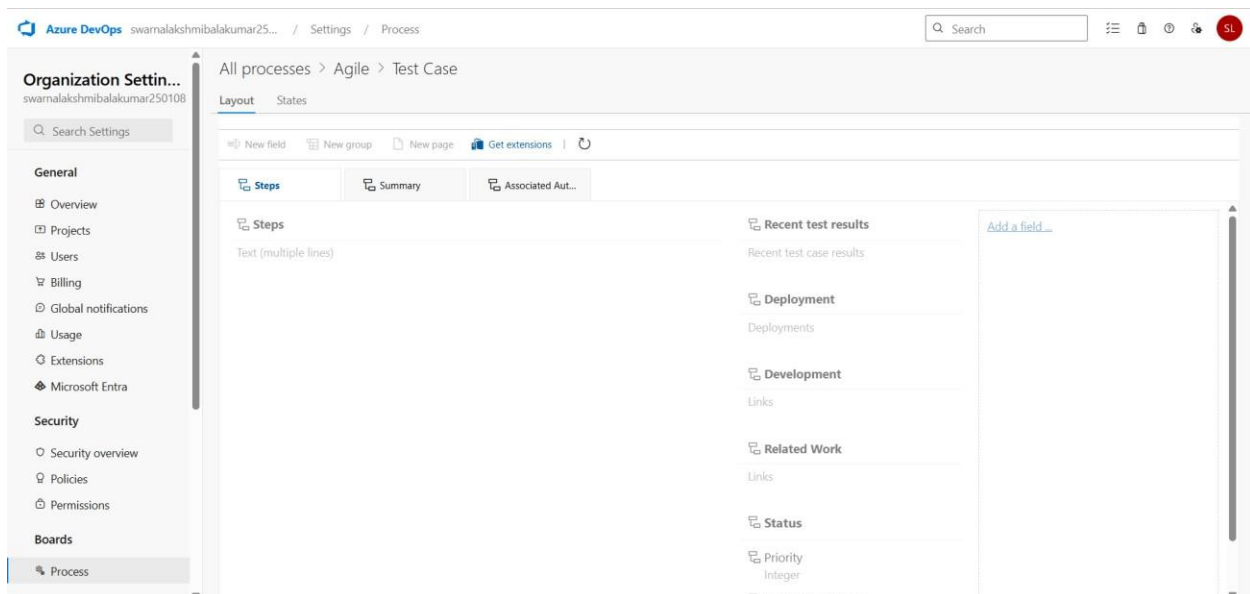
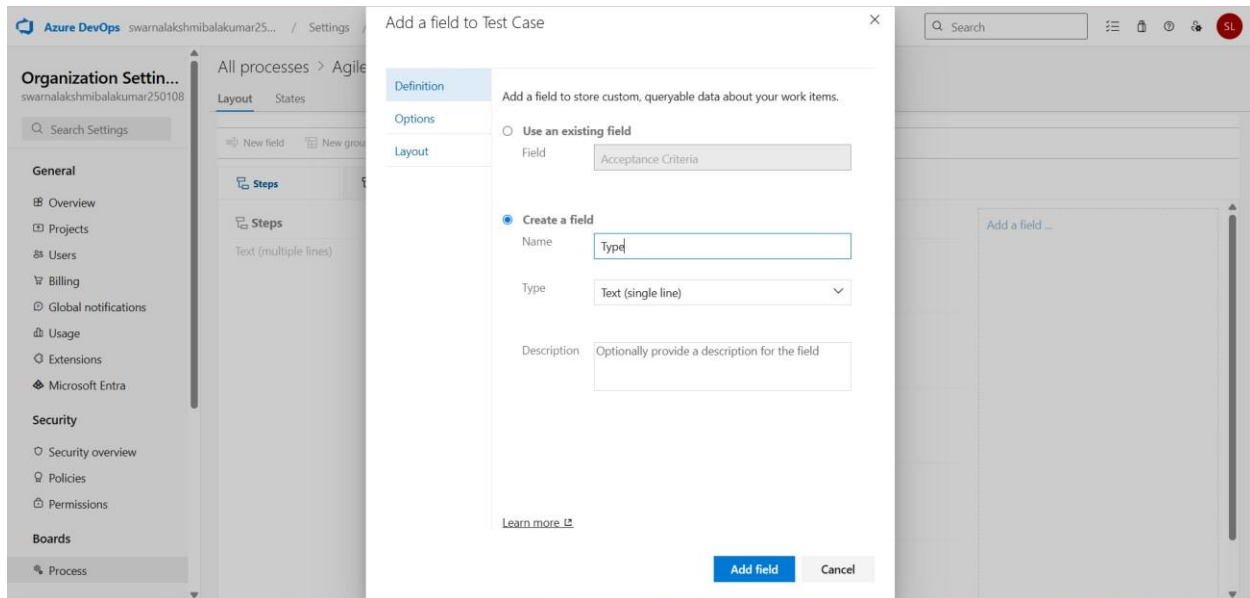
- Process

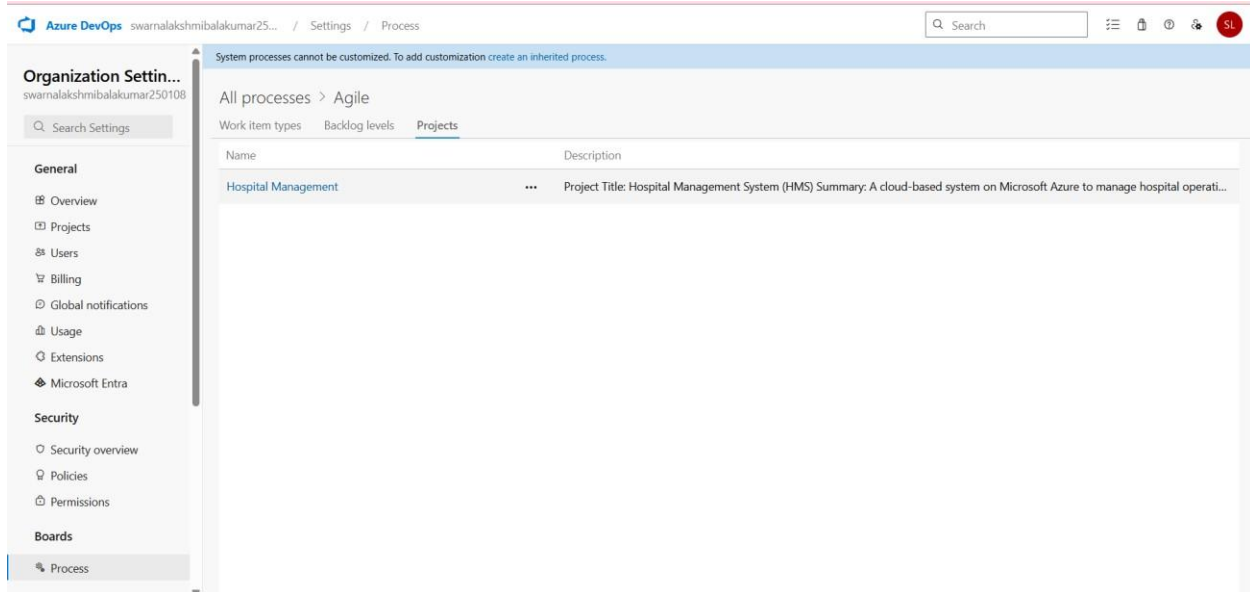
All processes

Processes Fields

Name	Description	Team projects
Basic (default)	This template is flexible for any process and great for teams getting started with Az...	0
Agile	This template is flexible and will work great for most teams using Agile planning me...	1
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 improv...	0

11.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

Aim:

To implement a Continuous Integration and Continuous Deployment (CI/CD) pipeline in Azure DevOps for automating the build, testing, and deployment process of the Hospital Management System, ensuring faster delivery and improved software quality.

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, select your organization, and open the project where your Hospital 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 the 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)
1. 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 the task linked to your subscription and app details.

13. Set Triggers and Approvals

Enable a 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

Azure DevOps

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Hospital Management

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Library

Test Plans

Artifacts

Project settings

#7 • Add files via upload

Hospital Management-CI

Run new

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

Summary

Code Coverage

Manually run by swarna lakshmi

Repository and version
Hospital Management
main 55a603fc

Time started and elapsed
Sat at 2:54 PM
30s

Related
0 work items
1 published; 1 consumed

Tests and coverage
Get started

View 3 changes

Jobs

Name	Status	Duration
Agent job 1	Success	13s

Azure DevOps

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Hospital Management

Overview

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Pipelines

Pipelines

Environments

Library

Test Plans

Artifacts

#8 • Add files via upload

Hospital Management-CI

Run new

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

Summary

Code Coverage

Manually run by swarna lakshmi

Repository and version
Hospital Management
main 55a603fc

Time started and elapsed
Sat at 2:55 PM
19s

Related
0 work items
1 published; 1 consumed

Tests and coverage
Get started

Jobs

Name	Status	Duration
Agent job 1	Success	14s

Azure DevOps swarnalakshmbalakumar25... / Hospital Management / Pipelines / Hospital Management-CI

Search

Hospital Management +

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Project settings

Hospital Management-CI

Edit Run pipeline

Runs Branches Analytics

Description	Stages	Run	Duration
<p>#8 • Add files via upload</p> <p>Manually triggered for main 55a603fc</p>	<p>✓</p>	<p>Saturday</p> <p>19s</p>	<p>⋮</p>
<p>#7 • Add files via upload</p> <p>Manually triggered for main 55a603fc</p>	<p>✓</p>	<p>Saturday</p> <p>30s</p>	<p>⋮</p>

Result:

Thus, the pipelines for the given project, “Hospital Management System” has been executed successfully

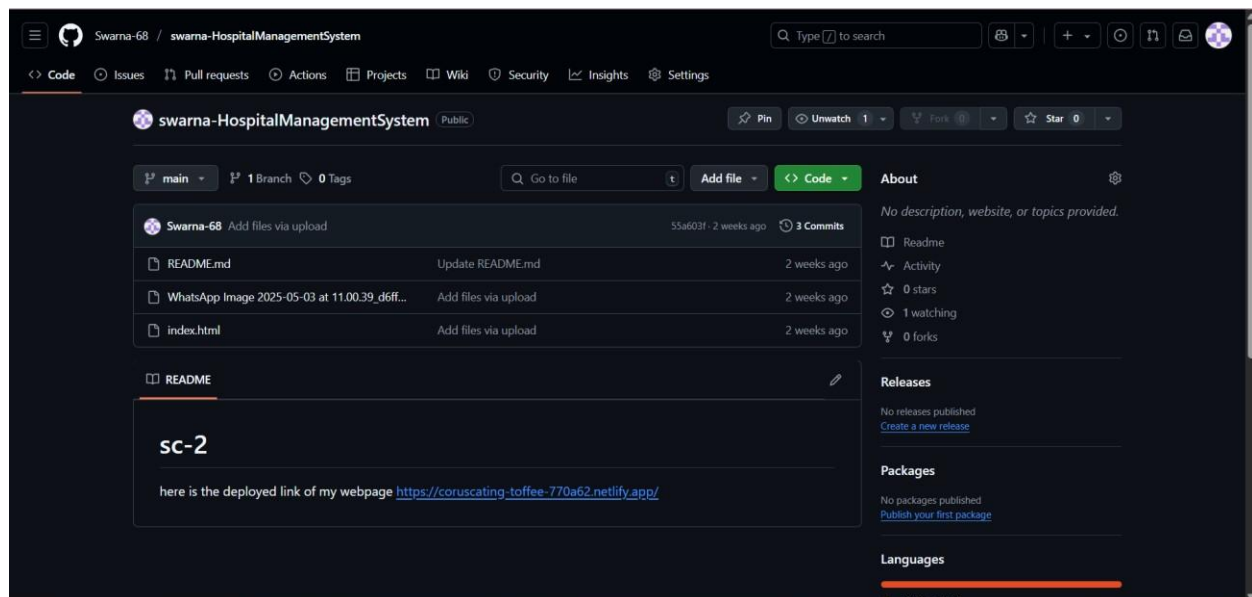
EXP NO:10

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 project- Hospital Management System.

GitHub Project Structure



Result:

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