

RAJALAKSHMI ENGINEERING COLLEGE
RAJALAKSHMI NAGAR, THANDALAM - 602 105



**RAJALAKSHMI
ENGINEERING COLLEGE**
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY,
Chennai

(REGULATION 2023)

**CS23432
Software Construction**

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE
LABORATORY RECORD NOTEBOOK**

ARULOLI MS Name:

2nd/AIML/FA

Year/ Branch / Section :

2116-231501020 Register

No.:

4th Semester

Semester :

2024-2025

Academic Year:



RAJALAKSHMI ENGINEERING COLLEGE
(AUTONOMOUS)

RAJALAKSHMI NAGAR, THANDALAM- 602 105

BONAFIDE CERTIFICATE

ARULOLI MS 2116-231501020 NAME

REGISTER NO.

ACADEMIC YEAR 2024-25 SEMESTER-IV BRANCH: AIML-B.Tech

This Certification is the Bonafide record of work done by the above student
in the CS23432- Software Construction Laboratory during
the year 2024 2025.

Signature of Faculty -in Charge

Submitted for the Practical Examination held on

INDEX

ARULOLI MS AIML Sec:Roll no: FA

¹Name: Branch:

S. No.	Date	TITLE	Page No.	Teacher's Signature Remarks
1.	8/2/25	Azure DevOps Environment Setup		
2.	15/2/25	Azure DevOps Project Setup and User Story Management		
3.	22/2/25	Setting Up Epics, Features, and User Stories for Project Planning		
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5.	8/3/25	Poker Estimation		
6.	22/3/25	Designing Class and Sequence Diagrams for Project Architecture		
7.	29/3/25	Designing Architectural and ER Diagrams for Project Structure		
8.	5/4/25	Testing — Test Plans and Test Cases		
9.	12/4/25	Load Testing and Performance Testing		
10.	19/4/25	Github: Project Structure & Naming Conventions		

EXP NO: 1 DATE:	AZURE DEVOPS ENVIRONMENT SETUP
--------------------	---------------------------------------

Aim:

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

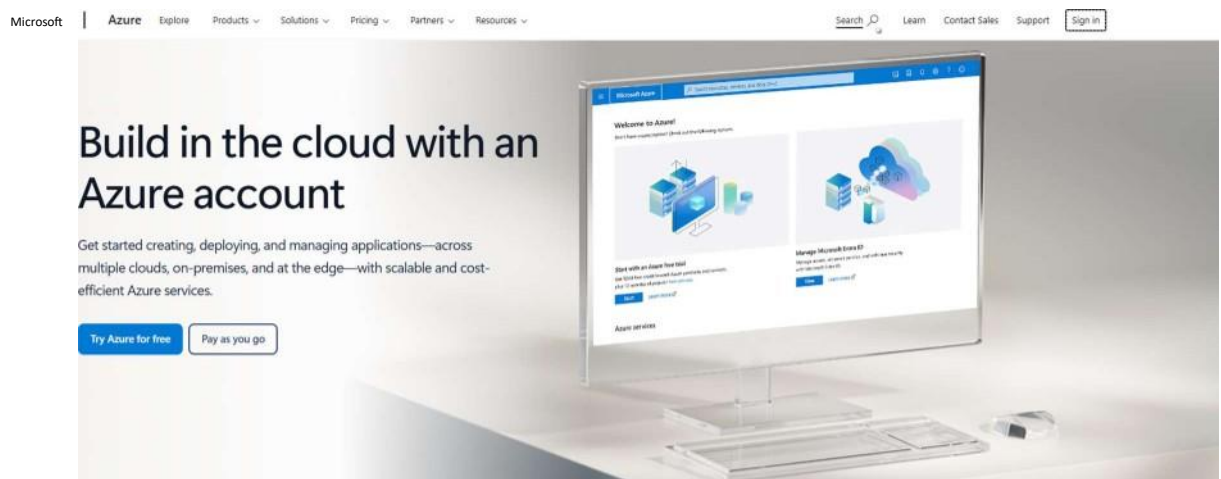
INSTALLATION

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

<https://azure.microsoft.com/enus/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=l>

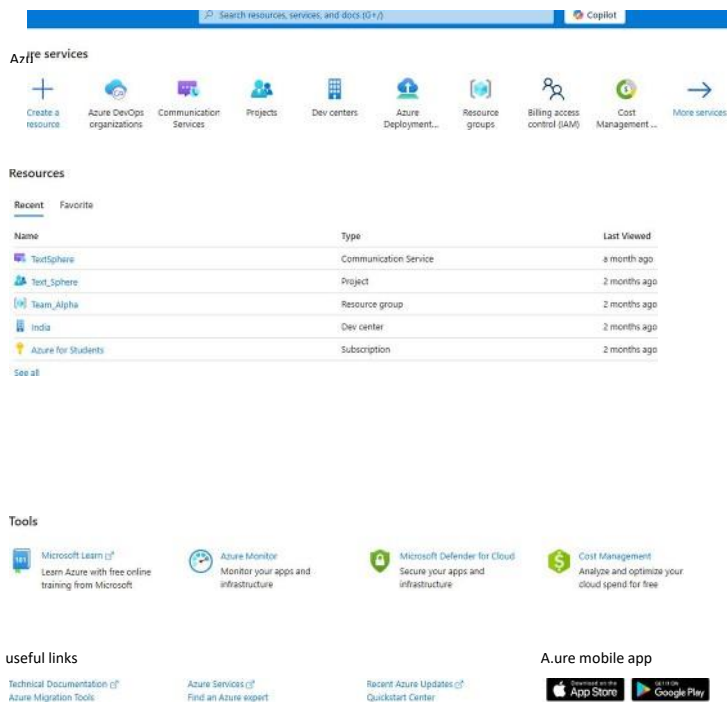


Choose the Azure account that's right for you

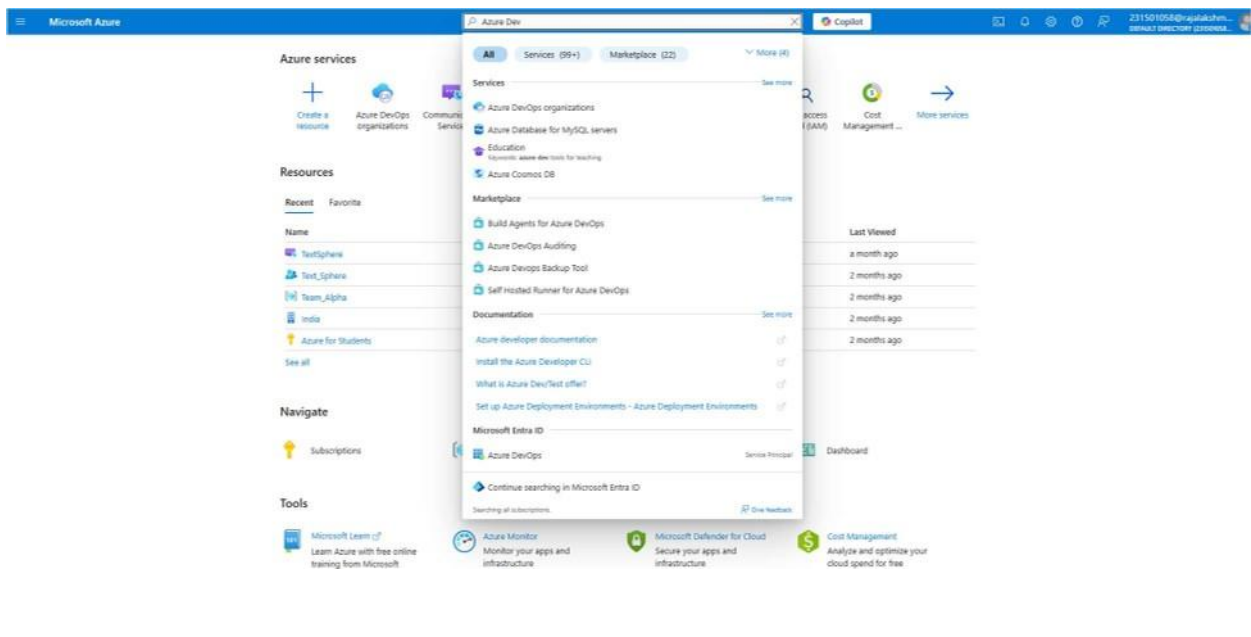
Pay as you go Azure free to There upfront commitment—cancel

231501020

2. Azure home page



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



4. IIC on the My Azure DevOps Organization link and create an organization and you should be taken to the Azure DevOps Organization Home page.

Azure DevOps

We've made it easier to manage Azure DevOps billing and subscriptions. You can [set up billing](#), [change your subscription](#) or [pay for more users and resources](#) within Azure DevOps. [Learn more](#)

Azure DevOps

Plan smarter, collaborate better, and ship faster with a set of modern dev services

[My Azure DevOps Organizations](#)

[Get started using Azure DevOps](#)
[Billing management for Azure DevOps](#)

[Give feedback](#)

R Tell us about your experience with the Azure DevOps page



Result:

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

231501020

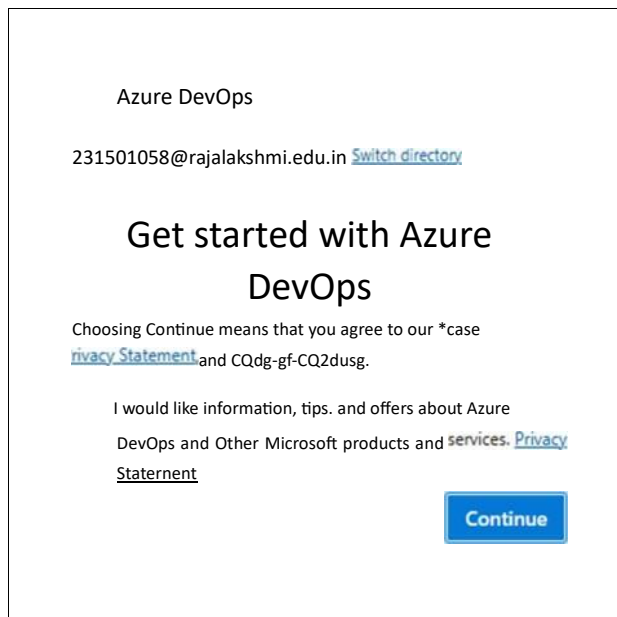
EXP NO: 2

AZURE DEVOPS PROJECT SETUP AND USER STORY MANAGEMENT

Aim:

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

I. 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.

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CS23432

Create new project

X

Project name

Text.Sphere

Description

SMS/Text Messaging Service : Build a web-based or mobile application that can send and receive SMS or text messages. potentially with additional features like scheduling, group messaging. or integration with other communication channels.

Visibility

Public

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

Private

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

Public projects are disabled for your organization. You can turn on public visibility with QigangatiQ!L2Qlicies.

A Advanced

Version

Git

control O

Work item process O


Agile

Cancel

Create

- 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.

Azure



Harish M

231 31058@rajalakshmi.edu.in

Microsoft account

India

2315010-580raja1akshmiLeduin

DevOps Organizations

Create new organization

v.dev.azure.com/TextSphereMain (Owner)

Projects

TextSphere

New project

Actions

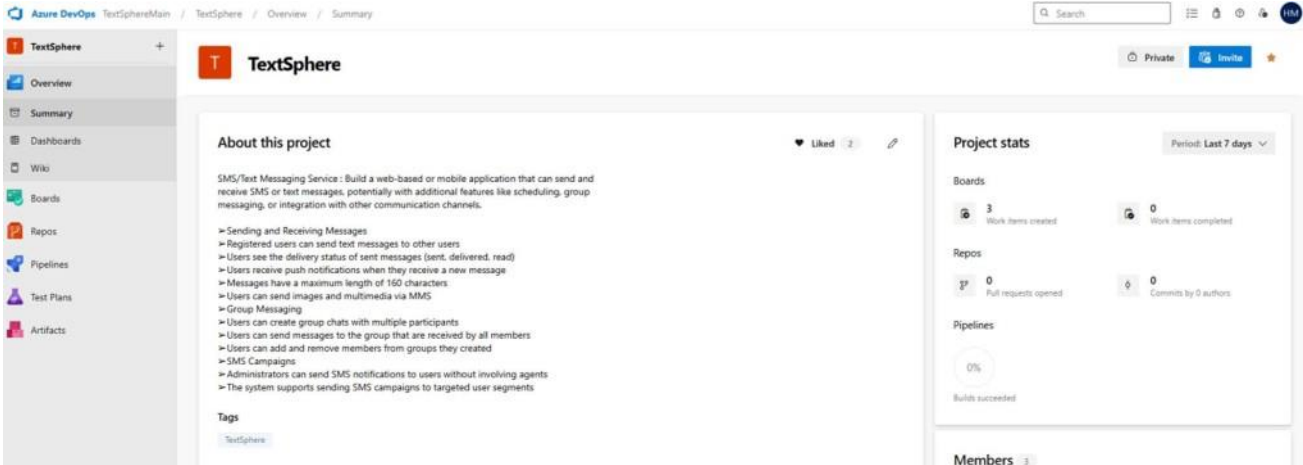
Open in Visual Studio

Organizations Pending Deletion - Expand

Visual Studio Dev Essentials

Get everything you need to build your app on any platform using our benefits

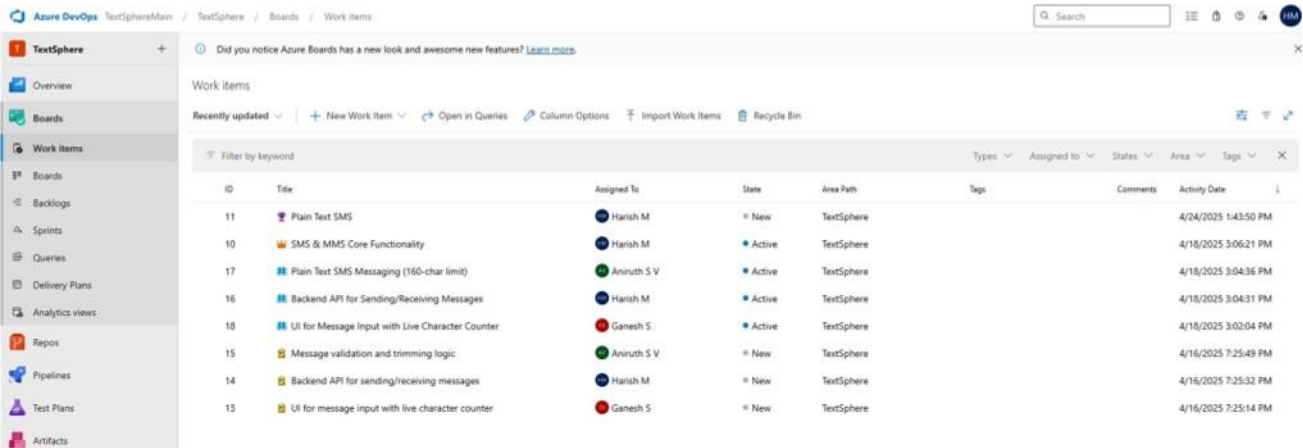
4. Project dashboard



000

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

= TextSphere Team v Cz + New Work Item ⌵

Backlog Analytics

Order	Work Item	TypeTags	State	Effort	Busin...	Value Area
1	Epic	v W SMS & MMS core Functionality	Active	13	1	Business
	Feature	Plain rat SMS ul for with live character counte	New			Business
	Task		New			

1.Fill in Epics

10 SMS & MMS core Functionality

Harish M 0 Comments Add Tag

Status: Active Area: TextSphere
Reason: Implementation started Iteration: TextSphere\Iteration 1

Description

This Epic focuses on the implementation of core SMS and MMS functionalities including sending, receiving, storing, and managing plain text messages and multimedia messages. It also includes message length validation and backend APIs for both functionalities.

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

Priority: 2
Risk: 2 - Medium
Effort: 13
Business Value: 1
Time Criticality: 1
Start Date: 4/16/2025 7:22 PM

4/30/2025 12m AM

Classification

Value area: Business

2.Fill in Features

FEATURE 11

11 Plain Text SMS

Harish M

0 Comments Add Tag

State New

Area TextSphere

Reason New

Iteration TextSphere\Iteration 1

Description

Click to add Description.

ription.

Comment. Use # to link a work item, @ to mention a person, or / to link a pull request.

switch to Markdown editor

Planning

Priority 2

Risk

Effort

Business Value

Time Criticality

Start Date Select a date...

Target Date Select a date...

Classification

Value area Business

3.FiII in User Story Details

n USER 17

17 plain Text SMS Messaging (160-char limit)

Aniruth S V

0 Comments Tag

State Active

Reason Implementation started

TextSphere

Textsphere\Iteration I

Description

As a user, I want to send simple messages within 160 characters so the app feels like a real SMS interface

Acceptance Criteria

Acceptance Criteria:

- Only messages with s 160 characters are allowed.

Classification

- Frontend prevents submission Of long messages.
- Backend enforces the limit with validation.

Planning

Story points 3

Priority 2

Risk 3 LOW

Discussion

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 SMS/MMS Sending Project.

Sprint Planning Sprint 1

A TextSphere Team v o

Taskboud Backlog Capacity Analytics

Iteration V

An V

Collapse all

New

Unparented

14 Backend API for sending/receiving messages

New

Harish M

16 Backend API for Sending/Receiving Messages

Active

Harish M

18 UI for Message with Live Character Cou

Active

Ganesh S

Input

Sprint 2

TextSphere Team v

Taskboard Backlog Capacity Analytics

Iteration 2

Person: All

Collapse all

New

Unparented

13 UI for message input with live character counter

New

Ganesh S

17 Plain Text Messaging (160-c

Active

Aniruth S V

SMS

Sprint 3

A TextSphere Team v

TaskbOMd Backlog Capacity Analytics

Iteration 3

Collapse all

New

Unparented

15 Message validation and trimming logic

New

Aniruth S V

Result:

The Sprints are created for SMS/MMS Sending Project.

EXP NO: 5	POKER ESTIMATION
-----------	------------------

Aim:

Create Poker Estimation for the user stories SMS/MMS Sending Project.

Poker Estimation

USER STORY 16

16 Backend API for Sending/Receiving Messages o

Harish M

State: Active

Reason: Implementation Started

0 Comments

Add Tag

Area

TextSphere

Iteration

TextSphere\Iteration 1

Description

As a registered user,
I Want to send and
Acceptance Criteria

Text and multimedia messages using the backend
with others on the platform in real-time.

receive text and

APIs so that I Can communicate

Planning

Story Points
8
Priority
1
Risk

Classification

Value area
Business

Acceptance Criteria:

- Users can send and receive text and
- Messages are stored in CosmosDB.
- Image messages are uploaded to Azure Blob Storage and linked in the database.
- Appropriate MIME type validation is enforced.

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

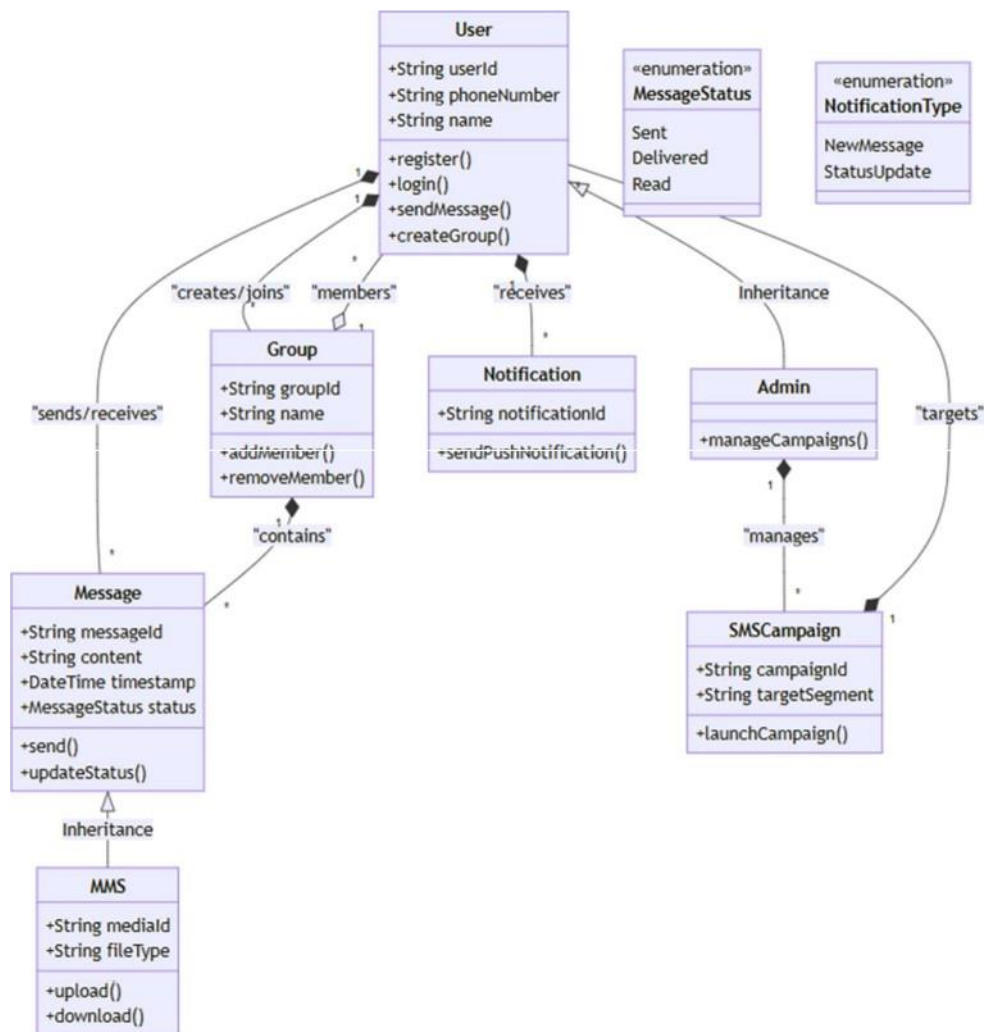
TextSphereMain / TextSphere

Overview

Wiki

Class Diagram-Text Sphere

Harisr V Just now

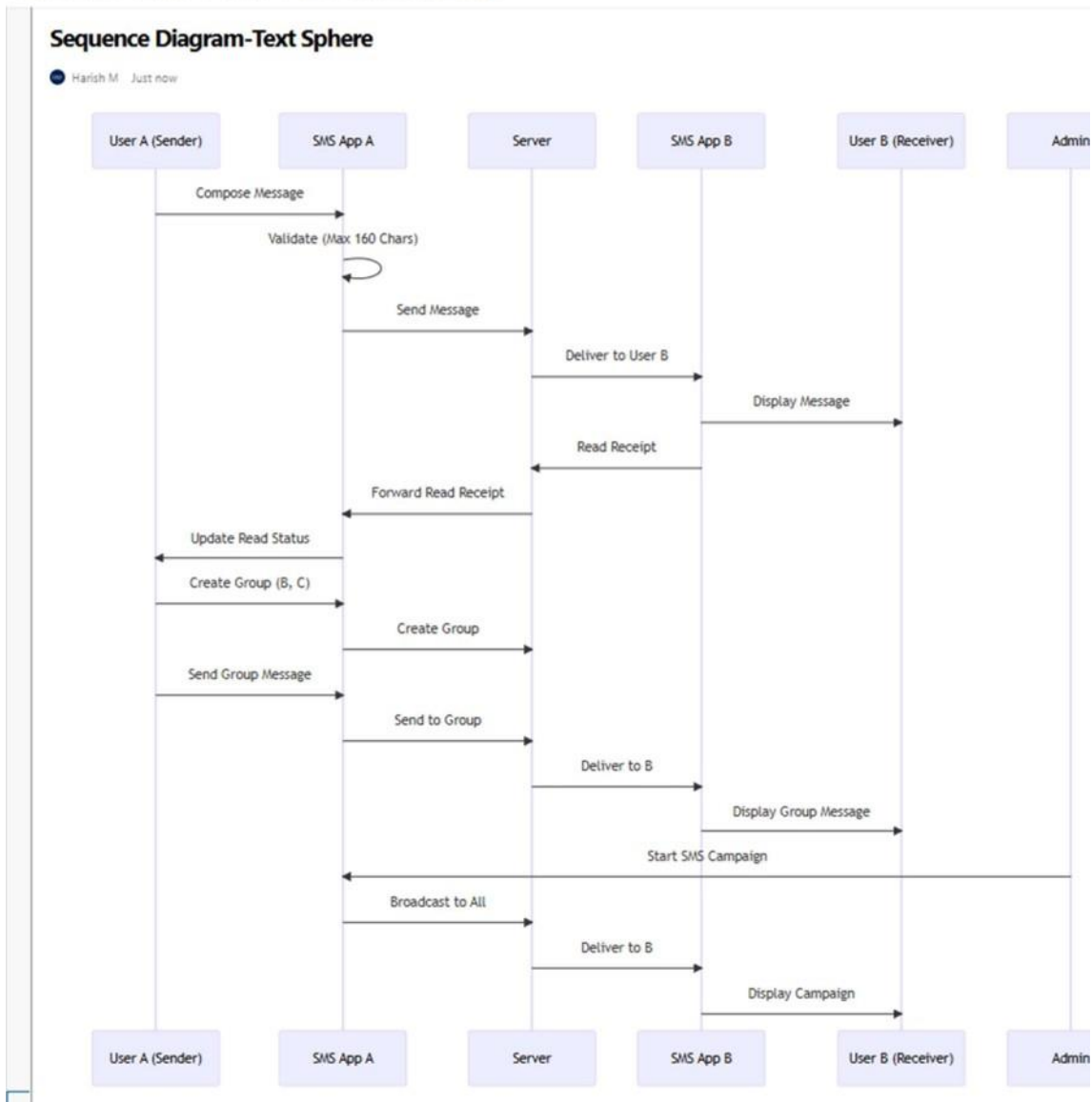


Class

Diagram-Text Sphere

6B. Sequence Diagram

TextSphereMain / TextSphere / Overview / Wiki / Sequence Diagram-Text Sp...



Result:

The Class Diagram and Sequence Diagram is designed Successfully for the SMS/MMS Sending Project

EXP NO: 7	DESIGNING ARCHITECTURAL AND ER DIAGRAMS FOR PROJECT STRUCTURE
-----------	--

Aim:

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

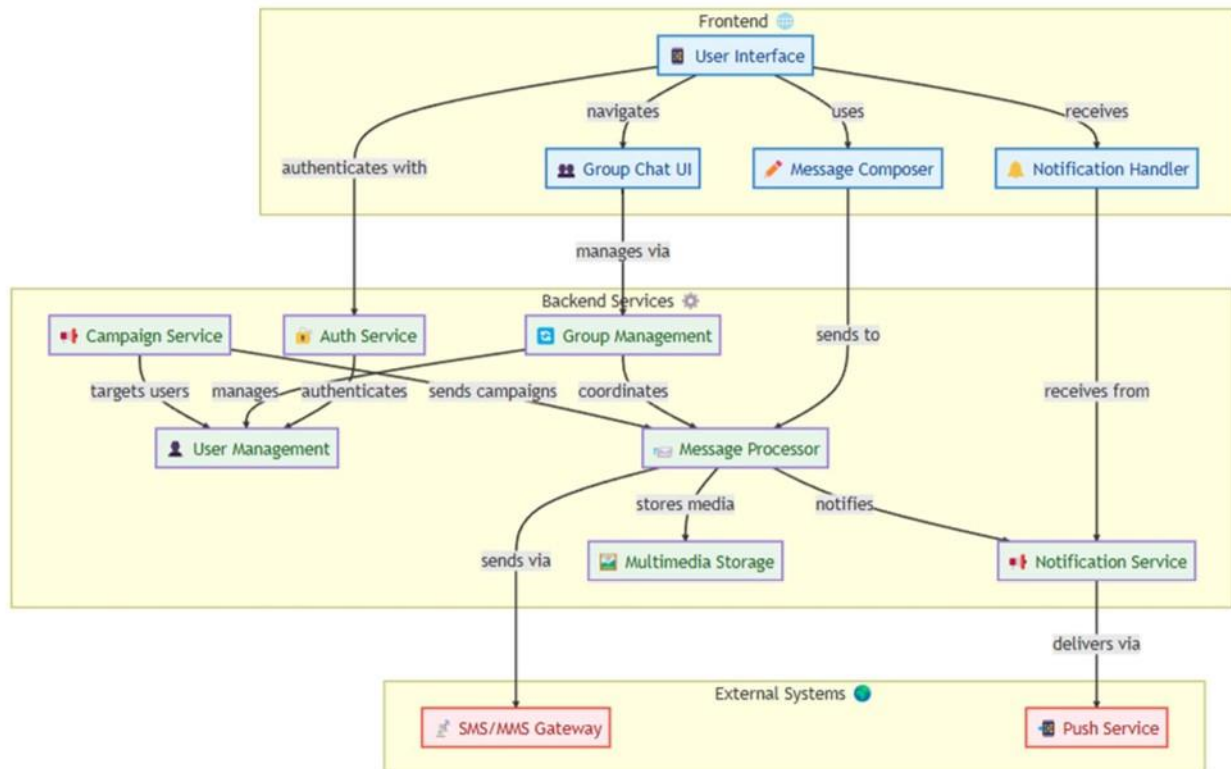
7A. Architectural Diagram

TextSphereMain / Texts-here f Cr.erview / Wiki

Architecture Diagram - Text...

Architecture Diagram - Text Sphere

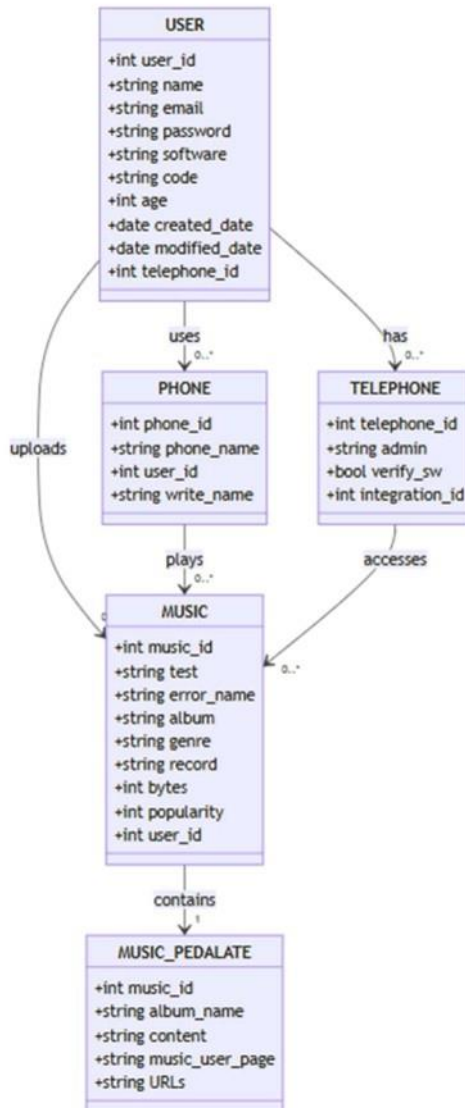
Harish M Just now



7B.ER Diagram

ER Diagram - Text Sphere

Harish M Just now



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.

SMS/Text Messaging Service - Test Plans

Here's the test plan, incorporating your user stories and providing a structure for testing in Azure DevOps:

USER STORIES

- As a user, I want to send and receive text messages to other users (ID: SMS01).
- Users see the delivery status of sent messages (sent, delivered, read) (ID: SMS02).
- Users receive push notifications when they receive a new message (ID: SMS03).
- Messages have a maximum length of 160 characters (ID: SMS04).
- Users can send images and multimedia via MMS (ID: SMS05).
- Users can create group chats with multiple participants (ID: SMS06).
- Users can send messages to the group that are received by all members (ID: SMS07).
- Users can add and remove members from groups they created (ID: SMS08).
- Administrators can send SMS notifications to users without involving agents (ID: SMS09).
- The system supports sending SMS campaigns to targeted user segments (ID: SMS10).

Test Suites

Here's how the test suites could be organized in Azure DevOps, based on the user stories:

- Test Suite: TS01 - Sending and Receiving Messages (ID: 91)
- Test Suite: TS02 - Message Delivery Status (ID: 92)
- Test Suite: TS03 - Push Notifications (ID: 93)
- Test Suite: TS04 - Message Length Validation (ID: 94)
- Test Suite: TS05 - Multimedia Messaging (MMS) (ID: 95)
- Test Suite: TS06 - Group Messaging - Creation (ID: 96)
- Test Suite: TS07 - Group Messaging - Sending Messages (ID: 97)
- Test Suite: TS08 - Group Messaging - Membership Management (ID: 98)
- Test Suite: TS09 - SMS Campaigns - Sending (ID: 99)
- Test Suite: TS10 - SMS Campaigns - Targeting (ID: 100)

Test Cases

Test Suite: TS01 - Sending and Receiving Messages (ID: 91)

- 1.TC01 - Successful Message Send and Receive (ID: 101) ○

Action:

- Log in as User A.
- Compose a new message to User B. ■ Enter valid text within the character limit.
- Click "Send."
- Log in as User B.
- Open the message from User A.
 - Expected Results:
- User A: Message is sent successfully.
- User B: Message is received and displayed correctly.

- Type: Happy Path
2. TC02 - Send Message to Invalid User (ID: 102)
- o Action:
 - Log in as User A.
 - Compose a new message to a non-existent user ID.
 - Enter valid text. ▪ Click "Send." o Expected Results:
 - Error message is displayed: "Recipient user not found. " ▪ Message is not sent.
 - Type: Error Path

Test Suite: TS02 - Message Delivery Status (ID: 92)

1. TC03 - Verify Message Delivery Status Updates (ID: 103) o
- Action:
 - Log in as User C.
 - Send a message to User D.
 - Observe the message status on User C 's interface.
 - Log in as User D and open the message.
 - Observe the message status on User C 's interface again.
 - o Expected Results:
 - User C: Message status changes from "Sent" to "Delivered" when User D receives it, and to "Read" when User D opens it. ▪ Type: Happy Path
2. TC04 - Delivery Status When Recipient is Offline (ID: 104)
- o Action:
 - Log in as User E.
 - Send a message to User F, who is currently offline.
 - Observe the message status on User E's interface. ▪ Log in as User F and check for the message o Expected Results:
 - User E: Message status remains "Sent" until User F comes online. ▪ User F: User F receives the message.
 - Type: Error Path

Test Suite: TS03 - Push Notifications (ID: 93)

1. TC05 - Receive Push Notification for New Message (ID: 105) o
- Action:
 - Log in as User G on a mobile device with push notifications enabled.
 - Log in as User H on a separate device.
 - User H sends a message to User G.
 - Observe User G's mobile device (with the app in the background or closed). o Expected Results:
 - User G's device displays a push notification for the new message. ▪ Type: Happy Path
2. TC06 - Push Notification Failure Due to Disabled Settings (ID: 106)
- o Action:

- Log in as User I on a mobile device with push notifications disabled for the messaging app.
- Log in as User J on a separate device.
- User J sends a message to User I. ▪ Observe User I's mobile device. ○ Expected Results:
- User I's device does not display a push notification. ▪ User I can still see the message when opening the app. ▪ Type: Error Path

Test Suite: TS04 - Message Length Validation (ID: 94)

1.TC07 - Send Message Within Character Limit (ID: 107) ○

Action:

- Log in as User K.
- Compose a message with exactly 160 characters. ▪ Click "Send. " ○ Expected Results:
- Message is sent successfully.
- Type: Happy Path

2. TC08 - Send Message Exceeding Character Limit (ID: 108)

○ Action:

- Log in as User L.
- Compose a message with 161 characters. ▪ Click "Send. " ○ Expected Results:
- Error message is displayed: "Message exceeds the maximum character limit (160)."
- Message is not sent.
- Type: Error Path

Test Suite: TS05 - Multimedia Messaging (MMS) (ID: 95)

1. TC09 - Send message with an image. (ID: 109) ○

Action:

- Log in as User M.
- Compose a new message to User N.
- Attach a valid image file. ▪ Click "Send." ○ Expected Results:
- The image is sent and received successfully.
- The image is displayed correctly on User N's device.
- Type: Happy Path

2. TCIO - Send message with an unsupported file type.

(ID: 110) ○ Action:

- Log in as User O.
- Compose a new message to User P
- Attach a file of an unsupported type (e.g., .exe). ▪ Click "Send." ○ Expected Results:
- Error message is displayed: "Unsupported file type." ▪ The file is not sent.
- Type: Error Path

Test Cases

TextSphere / Boards / Work items

Search

Recently updated Back to Work Items

TEST CASE 28

28 Message test 2

Aniruth S V 0 Comments Add Tag

Save Follow

Updated by Aniruth S V 2h ago

Statg Design Area TextSphere

Reason New Iteration TextSphereIteration 3

Steps Summary Associated Automation

Steps

Steps	Action	Expected result	Attachment
1.	Click on		action1
2.	Update input field with value 'je:p'	Typing zone is interactable	action1
3.	Update input field with value 'je:p'		action1
4.	Update input field with value 'hello'	Typing Zone allows correction of messages before sending	action1
5.	Press	Typing zone works when pressing enter directly	action1
6.	Click on		action1
7.	Update input field with value 'W'		action1
8.	Update input field with value "		action1

Parameter values

Discussion

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

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 a GitHub [commit](#), [pull request](#) or [branch](#) to see the status of your development. You can also [create a branch](#) to get started. [Learn more](#)

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

29 Testing Updated 59m ago Active

Status

Priority

TextSphereMain / TextSphere / Boards / Work items

Work items

Recently updated New Work Item Open in Queries Column Options Import Work Items Recycle Bin

Filter by keyword Types Assigned to States Area Tags X

ID	Title	Assigned To	State	Area Path	Tags	Comments	Activity Date
33	Bug found in settings	Harish M	Active	TextSphere			4/28/2025
30	Bug Finding	Aniruth S V	Design	TextSphere			4/28/2025
32	Notification test	Aniruth S V	Design	TextSphere			4/28/2025
29	Testing	Aniruth S V	Active	TextSphere			4/28/2025
28	Message test 2	Aniruth S V	Design	TextSphere			4/28/2025
27	Messaging test	Aniruth S V	Design	TextSphere			4/28/2025
26	Test 2	Harish M	Design	TextSphere			4/26/2025
25	MMS test	Aniruth S V	Design	TextSphere			4/26/2025
24	1	Aniruth S V	Design	TextSphere			4/26/2025
19	Load Test	Harish M	Design	TextSphere	API Test Test Plan		4/26/2025
23	Integration Test	Aniruth S V	Design	TextSphere	API Test Integration		4/26/2025
17	Plain Text SMS Message (160-char limit)	Aniruth S V	Active	TextSphere			4/24/2025

1. Installation of test

chrome web store

Discover Extensions Themes

Search extensions and themes

Test & Feedback

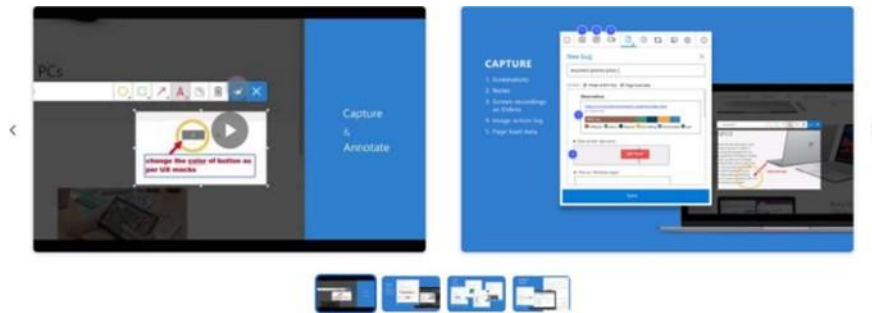
Featured 4.2 (175 ratings) Share

Extension Workflow & Planning 200,000 users

Remove from Brave

231501020

CS23432



2. Running the test cases

Test Suites

Filter suites by name

TextSphere Team Stories Iteration 1

- 29: Testing (2)
- 10: SMS & MMS Core Functionality (2)

29: Testing (ID: 31)

Execute Chart

Test Points (2 items)

Title	Outcome	Order
Bug Finding	Active	1
Notification test	Active	2

Run for web application

Run for desktop application

Run with options

Runner - Test Plans - Google Chrome

dev.azure.com/TextSphereMain/TextSphere/_testExecution/Index

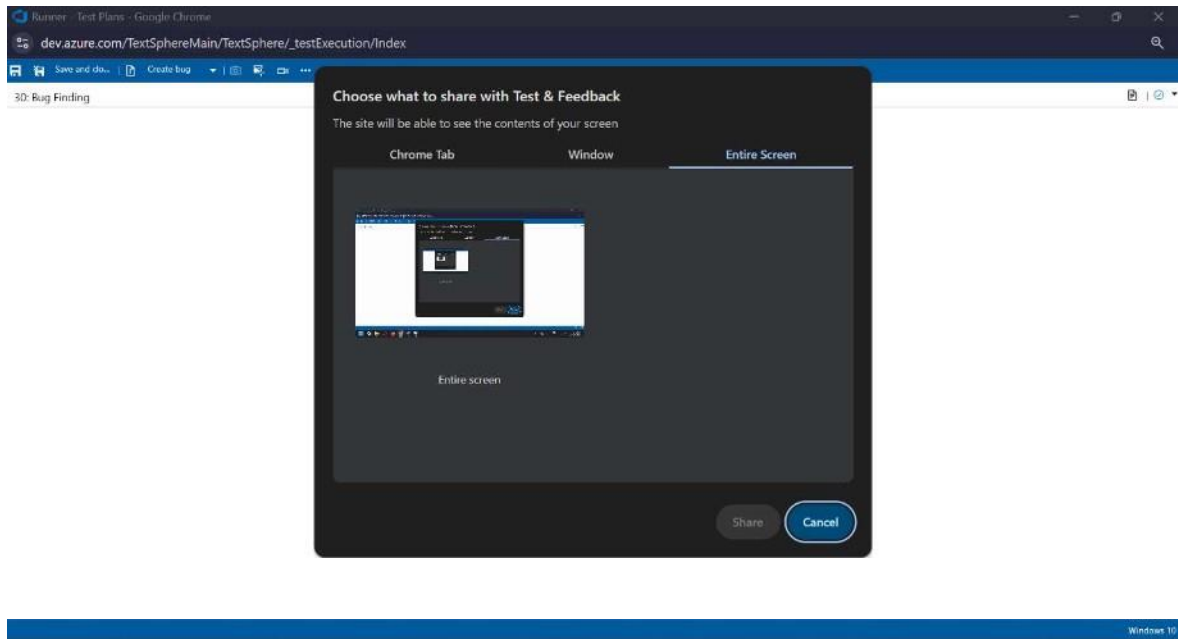
30: Bug Finding

Description

The app is tested for various bugs found in texting apps such as:

- Message Failures:** Messages not sending, getting stuck, or being delivered multiple times.
- Media Handling Issues:** Corrupted, missing, or improperly displayed multimedia attachments.
- Performance Bugs:** Slow loading, lag when switching conversations, or app crashes during heavy usage.
- UI/UX Bugs:** Broken layouts, missing buttons, incorrect timestamps, or inconsistent notification badges.
- Cross-Network Problems:** Failure when communicating between different carriers or device types (iOS <=> Android).

3. Recording the test case



4. Creating the bug

Runner - Test Plans - Google Chrome

dev.azure.com/TextSphereMain/TextSphere/_testExecution/Index

NEW BUG

Notification Bug

Unassigned 0 comments Add tag

Save & Close

Status: New Area: TextSphere Reason: New Iteration: TextSphere\Iteration 1

Details

Repro Steps

4/28/2025 2:14 PM Bug filed on "Bug Finding"

Test Configuration: Windows 10

System Info

Browser - Name	Google Chrome 135
Browser - Language	en-US
Browser - Height	1089
Browser - Width	1296
Browser - User agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/135.0.0.0 Safari/537.36
Operating system - Name	Windows NT 10.0; Win64; x64
Operating system - Architecture	x86_64
Operating system - Processor model	AMD Ryzen 7 7700X 8-Core Processor
Operating system - Number of processors	16
Memory - Available	23748901976
Memory - Capacity	33443188736
Display - Pixels per inch (X axis)	144
Display - Pixels per inch (Y axis)	144
Display - Device pixel ratio	1.5

Planning

Resolved Reason

Story Points

Priority 2

Severity 3 - Medium

Activity

Effort (Hours)

Original Estimate

Remaining

Completed

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

We noticed that you've used GitHub with Azure Pipelines in this project. Connect Azure Boards with GitHub to see the status of your development.

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

Testing Updated an hour ago Active

Tested By

30 Bug Finding Updated 88 minutes ago Design

TextSphereMain / TextSphere / Boards / Work Items

Search

Recently updated Back to Work Items

To exit full screen, press and hold Esc

1 of 19

33 Bug found in settings

Harish M

0 Comments Add Tag

Save Follow

Updated by Anuruth S V 23m ago

Details

Repro Steps

4/26/2025 1:30 PM Bug filed on "Bug Finding"

Test Configuration: Windows 10

System Info

Browser - Name	Google Chrome 135
Browser - Language	en-US
Browser - Height	872
Browser - Width	1380
Browser - User agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/135.0.0.0 Safari/537.36
Operating system - Name	Windows NT 10.0; Win64; x64
Operating system - Architecture	x64_64
Operating system - Processor model	AMD Ryzen 7 7700X 8-Core Processor
Operating system - Number of processors	16
Memory - Available	2522186888
Memory - Capacity	33443188736
Display - Pixels per inch (DPI)	144
Display - Pixels per inch (Y axis)	144
Display - Device pixel ratio	1.5

Planning

Repro Reason

Repro Points

Priority

3

Severity

4 - Low

Activity

Effort (Hours)

Original Estimate

Remaining

Completed

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 a GitHub [commit](#), [pull request](#) or [branch](#) to see the status of your development. You can also [create a branch](#) to get started. [Learn more](#)

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

773 Testing Updated 1h ago Active

Test case results

TextSphereMain / TextSphere / Test Plans / TextSphere Team_Stories_It...

TextSphere Team_...

Apr 12 - Apr 26

25% run, 100% passed. [View report](#)

Test Suites

Filter suites by name

TextSphere Team_Stories_Iteration 1

29 : Testing (2)

29 : Testing (ID: 31)

Execute Chart

Test Points (2 items)

Title

Bug Finding

Notification test

TextSphereMain / TextSphere / Boards / Work Items

Search

Recently updated Back to Work Items

1 of 19

33 Bug found in settings

No one selected

0 Comments Add Tag

Save Follow

Updated by Anuruth S V 14m ago

Details

Repro Steps

4/26/2025 1:30 PM Bug filed on "Bug Finding"

Test Configuration: Windows 10

System Info

Browser - Name	Google Chrome 135
Browser - Language	en-US
Browser - Height	872
Browser - Width	1380
Browser - User agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/135.0.0.0 Safari/537.36
Operating system - Name	Windows NT 10.0; Win64; x64
Operating system - Architecture	x64_64
Operating system - Processor model	AMD Ryzen 7 7700X 8-Core Processor
Operating system - Number of processors	16
Memory - Available	2522186888
Memory - Capacity	33443188736
Display - Pixels per inch (DPI)	144
Display - Pixels per inch (Y axis)	144
Display - Device pixel ratio	1.5

Planning

Repro Reason

Repro Points

Priority

3

Severity

4 - Low

Activity

Effort (Hours)

Original Estimate

Remaining

Completed

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 a GitHub [commit](#), [pull request](#) or [branch](#) to see the status of your development. You can also [create a branch](#) to get started. [Learn more](#)

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

773 Testing Updated 42m ago Active

Tested By

33 Bug Finding Updated 20m ago Design

System Info

Bound in Build

Integrated in Build

Discussion

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

SA/76336, Maheshwari, #234

5. Test report summary

- Assigning bug to the developer and changing state

TextSphereMain / TextSphere / Boards / Work items

Search

1 of 19

Recently updated

Back to Work Items

BUG 33

33 Bug found in settings

Assign people

0 Comments

Add Tag

Save

Follow

Details

Updated by Aniruth S V 14m ago

Severity

4 - Low

Activity

Effort (Hours)

Original Estimate

Remaining

Completed

Add link

Link a GitHub commit, pull request or branch to see the status of your development. You can also create a branch to get started. [Learn more](#)

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

29 Testing Updated 42m ago Active

Tested By

30 Bug Finding Updated 20m ago Design

System Info

Found in Build

Integrated in Build

Browser - Width	1280
Browser - User agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64; AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36
Operating system - Name	Windows NT 10.0; Win64; x64
Operating system - Architecture	x64_64
Operating system - Processor model	AMD Ryzen 7 7700X 8-Core Processor
Operating system - Number of processors	16
Memory - Available	232160000
Memory - Capacity	33443108736
Display - Pixels per inch (X axis)	144
Display - Pixels per inch (Y axis)	144
Display - Device pixel ratio	1.5

Discussion

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

switch to Markdown editor

TextSphereMain / TextSphere / Boards / Work items

Search

1 of 19

Recently updated

Back to Work Items

BUG 33

33 Bug found in settings

Assign people

0 Comments

Add Tag

Save

Follow

Details

Updated by Aniruth S V 14m ago

Severity

4 - Low

Activity

Effort (Hours)

Original Estimate

Remaining

Completed

Add link

Link a GitHub commit, pull request or branch to see the status of your development. You can also create a branch to get started. [Learn more](#)

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

29 Testing Updated 42m ago Active

Tested By

30 Bug Finding Updated 20m ago Design

System Info

Found in Build

Integrated in Build

Repro Steps

4/26/2025 1:00 PM Bug filed on "Bug Finding"

Test Configuration: Windows 10

System Info

Browser - Name	Google Chrome 125
Browser - Language	en-US
Browser - Platform	x64
Browser - Width	1280
Browser - User agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64; AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36
Operating system - Name	Windows NT 10.0; Win64; x64
Operating system - Architecture	x64_64
Operating system - Processor model	AMD Ryzen 7 7700X 8-Core Processor
Operating system - Number of processors	16
Memory - Available	232160000
Memory - Capacity	33443108736
Display - Pixels per inch (X axis)	144
Display - Pixels per inch (Y axis)	144
Display - Device pixel ratio	1.5

Planning

Assigned Reason

Story Points

Priority

3

Severity

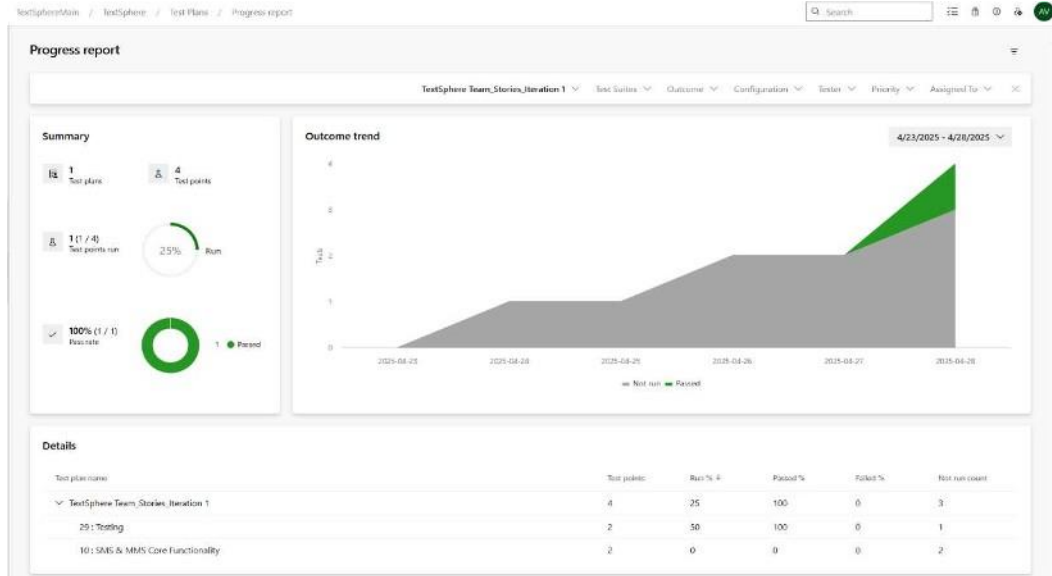
4 - Low

Activity

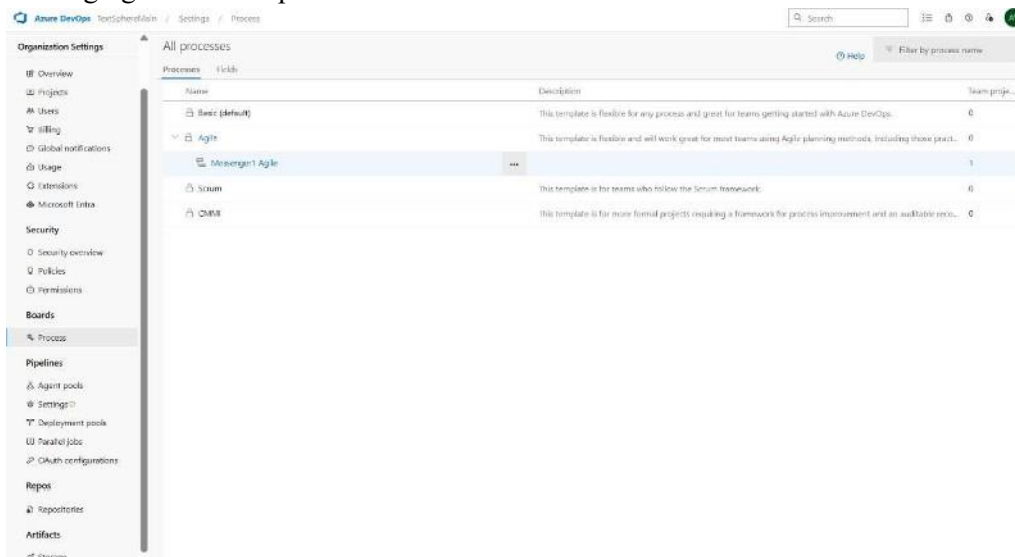
Deployment

Development

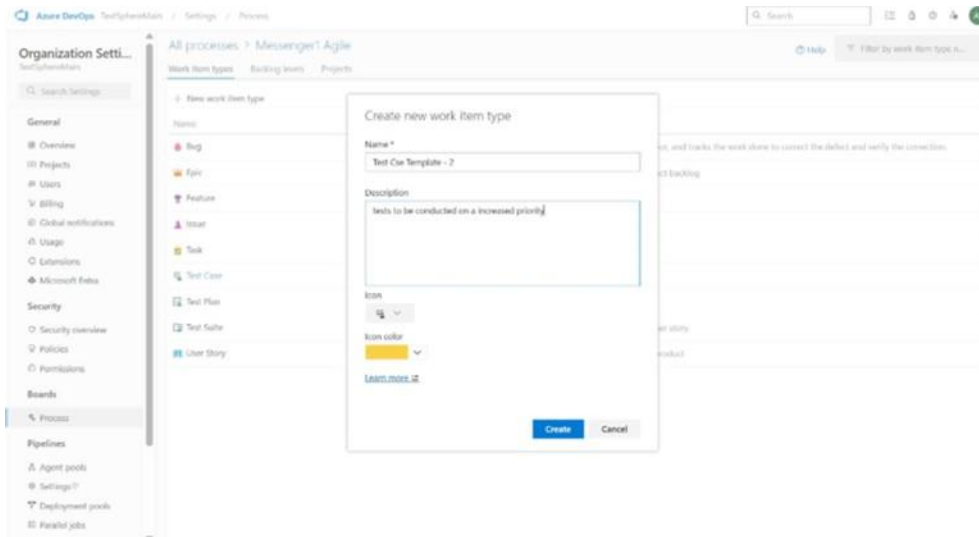
Progress report



6. Changing the test template



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

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 o Go to Create a resource -+ Search for "Azure Load Testing".

o Select Azure Load Testing and click Create.

3. Fill in the Configuration Details o Subscription: Choose your Azure subscription.

o Resource Group: Create new or select an existing one.

o Name: Provide a unique name (no special characters).

o Location: Choose the region for hosting the resource.

4. (Optional) Configure tags for categorization and billing.

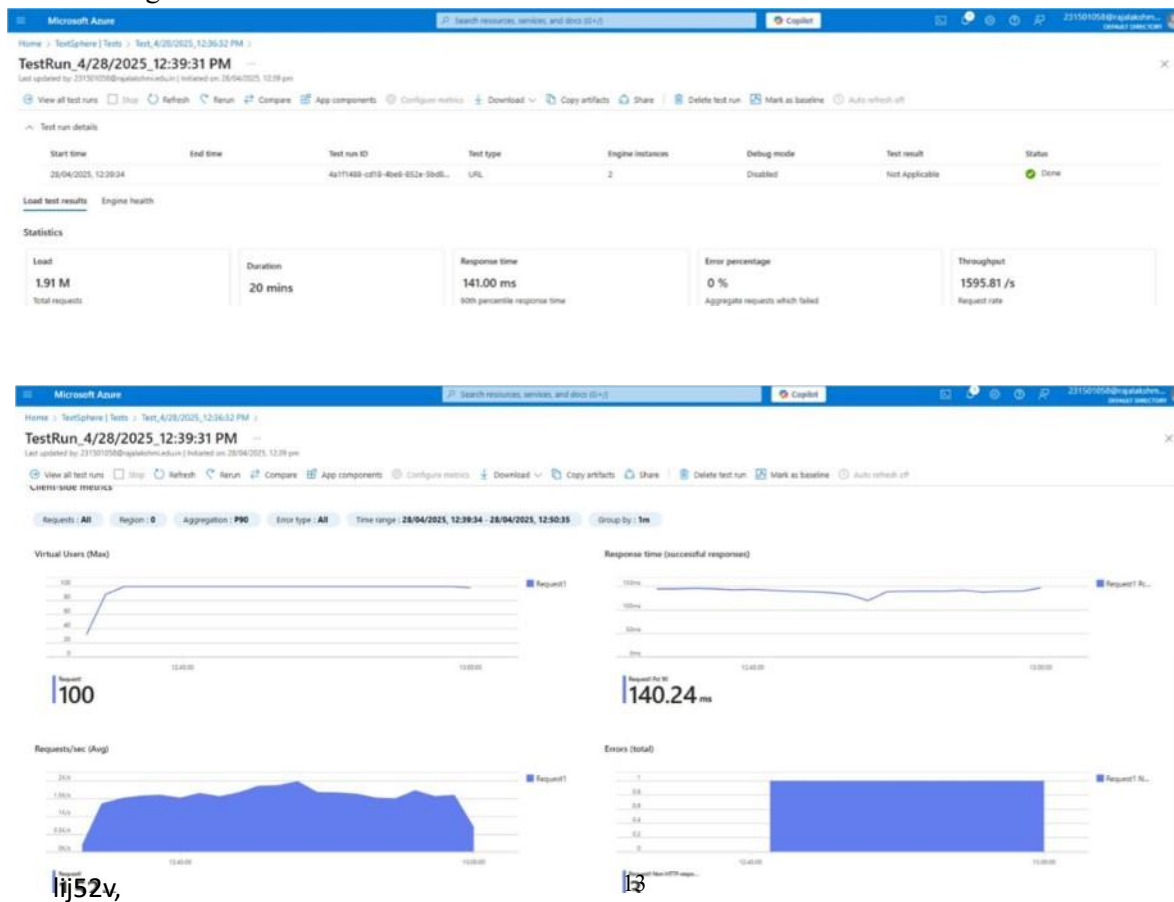
5. Click Review + Create, then Create.
6. Once deployment is complete, click Go to resource.

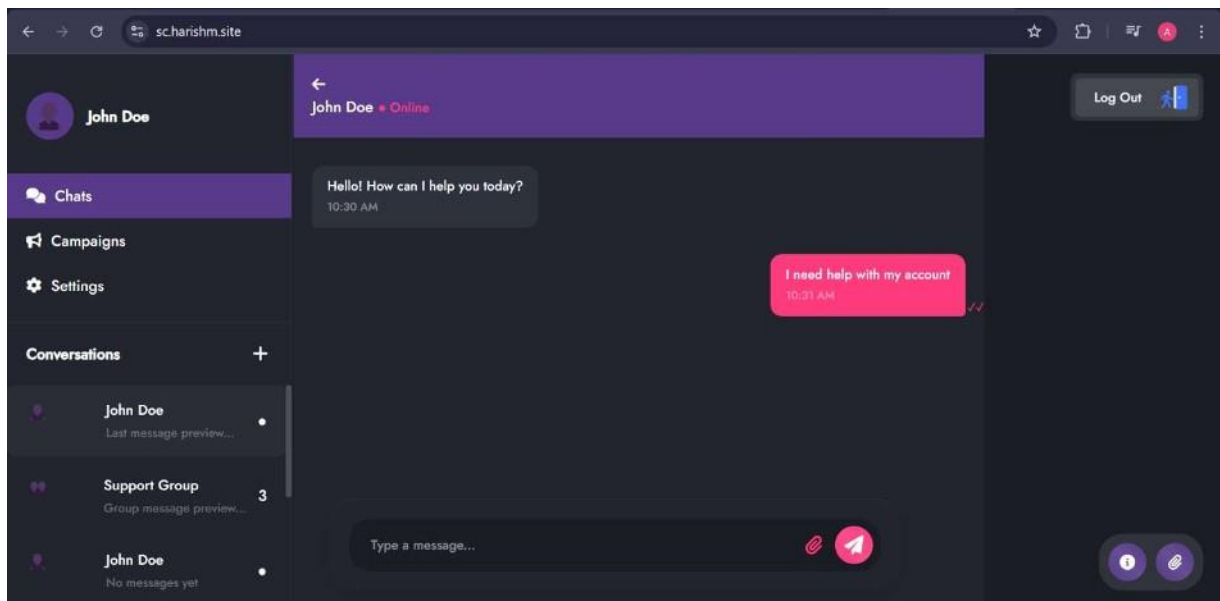
Steps to Create and Run a Load Test:

Once your resource is ready:

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

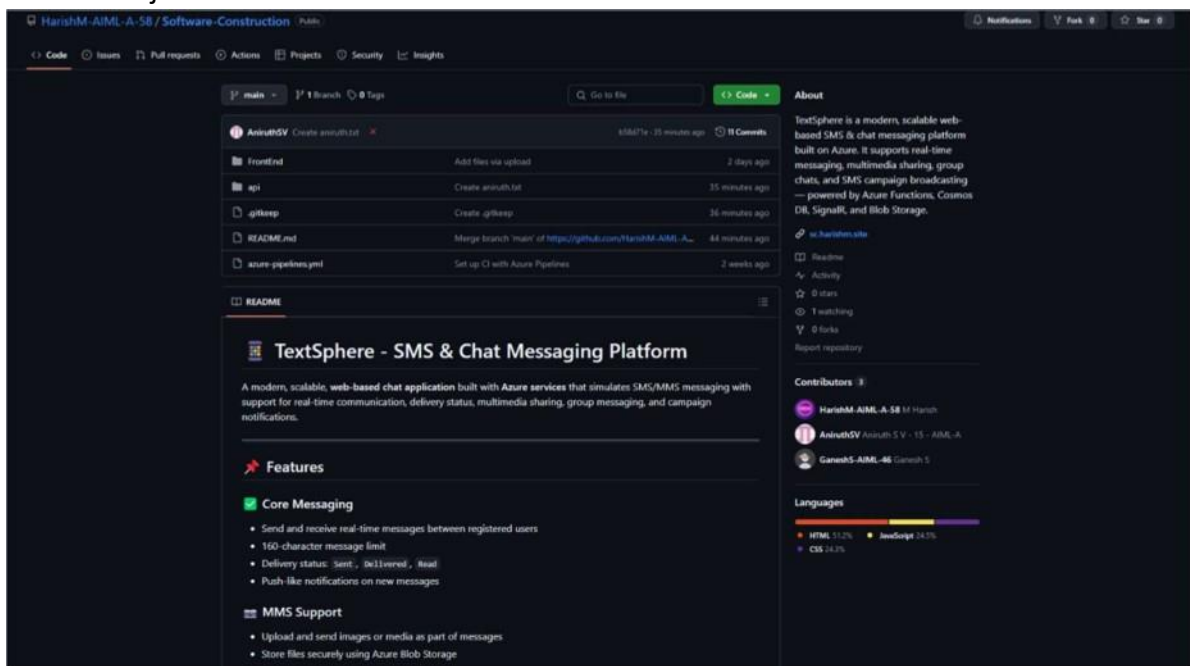
EXP NO: 10

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 SMS/MMS Sending 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.