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**Test Plan, Test Design Specifications and Test Cases**  
Version 1

**CENG 408**  
**Innovative System Design and Development II**

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# 1. INTRODUCTION

## 1.1 Version Control

| Version No | Description of Changes | Date           |
|------------|------------------------|----------------|
| 1.0        | First Version          | March 28, 2025 |

## 1.2 Overview

This document will be used to test the core functionalities of the application, mainly artificial intelligence (AI), database (DB), and graphical user interface (GUI) related functionalities.

## 1.3 Scope

This document consists of terminology, features to be tested, features not to be tested, item pass / fail criteria, and detailed test case descriptions in various formats.

## 1.4 Terminology

| Acronym  | Definition  |
|----------|---|
| AI       | Artificial Intelligence (AI) is a technology that allows computers and machines to replicate human intelligence.  |
| DB       | A database (DB) is a systematically organized collection of data stored electronically, which can include text, numbers, images, videos, and various other file types.  |
| GUI      | Graphical User Interface (GUI) is an interface that allows users to interact with electronic devices such as computers, laptops, tablets, and smartphones using graphical elements as per their requirements. |
| Firebase | Firebase is a set of services that help users to create backend components of an application like user authentication, data storage, sending notifications, serverless functions etc.                         |
| RPM      | Request per minutes   |
| N/A      | Not applicable  |
| TPM      | Token per minutes   |

## 2. FEATURES TO BE TESTED

This section lists and gives a brief description of all the major features to be tested. The major features are inspected individually in the following subsections.

### 2.1 Graphical User Interface (GUI)

In this project's test plan, we tested the GUI by examining individual objects such as buttons and text views. Each test case outlines its purpose, related SRS requirements, priority, estimated time, dependencies, and steps for setup, procedure, and cleanup to ensure comprehensive testing and clear documentation.

## 3. FEATURES NOT TO BE TESTED

### 3.1 Database (DB)

The database features, including Firebase and its related tools, will not be explicitly tested.

| Cloud Firestore |                |                 |                |                  |
|-----------------|----------------|-----------------|----------------|------------------|
| Stored data     | Network egress | Document writes | Document reads | Document deletes |
| 1 GiB total     | 10 GiB/month   | 20K writes/day  | 50K reads/day  | 20K deletes/day  |

Cloud Firestore usage limits for Spark Plan resource: <https://firebase.google.com/pricing>

| Cloud Storage |               |                   |                     |                              |
|---------------|---------------|-------------------|---------------------|------------------------------|
| GB stored     | GB downloaded | Upload operations | Download operations | Multiple buckets per project |
| 5 GB          | 1 GB/day      | 20K/day           | 50K/day             | N/A                          |

Cloud Storage usage limits for Spark Plan resource: <https://firebase.google.com/pricing>

| Authentication           |                               |                      |                                  |
|--------------------------|-------------------------------|----------------------|----------------------------------|
| Phone Auth - All regions | Other Authentication services | Monthly active users | Monthly active users - SAML/OIDC |
| N/A                      | Yes                           | 50k/month            | 50/month                         |

Authentication usage limits for Spark Plan resource: <https://firebase.google.com/pricing>

### 3.2 Artificial Intelligence (AI)

| Model Name | Model Version | Model Retirement Date | Content Filter | Capacity | Rate Limit (tokens per minute) |
|------------|---------------|-----------------------|----------------|----------|--------------------------------|
| gpt-4      | 0613          | Jun 6, 2025           | Default V2     | 1K TPM   | 1000 (RPM) = 6                 |
| dall-e-3   | 3.0           | Jun 30, 2025          | Default        | 1 CU     | N/A                            |

Used models table during Image & Story generation

| Category | User prompts (Input) | Model completions (Output) |
|----------|----------------------|----------------------------|
|----------|----------------------|----------------------------|

|           |        |        |
|-----------|--------|--------|
| Violence  | Medium | Medium |
| Hate      | Medium | Medium |
| Sexual    | Medium | Medium |
| Self-harm | Medium | Medium |

*Default/V2 Content filter restrictions while generating image & story*

## 4. ITEM PASS/FAIL CRITERIA

A test case is considered as passed if it performs its expected behavior (executes successfully), and it is considered as failed if the test case causes the application to throw an exception or causes it to crash completely.

### 4.1 Exit Criteria

To consider the testing phase as successful, the following conditions should be met:

- 100% of the test cases are executed
- 90% of the test cases passed
- All High Priority test cases passed

## 5. REFERENCES

- [1] <https://github.com/CankayaUniversity/ceng-407-408-2024-2025-Artificial-Intelligence-Based-Art-Gallery-Mobile-Application/wiki/Software-Requirements-Specification>
- [2] <https://github.com/CankayaUniversity/ceng-407-408-2024-2025-Artificial-Intelligence-Based-Art-Gallery-Mobile-Application/wiki/Software-Design-Description>

## **6. TEST DESIGN SPECIFICATIONS**

### **6.1 Graphical User Interface (GUI)**

#### **6.1.1 Sub features to be tested**

##### **6.1.1.1 Login Button (GUI.LG.BTN)**

User can log-in the user into the application.

##### **6.1.1.2 Forgot Password Button (GUI.FP.BTN)**

User can reset his/her password

##### **6.1.1.3 Sign Up (GUISU)**

User can create a new account

##### **6.1.1.4 Like an Artwork (GUI.LAA)**

User can like an artwork post

##### **6.1.1.5 Share an Artwork (GUI.SAA)**

User can share the artwork with third party application

##### **6.1.1.6 Filter Post (GUI.FP)**

User can filter (sort) the posts

##### **6.1.1.7 Comment (GUI.CMT)**

Allows the users to post comment(s) on artworks.

##### **6.1.1.8 Visit Another User's Profile (GUI.UVP)**

The user visits by clicking on the profile picture in the Posts or visits by clicking on the results.

##### **6.1.1.9 Follow Another User (GUI.FAU)**

Allows the users to follow another user.

#### **6.1.1.10 Homepage Navigation (GUI.HPN)**

Allows the users to navigate between the pages.

#### **6.1.1.11 Complete Achievements (GUI.CMPA)**

User can complete designated achievements by fulfilling the specified conditions

#### **6.1.1.12 More Options (GUI.MOROPT)**

Allow the users to change the settings of the application.

#### **6.1.1.13 Search Users (GUI.SRCH.PG.01)**

User can search users to search bar.

#### **6.1.1.14 Visit Another User's Profile (GUI.SRCH.PG.02)**

User can view another user's profile.

#### **6.1.1.15 Inspect Artwork (GUI.SRCH.PG.03)**

User views selected artwork in detail

#### **6.1.1.16 View Notifications and Visit Profiles (GUI.NOT.PG.01, GUI.NOT.PG.02)**

Users can view notifications about who liked, commented, and users who followed, etc. Additionally, they can navigate to other user's profiles

#### **6.1.1.17 View Challenges (GUI.CH.ACH.PG.01)**

Users view challenges and see completed or not completed challenges.

#### **6.1.1.18 View Achievements (GUI.CH.ACH.PG.02)**

Users view achievements and they can observe progress of those achievements.

#### **6.1.1.19 Change Profile Picture and Username (GUI.OP)**

Allows the user to change his/her profile picture and/or username.

#### 6.1.1.20 **See Followers' List (GUI.FLL)**

Allows the user to see his/her followers' list.

#### 6.1.1.21 **See Follows' List (GUI.FOL)**

Allows the user to see his/her follows' list.

#### 6.1.1.22 **Sign Out (GUI.SGNO)**

Allows the user to sign out of his/her account.

#### 6.1.1.23 **Change Password Button (GUI.CHNG.PWD.BTN)**

User can change the account password

#### 6.1.1.24 **Change Theme Button (GUI.CHNG.THM.BTN)**

User can change the theme

#### 6.1.1.25 **Search Artwork Button (GUI.SRCH.ART.BTN)**

User can search an artwork, or a user account based on a query.

#### 6.1.1.26 **Prompt Text Box (GUI.PRMT.TB)**

User can enter prompt to specify the image content. If the prompt exceeds the allowed character range stops to show the rest of the prompt.

#### 6.1.1.27 **Negative Prompt Text Box (GUI.NGT.PRMT.TB)**

User can enter negative prompt on to indicate that the image doesn't contains the given prompt properties.

#### 6.1.1.28 **Preset Styles Buttons (GUI.PSTL.BTN)**

User can choose any of the predefined style options. So that the image will be created based on that style

#### 6.1.1.29 **Add Story Switch (GUI.STRY.SWT)**

User can select switch to generate story which describes the generated image



#### **6.1.1.30 Generate Image Button (GUI.GEN.IMG.BTN)**

User should click the button to create the image and if story switch is enabled creates a story of that image

#### **6.1.1.31 Image View (GUI.IMG.VW)**

User must see an image related to the given prompt and other configuration options (negative prompt, style option)

#### **6.1.1.32 Download Image Button (GUI.DL.IMG.BTN)**

User can download the image showed in Image View on their local storage

#### **6.1.1.33 Story Content Text View (GUI.STRY.CNT.TW)**

User should observe the result of the image story text

#### **6.1.1.34 Share Radio Button (GUI.SHR.RB)**

Set the image shows property as public so that anyone can see the generated artwork or set private so that only followers can see the artwork.

#### **6.1.1.35 Tag Display Text View (GUI.TAG.DSPLY.TW)**

User can see the unique tag for that

#### **6.1.1.36 Share Button (GUI.SHR.BTN)**

User can share the artwork to the third-party applications.

#### **6.1.1.37 Send Button (GUI.SND.BTN)**

User can save the generated artwork to her/his profile.

#### **6.1.1.38 Image Generation Mode (GUI.IMG.GEN.SWT)**

User can select the Image Generation Mode switch to generate an image from a story generated according to his/her prompt.

### **6.1.2 Test Cases**

Here list all the related test cases for this feature

| TC ID      | Requirements | Priority | Scenario Description   |
|------------|--------------|----------|--|
| GUI.LG.01  | R1           | H        | The previously registered user logs into the application by entering the correct and valid email and password.                         |
| GUI.LG.02  | R1           | H        | The previously registered user logs into the application by entering the correct and valid email and incorrect or invalid password.    |
| GUI.LG.03  | R1           | H        | The previously registered user logs into the application by entering the incorrect or invalid email and correct and valid password.    |
| GUI.LG.04  | R1           | H        | The unregistered user tries to log in to the application by filling in the required fields.  |
| GUI.FP.01  | R2           | M        | Enter an email signed up in the application.   |
| GUI.FP.02  | R2           | M        | Enter an email that is not signed up in the app.   |
| GUI.SU.01  | R3           | H        | Enter a valid email and invalid password (it's not long enough, it's too long, it doesn't contain the different characters it should.) |
| GUI.SU.02  | R3           | H        | Enter a invalid email (not in email format) and valid password.  |
| GUI.SU.03  | R3           | H        | Enter username, including capital letters.   |
| GUI.SU.04  | R3           | H        | Enter a username that is already signed up with the app.   |
| GUI.SU.05  | R3           | H        | Enter an email that is already registered with the app.  |
| GUI.SU.06  | R3           | H        | Enter all input fields as valid.   |
| GUI.SU.07  | R3           | H        | Password and Confirm Password fields do not match  |
| GUI.LAA.01 | R4           | L        | Click on the like button of a post.  |
| GUI.LAA.02 | R4           | L        | Click on the like button of a post to remove the like.   |
| GUI.SAA.01 | R5           | L        | Click on the share button of a post the action is completed successfully   |

|                |         |   |   |
|----------------|---------|---|---|
| GUI.SAA.02     | R5      | L | You clicked on the share button of a post and the action was not completed successfully.  |
| GUI.FP.01      | R6      | L | Don't select one of the filter options.   |
| GUI.FP.02      | R6      | L | Select one of the filter options.   |
| GUI.CMT.01     | R7      | H | The user writes a comment without exceeding the character limit and clicks the comment button.  |
| GUI.CMT.02     | R7      | M | If the user tries to make an empty comment, it warns that there will be no empty comments.  |
| GUI.CMT.03     | R7      | M | If the user writes the comment and exits without clicking the button, the comment is not saved.   |
| GUI.CMT.04     | R7      | H | If the user's comment exceeds the 2000-character limit, it gives a warning message.   |
| GUI.UVP.01     | R8      | H | User visits by clicking on the profile picture in the posts   |
| GUI.UVP.02     | R8      | H | User visits by clicking on the search results.  |
| GUI.FAU.01     | R9      | H | If the user clicks the follow button once, they follow.   |
| GUI.FAU.02     | R9      | M | If the user clicks the follow button more than once, it changes according to the number of clicks. If the user clicks the follow button evenly, they follow the user. If the user clicks the follow button oddly, they follow the user. |
| GUI.HPN.01     | R10     | H | The user can go to other pages by clicking on the icons in the bottom and top bars.   |
| GUI.HPN.02     | R10     | H | If the user goes from one page to another and comes back, they will see the refreshed version, not the old version.   |
| GUI.CMPA       | R11     | H | The user's status on the assigned achievements is tracked and if they complete one, it appears as completed.  |
| GUI.MOROPT.01  | R12     | H | On this page, the user sees various settings and the sign-up section. When he clicks, he sets that setting.   |
| GUI.SRCH.PG.01 | R13     | H | The system allows the users to search by username or tag name of the artwork.   |
| GUI.SRCH.PG.02 | R8, R20 | M | The system lets the user click onto other users' profiles and navigates to their profile pages.   |

|                     |       |   |   |
|---------------------|-------|---|---|
| GUI.SRCH.PG.03      | R14   | M | The system lets the user click onto artworks and views artwork in detail. The systems enlarge the artwork and shows the number of likes, comments and who shared the artwork. |
| GUI.NOT.PG.01       | R15   | M | The system lets the user views the notifications on notification page.  |
| GUI.NOT.PG.02       | R8,13 | L | The system lets the user visit other people's profiles by clicking on their profile images.   |
| GUI.CH.ACH.PG.01    | R17   | H | The system lets the user to observe challenges, and user can see whether or not the challenges are completed.   |
| GUI.CH.ACH.PG.02    | R18   | H | The system lets the user to observe achievements and their current situation whether or not which ones are completed.   |
| GUI.CHNG.PWD.BTN.01 | R25   | M | User can change the password with a valid new password  |
| GUI.CHNG.PWD.BTN.02 | R25   | M | User can't change the password with a not valid new password  |
| GUI.CHNG.THM.BTN    | R26   | L | User can switch the existing theme between light or dark modes  |
| GUI.SRCH.ART.BTN.01 | R32   | H | User can search a user account  |
| GUI.OP.01           | R23   | M | The user sees his/her own artworks.   |
| GUI.OP.02           | R20   | M | The system lets the user update his/her profile picture from the device's gallery.  |
| GUI.OP.03           | R20   | M | The system lets the user update his/her username.   |
| GUI.FLL             | R21   | M | The system lets the user see his/her followers' list.   |
| GUI.FOL             | R21   | M | The system lets the user see his/her follows' list.   |
| GUI.SGNO            | R24   | M | The user logs out of his/her account.   |
| GUI.CHAL.01         | R19   | L | The system lets the user to see his/her challenge progress.   |
| GUI.CHAL.02         | R19   | L | The system updates the user's challenge progress.   |
| GUI.CHAL.03         | R19   | L | The system periodically updates the current challenges.   |
| GUI.COM             | R22   | M | The system lets the user see the comments that are made on a related artwork.   |
| GUI.SRCH.ART.BTN.02 | R32   | H | User can search an artwork  |
| GUI.PRMT.TB.01      | R28   | M | Enter a valid prompt do not exceed 300 characters   |
| GUI.PRMT.TB.02      | R28   | M | Enter a valid prompt exceeds 300 characters   |

|                    |         |   |  |
|--------------------|---------|---|--|
| GUI.PRMT.TB.03     | R28     | M | Do not enter any prompt  |
| GUI.NGT.PRMT.TB.01 | R28     | L | Enter a valid prompt do not exceed 300 ccharacters   |
| GUI.NGT.PRMT.TB.02 | R28     | L | Enter a valid prompt exceeds 300 characters  |
| GUI.NGT.PRMT.TB.03 | R28     | L | Do not enter any prompt  |
| GUI.PSTL.BTN.01    | R28     | L | Choose any of the style option   |
| GUI.PSTL.BTN.02    | R28     | L | Don't choose any style option  |
| GUI.STRY.SWT.01    | R29     | L | Enable switch to add story   |
| GUI.STRY.SWT.02    | R29     | L | Disable switch to not add story  |
| GUI.GEN.IMG.BTN    | R28     | L | Click generate button to create an image and optional a stroy based on story switch status |
| GUI.IMG.VW.01      | R28     | M | Shows the generated image picture  |
| GUI.IMG.VW.02      | R28     | M | Don't show the generated image picture   |
| GUI.DL.IMG.BTN     | R30     | L | Download the image showed on Image View  |
| GUI.STRY.CNT.TW.01 | R29     | H | Shows the generated image story  |
| GUI.STRY.CNT.TW.02 | R29     | H | Don't show the generated image story   |
| GUI.SHR.RB.01      | R28,R29 | M | Shows the artwork to all users   |
| GUI.SHR.RB.02      | R28,R29 | M | Shows the artwork to only followers  |
| GUI.TAG.DSPLY.TW   | R28,R29 | L | Shows the artwork unique tag generated by the system                                       |
| GUI.SHR.BTN        | R28,R29 | L | Shares the artwork generated   |

|                 |              |   |   |
|-----------------|--------------|---|---|
| GUI.SND.BTN     | R28,R29, R31 | L | Save the artwork both to his/her profile page and the firebase.       |
| GUI.IMG.GEN.SWT | R33          | H | Generate an image from a story generated according to his/her prompt. |

## 7. Detailed Test Cases

### 7.1 GUI

#### 7.1.1 GUI.LG.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.LG.01   |
| <b>Purpose</b>               | Logs the user into the application.   |
| <b>Requirements</b>          | R1  |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 10 seconds.   |
| <b>Dependency</b>            | The application must open successfully and display the Login page.<br>The user must already have an account in the application. |
| <b>Setup</b>                 | Wait for Firebase to find and match the user.   |
| <b>Procedure</b>             | [A01] Go to Login page.   |
|                              | [A02] Fill in the email and password input fields correctly.  |
|                              | [V01] Observe that the application has successfully logged in and redirected to the Home page.                                  |
| <b>Cleanup</b>               | -   |

#### 7.1.2 GUI.LG.02

|              |           |
|--------------|-----------|
| <b>TC_ID</b> | GUI.LG.02 |
|--------------|-----------|

|                              |   |
|------------------------------|---|
| <b>Purpose</b>               | Blocking login with wrong password  |
| <b>Requirements</b>          | R1  |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 10 seconds.   |
| <b>Dependency</b>            | The application must open successfully and display the Login page.<br>The user must already have an account in the application. |
| <b>Setup</b>                 | Wait for Firebase to find and match the user.   |
| <b>Procedure</b>             | [A01] Go to Login page.   |
|                              | [A02] Fill in the email field correctly and password field incorrectly.   |
|                              | [V01] Observe that the app shows the 'email or password is incorrect' pop-up message.   |
| <b>Cleanup</b>               | -   |

### 7.1.3 GUI.LG.03

|                              |                                 |
|------------------------------|---------------------------------|
| <b>TC_ID</b>                 | GUI.LG.03                       |
| <b>Purpose</b>               | Blocking login with wrong email |
| <b>Requirements</b>          | R1                              |
| <b>Priority</b>              | High                            |
| <b>Estimated Time Needed</b> | 10 seconds.                     |

|                   |   |
|-------------------|---|
| <b>Dependency</b> | The application must open successfully and display the Login page.<br>The user must already have an account in the application. |
| <b>Setup</b>      | Wait for Firebase to find and match the user.   |
| <b>Procedure</b>  | [A01] Go to Login page.   |
|                   | [A02] Fill in the email field incorrectly and password field correctly.   |
|                   | [V01] Observe that the app shows the 'email or password is incorrect' pop-up message.   |
| <b>Cleanup</b>    | -   |

#### 7.1.4 GUI.LG.04

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.LG.04  |
| <b>Purpose</b>               | Notifying unregistered users.  |
| <b>Requirements</b>          | R1   |
| <b>Priority</b>              | High   |
| <b>Estimated Time Needed</b> | 10 seconds.  |
| <b>Dependency</b>            | The application must open successfully and display the Login page.                     |
| <b>Setup</b>                 | Wait for Firebase to find and match the user.  |
| <b>Procedure</b>             | [A01] Go to Login page.  |
|                              | [A02] Fill in the required fields with an email that is not previously registered.     |
|                              | [V01] Observe that the app shows a pop-up message saying 'no such user is registered'. |
| <b>Cleanup</b>               | -  |



### 7.1.5 GUI.FP.01

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.FP.01  |
| <b>Purpose</b>               | Users can change their passwords if they forget them.  |
| <b>Requirements</b>          | R2   |
| <b>Priority</b>              | Medium   |
| <b>Estimated Time Needed</b> | 1 minute.  |
| <b>Dependency</b>            | <p>The application must open successfully and display the Login page.</p> <p>The user must already have an account in the application.</p> <p>In order to change the password, the Firebase database's mail sending service must be running.</p> |
| <b>Setup</b>                 | <p>Wait for Firebase to find and match the user.</p> <p>Wait for Firebase to send email.</p>   |
| <b>Procedure</b>             | [A01] Go to Login page.  |
|                              | [A02] Click on the Forgot Password button  |
|                              | [V01] Observe that the application redirects to the Forgot Password page.  |
|                              | [A03] Enter an email registered with the application into the Email input field.   |
|                              | [V02] Observe the pop-up message regarding the mail being sent.  |
|                              | [A04] Go to your email and click on the link you received.   |
|                              | [V03] Observe that the web page opens with the fields required to set a new password.  |
|                              | [A05] Fill in the required fields to set your new password and confirm it.   |

|                |   |
|----------------|---|
|                | [V04] Observe the pop-up message Your password has been changed successfully. |
|                | [A06] Go back to the app and log in with your new password.                   |
|                | [V05] Go back to the app and log in with your new password.                   |
| <b>Cleanup</b> | -   |

### 7.1.6 GUI.FP.02

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.FP.02  |
| <b>Purpose</b>               | Notification that an unregistered user cannot attempt to change their password.            |
| <b>Requirements</b>          | R2   |
| <b>Priority</b>              | Medium   |
| <b>Estimated Time Needed</b> | 30 seconds.  |
| <b>Dependency</b>            | The application must open successfully and display the Login page.                         |
| <b>Setup</b>                 | Wait for Firebase to find and match the user.  |
| <b>Procedure</b>             | [A01] Go to Login page.  |
|                              | [A02] Click on the Forgot Password button  |
|                              | [V01] Observe that the application redirects to the Forgot Password page.                  |
|                              | [A03] Enter an email that is not registered with the application in the Email input field. |
|                              | [V02] Observe the pop-up message "A user is not registered with this email address."       |

|                |   |
|----------------|---|
| <b>Cleanup</b> | - |
|----------------|---|

### 7.1.7 GUI.SU.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.SU.01   |
| <b>Purpose</b>               | Blocking attempts to register with incorrect password format  |
| <b>Requirements</b>          | R3  |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 10 seconds.   |
| <b>Dependency</b>            | The application must open successfully and display the Sign Up page.  |
| <b>Setup</b>                 | Collect the username, name, surname, email, password and confirm password.  |
| <b>Procedure</b>             | [A01] Go to Sign Up page.   |
|                              | [A02] Fill in the required input fields.  |
|                              | [A03] Fill in the password input field in the wrong format (Ex. Less than 6 characters) and click the sign up button. |
|                              | [V01] Observe the pop-up message regarding the incorrect password format.   |
| <b>Cleanup</b>               | -   |

### 7.1.8 GUI.SU.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.SU.02   |
| <b>Purpose</b>               | Blocking attempts to register with invalid email format                               |
| <b>Requirements</b>          | R3  |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 10 seconds.   |
| <b>Dependency</b>            | The application must open successfully and display the Sign Up page.                  |
| <b>Setup</b>                 | Collect the username, name, surname, email, password and confirm password.            |
| <b>Procedure</b>             | [A01] Go to Sign Up page.   |
|                              | [A02] Fill in the required input fields.  |
|                              | [A03] Fill in the email input field in the wrong format and click the sign up button. |
|                              | [V01] Observe the pop-up message regarding the invalid email format.                  |
| <b>Cleanup</b>               | -   |

### 7.1.9 GUI.SU.03

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.SU.03  |
| <b>Purpose</b>               | Blocking attempts to register with incorrect username format |
| <b>Requirements</b>          | R3   |
| <b>Priority</b>              | High   |
| <b>Estimated Time Needed</b> | 10 seconds.  |

|                   |  |
|-------------------|--|
| <b>Dependency</b> | The application must open successfully and display the Sign Up page.   |
| <b>Setup</b>      | Collect the username, name, surname, email, password and confirm password.   |
| <b>Procedure</b>  | [A01] Go to Sign Up page.  |
|                   | [A02] Fill in the required input fields.   |
|                   | [A03] Fill in the username input field in the wrong format (including uppercase letters) and click the sign up button. |
|                   | [V01] Observe the pop-up message regarding the incorrect username format.  |
| <b>Cleanup</b>    | -  |

#### 7.1.10 GUI.SU.04

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.SU.04  |
| <b>Purpose</b>               | Preventing registration with a username that is already registered to the application.   |
| <b>Requirements</b>          | R3   |
| <b>Priority</b>              | High   |
| <b>Estimated Time Needed</b> | 10 seconds.  |
| <b>Dependency</b>            | The application must open successfully and display the Sign Up page.   |
| <b>Setup</b>                 | Collect the username, name, surname, email, password and confirm password.   |
| <b>Procedure</b>             | [A01] Go to Sign Up page.  |
|                              | [A02] Fill in the required input fields.   |
|                              | [A03] Enter a username that is already registered to the application in the username input field and click the sign up button. |

|                |  |
|----------------|--|
|                | [V01] Observe the pop-up message that such a username is already in use. |
| <b>Cleanup</b> | -  |

#### 7.1.11 GUI.SU.05

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.SU.05   |
| <b>Purpose</b>               | Preventing registration with a email that is already registered to the application.                                     |
| <b>Requirements</b>          | R3  |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 10 seconds.   |
| <b>Dependency</b>            | The application must open successfully and display the Sign Up page.  |
| <b>Setup</b>                 | Collect the username, name, surname, email, password and confirm password.  |
| <b>Procedure</b>             | [A01] Go to Sign Up page.   |
|                              | [A02] Fill in the required input fields.  |
|                              | [A03] Enter a email that is already registered to the application in the email input field and click the sign u button. |
|                              | [V01] Observe the pop-up message that such a email is already registered.   |
| <b>Cleanup</b>               | -   |

#### 7.1.12 GUI.SU.06

|                |  |
|----------------|--|
| <b>TC_ID</b>   | GUI.SU.06                                  |
| <b>Purpose</b> | New users can register to the application. |

|                              |  |
|------------------------------|--|
| <b>Requirements</b>          | R3   |
| <b>Priority</b>              | High   |
| <b>Estimated Time Needed</b> | 10 seconds.  |
| <b>Dependency</b>            | The application must open successfully and display the Sign Up page.                                       |
| <b>Setup</b>                 | Collect the username, name, surname, email, password and confirm password.                                 |
| <b>Procedure</b>             | [A01] Go to Sign Up page.  |
|                              | [A02] Fill in the required input fields correctly, valid and click the sign-up button.                     |
|                              | [V01] Observe the pop-up message "Signed up successfully" and the application redirects to the Login page. |
| <b>Cleanup</b>               | -  |

#### 7.1.13 GUI.SU.07

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.SU.07  |
| <b>Purpose</b>               | Warning the user if the Password and Confirm Password fields do not match. |
| <b>Requirements</b>          | R3   |
| <b>Priority</b>              | High   |
| <b>Estimated Time Needed</b> | 10 seconds.  |
| <b>Dependency</b>            | The application must open successfully and display the Sign Up page.       |
| <b>Setup</b>                 | Collect the username, name, surname, email, password and confirm password. |
| <b>Procedure</b>             | [A01] Go to Sign Up page.  |

|                |   |
|----------------|---|
|                | [A02] Fill in the required input fields.  |
|                | [A03] Enter different entries in the Password and Confirm Password fields and click the sign up button.           |
|                | [V01] Observe that the application displays the pop-up message Password and Confirm Password fields do not match. |
| <b>Cleanup</b> | -   |

#### 7.1.14 GUI.LAA.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.LAA.01  |
| <b>Purpose</b>               | Like a post   |
| <b>Requirements</b>          | R4  |
| <b>Priority</b>              | Low   |
| <b>Estimated Time Needed</b> | 3 seconds.  |
| <b>Dependency</b>            | The application must open successfully and display the Home page.                     |
| <b>Setup</b>                 | Loads the posts.  |
| <b>Procedure</b>             | [A01] Go to Home page.  |
|                              | [A02] Click the heart-shaped like button on a post that hasn't been liked before.     |
|                              | [V01] Observe that the heart-shaped button is red.                                    |
|                              | [A03] Go to my profile page and click on the heart button under your profile picture. |
|                              | [V02] Observe that the post you just liked is displayed here.                         |
| <b>Cleanup</b>               | -   |



#### 7.1.15 GUI.LAA.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.LAA.02  |
| <b>Purpose</b>               | Unlike a post   |
| <b>Requirements</b>          | R4  |
| <b>Priority</b>              | Low   |
| <b>Estimated Time Needed</b> | 3 seconds.  |
| <b>Dependency</b>            | The application must open successfully and display the Home page.   |
| <b>Setup</b>                 | Loads the posts.  |
| <b>Procedure</b>             | [A01] Go to Home page.  |
|                              | [A02] Click on the heart button on a post that has already been liked (where the heart shaped button is red). |
|                              | [V01] Observe that the heart-shaped button is white.  |

#### 7.1.16 GUI.SAA.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.SAA.01  |
| <b>Purpose</b>               | Share a post succesfully.   |
| <b>Requirements</b>          | R5  |
| <b>Priority</b>              | Low   |
| <b>Estimated Time Needed</b> | 1 minutes.  |
| <b>Dependency</b>            | The application must open successfully and display the Home page.<br>The external service to be shared must be running. |
| <b>Setup</b>                 | Loads the posts.  |
| <b>Procedure</b>             | [A01] Go to Home page.  |
|                              | [A02] Click on the share button of the post you want to share.  |
|                              | [A03] Select one of the third-party services that appear on the screen.   |
|                              | [A04] Fulfill the requirements of the third-party service in order for sharing to take place                            |
|                              | [V01] Observe the post you shared on the service you shared it from.  |
| <b>Cleanup</b>               | -   |

### 7.1.17 GUI.SAA.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.SAA.02  |
| <b>Purpose</b>               | Notifying the user if sharing the post fails.   |
| <b>Requirements</b>          | R5  |
| <b>Priority</b>              | Low   |
| <b>Estimated Time Needed</b> | 1 minutes.  |
| <b>Dependency</b>            | The application must open successfully and display the Home page.   |
| <b>Setup</b>                 | Loads the posts.  |
| <b>Procedure</b>             | [A01] Go to Home page.  |
|                              | [A02] Click on the share button of the post you want to share.  |
|                              | [A03] Select one of the third-party services that appear on the screen.   |
|                              | [V01] Observe the pop-up message in the app that says Something went wrong and sharing couldn't be done if an error occurs. |
| <b>Cleanup</b>               | -   |

### 7.1.18 GUI.FP.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.FP.01   |
| <b>Purpose</b>               | Default filter option   |
| <b>Requirements</b>          | R6  |
| <b>Priority</b>              | Low   |
| <b>Estimated Time Needed</b> | 3 seconds.  |
| <b>Dependency</b>            | The application must open successfully and display the Home and Search page.          |
| <b>Setup</b>                 | Loads the posts.  |
| <b>Procedure</b>             | [A01] Go to Home page.  |
|                              | [V01] Observe that the posts are sorted from the last uploaded to the first uploaded. |
|                              | [A02] Go to Search page.  |
|                              | [V02] Observe that the posts are sorted from the last uploaded to the first uploaded. |
| <b>Cleanup</b>               | -   |

### 7.1.19 GUI.FP.02

|                     |                         |
|---------------------|-------------------------|
| <b>TC_ID</b>        | GUI.FP.02               |
| <b>Purpose</b>      | Choose a filter option. |
| <b>Requirements</b> | R6                      |
| <b>Priority</b>     | Low                     |

|                              |  |
|------------------------------|--|
| <b>Estimated Time Needed</b> | 3 seconds.   |
| <b>Dependency</b>            | The application must open successfully and display the Home and Search page.           |
| <b>Setup</b>                 | Loads the posts.   |
| <b>Procedure</b>             | [A01] Go to Home page.   |
|                              | [A02] Select a filter option from the Filter combobox.                                 |
|                              | [V01] Observe that the posts are reloaded and sorted according to the selected filter. |
|                              | [A03] Go to Search page.   |
|                              | [A04] Select a filter option from the Filter combobox.                                 |
|                              | [V02] Observe that the posts are reloaded and sorted according to the selected filter. |
| <b>Cleanup</b>               | -  |

#### 7.1.20 GUI.CMT.01

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.CMT.01   |
| <b>Purpose</b>               | The user writes a comment without exceeding the character limit and clicks the comment button. |
| <b>Requirements</b>          | R7   |
| <b>Priority</b>              | High   |
| <b>Estimated Time Needed</b> | 60 seconds.  |
| <b>Dependency</b>            | User must be logged in.  |
| <b>Setup</b>                 | -  |
| <b>Procedure</b>             | [A01] The user goes to the home page.  |

|                |  |
|----------------|--|
|                | [A02] He writes in the comment section of the relevant post. |
|                | [A03] The user clicks the comment button.                    |
|                | [V01] The comment is saved successfully.                     |
| <b>Cleanup</b> | -  |

#### 7.1.21 GUI.CMT.02

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.CMT.02   |
| <b>Purpose</b>               | If the user tries to make an empty comment, it warns that there will be no empty comments. |
| <b>Requirements</b>          | R7   |
| <b>Priority</b>              | Medium   |
| <b>Estimated Time Needed</b> | 60 seconds.  |
| <b>Dependency</b>            | User must be logged in.  |
| <b>Setup</b>                 | -  |
| <b>Procedure</b>             | [A01] The user goes to the home page.  |
|                              | [A02] He clicks the comment button without commenting on the relevant post.                |
|                              | [V01] He receives a warning message that empty comments cannot be made.                    |
| <b>Cleanup</b>               | -  |

#### 7.1.22 GUI.CMT.03

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.CMT.03  |
| <b>Purpose</b>               | If the user writes the comment and exits without clicking the button, the comment is not saved. |
| <b>Requirements</b>          | R7  |
| <b>Priority</b>              | Medium  |
| <b>Estimated Time Needed</b> | 60 seconds.   |
| <b>Dependency</b>            | User must be logged in.   |
| <b>Setup</b>                 | -   |
| <b>Procedure</b>             | [A01] User goes to home page.   |
|                              | [A02] Writes in the comment section of the relevant post.                                       |
|                              | [V01] User does not click the comment button.   |
|                              | Comment is not saved.   |
| <b>Cleanup</b>               | -   |

#### 7.1.23 GUI.CMT.04

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.CMT.04  |
| <b>Purpose</b>               | If the user's comment exceeds the 2000-character limit, it gives a warning message. |
| <b>Requirements</b>          | R7  |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 60 seconds.   |

|                   |  |
|-------------------|--|
| <b>Dependency</b> | User must be logged in.  |
| <b>Setup</b>      | -  |
| <b>Procedure</b>  | [A01] The user goes to the home page.  |
|                   | [A02] Writes in the comment section of the relevant post.                        |
|                   | [A03] The user clicks the comment button.  |
|                   | [V01] If the comment has more than 2000 characters, they will receive a warning. |
| <b>Cleanup</b>    | -  |



#### 7.1.24 GUI.UVP.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.UVP.01  |
| <b>Purpose</b>               | User visits by clicking on the profile picture in the posts |
| <b>Requirements</b>          | R8  |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 30 seconds.   |
| <b>Dependency</b>            | User must be logged in.                                     |
| <b>Setup</b>                 | -   |
| <b>Procedure</b>             | [A01] The user clicks on the profile picture in the post.   |
|                              | [V01] The user is directed to the relevant account.         |
| <b>Cleanup</b>               | -   |

#### 7.1.25 GUI.UVP.02

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.UVP.02                                     |
| <b>Purpose</b>               | User visits by clicking on the search results. |
| <b>Requirements</b>          | R8   |
| <b>Priority</b>              | High   |
| <b>Estimated Time Needed</b> | 30 seconds.                                    |

|                   |   |
|-------------------|---|
| <b>Dependency</b> | User must be logged in.                         |
| <b>Setup</b>      | -   |
| <b>Procedure</b>  | [A01] User clicks on one of the search results  |
|                   | [V01] User is directed to the relevant account. |
| <b>Cleanup</b>    | -   |

#### 7.1.26 GUI.FAU.01

|                       |   |
|-----------------------|---|
| <b>TC_ID</b>          | GUI.FAU.01  |
| <b>Purpose</b>        | If the user clicks the follow button once, they follow.   |
| <b>Requirements</b>   | R9  |
| <b>Priority</b>       | High  |
| <b>Estimated Time</b> | 15 seconds.   |
| <b>Needed</b>         |   |
| <b>Dependency</b>     | The user must be connected to the internet.<br>The user must have visited another user's profile. |
| <b>Setup</b>          | -   |
| <b>Procedure</b>      | [A01] The user clicks the follow button.  |
|                       | [V01] The follow operation is successful.   |
| <b>Cleanup</b>        | -   |

#### 7.1.27 GUI.FAU.02

|                     |   |
|---------------------|---|
| <b>TC_ID</b>        | GUI.FAU.02  |
| <b>Purpose</b>      | If the user clicks the follow button more than once, it changes according to the number of clicks. If the user clicks the follow button evenly, they follow the user. If the user clicks the follow button oddly, they follow the user. |
| <b>Requirements</b> | R9  |

|                              |   |
|------------------------------|---|
| <b>Priority</b>              | Medium  |
| <b>Estimated Time Needed</b> | -   |
| <b>Dependency</b>            | [A01] The user must be connected to the internet.<br>[V01] The user must have visited another user's profile. |
| <b>Setup</b>                 | -   |
|                              | The user clicks the follow button repeatedly.   |
|                              | If the number of clicks is odd, it follows, if it is even, it does not follow.                                |
| <b>Cleanup</b>               | -   |

#### 7.1.28 GUI.HPN.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.HPN.01  |
| <b>Purpose</b>               | The user can go to other pages by clicking on the icons in the bottom and top bars. |
| <b>Requirements</b>          | R10   |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 5 seconds   |
| <b>Dependency</b>            | User must be logged in.   |
| <b>Setup</b>                 | -   |
| <b>Procedure</b>             | [A01] The user clicks on one of the icons in the top and bottom bars.               |

|                |  |
|----------------|--|
|                | [V01] The user is successfully redirected to the page related to the icon. |
| <b>Cleanup</b> | -  |

### 7.1.29 GUI.HPN.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.HPN.02  |
| <b>Purpose</b>               | If the user goes from one page to another and comes back, they will see the refreshed version, not the old version. |
| <b>Requirements</b>          | R10   |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 5 seconds   |
| <b>Dependency</b>            | User must be logged in.   |
| <b>Setup</b>                 | -   |
| <b>Procedure</b>             | [A01] The user clicks on one of the icons in the top and bottom bars.   |
|                              | [A02] The user is successfully redirected to the page related to the icon.  |
|                              | [V01] When the previous page returns, it cannot continue where it left off and sees a refreshed version.            |
| <b>Cleanup</b>               | -   |

### 7.1.30 GUI.CMPA

|              |          |
|--------------|----------|
| <b>TC_ID</b> | GUI.CMPA |
|--------------|----------|

|                              |  |
|------------------------------|--|
| <b>Purpose</b>               | The user's status on the assigned achievements is tracked and if they complete one, it appears as completed. |
| <b>Requirements</b>          | R11  |
| <b>Priority</b>              | High   |
| <b>Estimated Time Needed</b> | -  |
| <b>Dependency</b>            | The user must be connected to the internet.  |
| <b>Setup</b>                 | -  |
|                              | [A01] The user tracks the status of assigned achievements.   |
|                              | [V01] If the user completes an achievement, it appears as completed.   |
| <b>Cleanup</b>               | -  |

#### 7.1.31 GUI.MOROPT.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.MOROPT.01   |
| <b>Purpose</b>               | On this page, the user sees various settings and the sign up section. When he clicks, he sets that setting. |
| <b>Requirements</b>          | R12   |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | -   |
| <b>Dependency</b>            | User must be logged in.   |
| <b>Setup</b>                 | -   |

|                  |   |
|------------------|---|
| <b>Procedure</b> | [V01] The user can click on one of the buttons to change the relevant setting or exit with the sign out button. |
| <b>Cleanup</b>   | -   |

### 7.1.32 GUI.SRCH.PG.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.SRCH.PG.01  |
| <b>Purpose</b>               | Ensures that user can enter an input for searching users  |
| <b>Requirements</b>          | R13   |
| <b>Priority</b>              | H   |
| <b>Estimated Time Needed</b> | 2-3 seconds.  |
| <b>Dependency</b>            | The System must be able to connect to Database.<br>User must have a persistent internet connection. |
| <b>Setup</b>                 | Wait for the application queries users that matches entered input by the user from Database         |
| <b>Procedure</b>             | [A01] Go to search and Discovery page   |
|                              | [A02] Clicks the search box for searching   |
|                              | [A03] Type letters from the phone's keyboard  |
|                              | [V01] Observe Search results that matches with typed input  |
| <b>Cleanup</b>               | -   |

### 7.1.33 GUI.SRCH.PG.02

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.SRCH.PG.02   |
| <b>Purpose</b>               | Ensures that user can click onto other users' profiles and navigates to their profile pages.   |
| <b>Requirements</b>          | R8, R13  |
| <b>Priority</b>              | M  |
| <b>Estimated Time Needed</b> | 3 seconds.   |
| <b>Dependency</b>            | The System must be able to connect to Database.<br>User must have a persistent internet connection.<br>Test case GUI.SRCH.PG.01 must be passed |
| <b>Setup</b>                 | Wait for the application gets the id and profile fragment of the visited user.   |
| <b>Procedure</b>             | [A01] Go to search and Discovery page  |
|                              | [A02] Clicks the search box for searching  |
|                              | [A03] Type letters from the phone's keyboard   |
|                              | [A04] Clicks on one of the searched user profiles  |
|                              | [V01] Observe Search results that matches with typed input   |
|                              | [V02] Navigate to clicked user's profile page  |
| <b>Cleanup</b>               | -  |

### 7.1.34 GUI.SRCH.PG.03

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.SRCH.PG.03   |
| <b>Purpose</b>               | Ensures that user can click onto artworks and views artwork in detail. |
| <b>Requirements</b>          | R14  |
| <b>Priority</b>              | M  |
| <b>Estimated Time Needed</b> | 2 seconds.   |



|                   |   |
|-------------------|---|
| <b>Dependency</b> | The System must be able to connect to Database.<br>User must have a persistent internet connection.<br>Test case GUI.SRCH.PG.02 must be passed. |
| <b>Setup</b>      | -   |
| <b>Procedure</b>  | [A01] Go to search and Discovery page   |
|                   | [A02] Clicks the search box for searching   |
|                   | [A03] Type letters from the phone's keyboard  |
|                   | [A04] Clicks on one of the searched artwork's profile   |
|                   | [V01] Observe Search results that matches with typed input  |
|                   | [V02] Enlarges the clicked artwork and displays details of the artwork.   |
| <b>Cleanup</b>    | -   |

### 7.1.35 GUI.NOT.PG.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.NOT.PG.01   |
| <b>Purpose</b>               | Ensures that user can views the notifications on notification page  |
| <b>Requirements</b>          | R15   |
| <b>Priority</b>              | M   |
| <b>Estimated Time Needed</b> | 2 seconds.  |
| <b>Dependency</b>            | The System must be able to connect to Database.<br>User must have a persistent internet connection.<br>At least one of the other users must have taken an action that triggers notification activity. |
| <b>Setup</b>                 | Wait for the application loading notification information from the database   |
| <b>Procedure</b>             | [A01] Go to search and Notification Page  |
|                              | [V01] View the notifications through scrolling down the page to see more  |
| <b>Cleanup</b>               | -   |

### 7.1.36 GUI.NOT.PG.02

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.NOT.PG.02  |
| <b>Purpose</b>               | Ensures that user can visit other people's profiles  |
| <b>Requirements</b>          | R8,R13   |
| <b>Priority</b>              | L  |
| <b>Estimated Time Needed</b> | 1.5-2 seconds.   |
| <b>Dependency</b>            | The System must be able to connect to Database.<br>User must have a persistent internet connection.<br>At least one of the other users must have taken an action that triggers notification activity.<br>Test case GUI.SRCH.PG.03 must be passed |
| <b>Setup</b>                 | Wait for the application loading notification information from the database<br>Wait for the application gets the id and profile fragment of the visited user.  |
| <b>Procedure</b>             | [A01] Go to search and Notification Page   |
|                              | [A02] Clicks on one of the user profiles on notification page.   |
|                              | [V01] View the notifications through scrolling down the page to see more   |
|                              | [V02] Navigate to clicked user's profile page  |

|                |   |
|----------------|---|
| <b>Cleanup</b> | - |
|----------------|---|

### 7.1.37 GUI.CH.ACH.PG.01

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.CH.ACH.PG.01   |
| <b>Purpose</b>               | Ensures that user can view challenges  |
| <b>Requirements</b>          | R17  |
| <b>Priority</b>              | H  |
| <b>Estimated Time Needed</b> | 1-1.5 seconds.   |
| <b>Dependency</b>            | The System must be able to connect to Database.<br>User must have a persistent internet connection.<br>Challenges and achievements must be up to date. |
| <b>Setup</b>                 | Wait for the application loading challenges and achievements from database.<br>Wait for the application loading user completed challenges.             |
| <b>Procedure</b>             | [A01] Go to Challenges and Achievements page   |
|                              | [V01] View Challenges.   |
|                              | [V02] View completed challenges  |
| <b>Cleanup</b>               | -  |

### 7.1.38 GUI.CH.ACH.PG.02

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.CH.ACH.PG.02   |
| <b>Purpose</b>               | Ensures that user can view achievements  |
| <b>Requirements</b>          | R18  |
| <b>Priority</b>              | H  |
| <b>Estimated Time Needed</b> | 1-1.5 seconds.   |
| <b>Dependency</b>            | The System must be able to connect to Database.<br>User must have a persistent internet connection.<br>Challenges and achievements must be up to date. |

|                  |   |
|------------------|---|
| <b>Setup</b>     | Wait for the application loading challenges and achievements from database.<br>Wait for the application loading user's achievement information. |
| <b>Procedure</b> | [A01] Go to Challenges and Achievements page  |
|                  | [A01] Click on Achievements bar on the top  |
|                  | [V01] View achievements   |
| <b>Cleanup</b>   | -   |

#### 7.1.39 GUI.OP.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.OP.01   |
| <b>Purpose</b>               | The user can see his/her own artworks.                      |
| <b>Requirements</b>          | R20   |
| <b>Priority</b>              | Medium  |
| <b>Estimated Time Needed</b> | 30 Seconds  |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account. |
| <b>Setup</b>                 | Open the application.                                       |
| <b>Procedure</b>             | [A01] Click on the "My Profile" button.                     |
|                              | [V01] Observe the own artworks.                             |
| <b>Cleanup</b>               | -   |

#### 7.1.40 GUI.OP.02

|                     |  |
|---------------------|--|
| <b>TC_ID</b>        | GUI.OP.02  |
| <b>Purpose</b>      | Ensure that the user can update his/her profile picture via a compatible file from the device's gallery. |
| <b>Requirements</b> | R20  |
| <b>Priority</b>     | Medium   |

|                              |  |
|------------------------------|--|
| <b>Estimated Time Needed</b> | 45 Seconds   |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account.  |
| <b>Setup</b>                 | Open the application.  |
| <b>Procedure</b>             | [A01] Click on the “My Profile” button.                      |
|                              | [A02] Click on the “Pencil” button.                          |
|                              | [A03] Click on the “Edit Profile Picture” button.            |
|                              | [A04] Click on the “Choose from Gallery” button.             |
|                              | [A05] Select a picture from the device’s gallery.            |
|                              | [V01] Observe the new profile picture.                       |
| <b>Cleanup</b>               | Load the updated profile page by closing the current pop-ups |

#### 7.1.41 GUI.OP.04

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.OP.04  |
| <b>Purpose</b>               | Ensure that the user can update his/her username correctly.  |
| <b>Requirements</b>          | R20  |
| <b>Priority</b>              | Medium   |
| <b>Estimated Time Needed</b> | 45 Seconds   |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account.  |
| <b>Setup</b>                 | Open the application.  |
| <b>Procedure</b>             | [A01] Click on the “My Profile” button.                      |
|                              | [A02] Click on the “Pencil” button.                          |
|                              | [A03] Click on the “Edit Username” button.                   |
|                              | [A04] Enter a new username.                                  |
|                              | [A05] Click on “Change Username” button.                     |
|                              | [V01] Observe the updated username.                          |
| <b>Cleanup</b>               | Load the updated profile page by closing the current pop-ups |

#### 7.1.42 GUI.FLL

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.FLL  |
| <b>Purpose</b>               | Ensure that the user can see his/her followers' list properly. |
| <b>Requirements</b>          | R21  |
| <b>Priority</b>              | Medium   |
| <b>Estimated Time Needed</b> | 30 Seconds   |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account.    |
| <b>Setup</b>                 | Load the followers' list.                                      |
| <b>Procedure</b>             | [A01] Click on the "My Profile" button.                        |
|                              | [A02] Click on the "Followers" text.                           |
|                              | [V01] Observe the followers list.                              |
| <b>Cleanup</b>               | -  |

#### 7.1.43 GUI.FOL

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.FOL  |
| <b>Purpose</b>               | Ensure that the user can see his/her follows' list properly. |
| <b>Requirements</b>          | R21  |
| <b>Priority</b>              | Medium   |
| <b>Estimated Time Needed</b> | 30 Seconds   |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account.  |
| <b>Setup</b>                 | Load the followers' list.                                    |
| <b>Procedure</b>             | [A01] Click on the "My Profile" button.                      |
|                              | [A02] Click on the "Follows" text.                           |
|                              | [V01] Observe the follows list.                              |
| <b>Cleanup</b>               | -  |

#### 7.1.44 GUI.SGNO

|              |          |
|--------------|----------|
| <b>TC_ID</b> | GUI.SGNO |
|--------------|----------|

|                              |   |
|------------------------------|---|
| <b>Purpose</b>               | Ensure that the user can successfully logs out of his/her account.      |
| <b>Requirements</b>          | R24   |
| <b>Priority</b>              | Medium  |
| <b>Estimated Time Needed</b> | 1 Minute  |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account.             |
| <b>Setup</b>                 | The internet connection must be consistent.                             |
| <b>Procedure</b>             | [A01] Click on the “Hamburger” button.                                  |
|                              | [A02] Click on the “Sign Out” button.                                   |
|                              | [V01] Observe that application navigates to “Sign In” page.             |
| <b>Cleanup</b>               | If the remember me button was activated loads the username and password |

#### 7.1.45 GUI.CHAL.01

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.CHAL.01  |
| <b>Purpose</b>               | Ensure that the system correctly displays the user's challenge progress. |
| <b>Requirements</b>          | R19  |
| <b>Priority</b>              | Low  |
| <b>Estimated Time Needed</b> | 3 Minutes  |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account.              |
| <b>Setup</b>                 | The user completes a challenge.  |
| <b>Procedure</b>             | [A01] Click on the "Trophy" icon.  |
|                              | [V01] Observe the challenge progresses.                                  |
| <b>Cleanup</b>               | -  |

#### 7.1.46 GUI.CHAL.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.CHAL.02   |
| <b>Purpose</b>               | Ensure that the system correctly updates the user's challenge progress. |
| <b>Requirements</b>          | R19   |
| <b>Priority</b>              | Low   |
| <b>Estimated Time Needed</b> | 5 Minutes   |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account.             |
| <b>Setup</b>                 | The user makes a challenge progress.                                    |
| <b>Procedure</b>             | [A01] Click on the "Trophy" icon.                                       |
|                              | [A02] See the latest challenges.  |
|                              | [A03] Make progress for a desired challenge.                            |
|                              | [V01] Observe that the system updates the challenge progresses.         |
| <b>Cleanup</b>               | -   |

#### 7.1.47 GUI.CHAL.03



|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.CHAL.03   |
| <b>Purpose</b>               | Ensure that the system periodically updates the challenges. |
| <b>Requirements</b>          | R19   |
| <b>Priority</b>              | Low   |
| <b>Estimated Time Needed</b> | 10 Minutes  |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account. |
| <b>Setup</b>                 | Specified amount of time has passed.                        |
| <b>Procedure</b>             | [A01] Click on the “Trophy” icon.                           |
|                              | [V01] Observe the latest updated challenges.                |
| <b>Cleanup</b>               | -   |

#### 7.1.48 GUI.COM

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.COM   |
| <b>Purpose</b>               | Ensure that the user can see the comments made on a related artwork properly. |
| <b>Requirements</b>          | R22   |
| <b>Priority</b>              | Medium  |
| <b>Estimated Time Needed</b> | 45 Seconds  |
| <b>Dependency</b>            | The user must be successfully logged in to his/her account.                   |
| <b>Setup</b>                 | Load the comments.  |
| <b>Procedure</b>             | [A01] Click on the “My Profile”/ “My Feed”/ “Home Page” button.               |
|                              | [A02] Click on a comment bubble located below the desired artwork.            |
|                              | [V01] Observe the comments.   |
| <b>Cleanup</b>               | -   |

#### 7.1.49 GUI.SRCH.ART.BTN.01

|                |                       |
|----------------|-----------------------|
| <b>TC_ID</b>   | GUI.SRCH.ART.BTN.01   |
| <b>Purpose</b> | Search a user account |

|                              |   |
|------------------------------|---|
| <b>Requirements</b>          | R32   |
| <b>Priority</b>              | High.   |
| <b>Estimated Time Needed</b> | 10 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts. |
| <b>Setup</b>                 | Enter a username  |
| <b>Procedure</b>             | [A01] Go to discovery page.                                 |
|                              | [A02] Write a username.                                     |
|                              | [A03] Click the search bar or wait 5-10 seconds             |
|                              | [V01] Observe that there is a username account.             |
| <b>Cleanup</b>               | -   |

#### 7.1.50 GUI.SRCH.ART.BTN.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.SRCH.ART.BTN.02   |
| <b>Purpose</b>               | Search an artwork   |
| <b>Requirements</b>          | R32   |
| <b>Priority</b>              | High.   |
| <b>Estimated Time Needed</b> | 10 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts. |
| <b>Setup</b>                 | Enter an artwork's name                                     |
| <b>Procedure</b>             | [A01] Go to discovery page.                                 |
|                              | [A02] Write an artwork tag.                                 |
|                              | [A03] Click the search bar or wait 5-10 seconds             |
|                              | [V01] Observe that there is an artwork image.               |
| <b>Cleanup</b>               | -   |

#### 7.1.51 GUI.CHNG.PWD.BTN.01

|                |                     |
|----------------|---------------------|
| <b>TC_ID</b>   | GUI.CHNG.PWD.BTN.02 |
| <b>Purpose</b> | Set a new password  |

|                              |   |
|------------------------------|---|
| <b>Requirements</b>          | R25   |
| <b>Priority</b>              | Medium.   |
| <b>Estimated Time Needed</b> | 30 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.   |
| <b>Setup</b>                 | Enter a not valid prompt which contains at least 8 characters that contains at least one number, a special character and a big character. |
| <b>Procedure</b>             | [A01] Go to settings page.  |
|                              | [A02] Go to change password page.   |
|                              | [A03] Write a new valid password  |
|                              | [A04] Confirm the new password  |
|                              | [A05] Click the change password button  |
|                              | [V01] Observe that there is a success message.  |
| <b>Cleanup</b>               | Direct to the home page   |

#### 7.1.52 GUI.CHNG.PWD.BTN.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.CHNG.PWD.BTN.02   |
| <b>Purpose</b>               | Set a new password  |
| <b>Requirements</b>          | R25   |
| <b>Priority</b>              | Medium.   |
| <b>Estimated Time Needed</b> | 30 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.   |
| <b>Setup</b>                 | Enter a not valid prompt which not contains at least 8 characters that contains at least one number, a special character and a big character. |
| <b>Procedure</b>             | [A01] Go to settings page.  |
|                              | [A02] Go to change password page.   |
|                              | [A03] Write a new valid password  |
|                              | [A04] Confirm the new password  |
|                              | [A05] Click the change password button  |
|                              | [V01] Observe that there is an error message due to the invalid password enter.   |
| <b>Cleanup</b>               | Clean the text boxes  |

#### 7.1.53 GUI.CHNG.THM.BTN

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.CHNG.THM.BTN  |
| <b>Purpose</b>               | Switch app theme  |
| <b>Requirements</b>          | R26   |
| <b>Priority</b>              | Low.  |
| <b>Estimated Time Needed</b> | 20 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts. |
| <b>Setup</b>                 | -   |
| <b>Procedure</b>             | [A01] Go to settings page.                                  |
|                              | [A02] Click the change theme button                         |
|                              | [V01] Observe that the current theme changed.               |
| <b>Cleanup</b>               | -   |

#### 7.1.54 GUI.PRMT.TB.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.PRMT.TB.01  |
| <b>Purpose</b>               | Enter image prompt less or equal to 300 characters  |
| <b>Requirements</b>          | R28   |
| <b>Priority</b>              | Medium.   |
| <b>Estimated Time Needed</b> | 1 min.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.                                   |
| <b>Setup</b>                 | Set current prompt length as 0 characters and max prompt length as 300 in promptCounter Label |
| <b>Procedure</b>             | [A01] Go to generate artwork page.  |
|                              | [A02] Enter a valid prompt.   |
|                              | [V01] Observe that the given prompt is shown in the textbox panel                             |
| <b>Cleanup</b>               | -   |

#### 7.1.55 GUI.PRMT.TB.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.PRMT.TB.02  |
| <b>Purpose</b>               | Enter a image prompt greater than 300 chracters   |
| <b>Requirements</b>          | R28   |
| <b>Priority</b>              | Medium.   |
| <b>Estimated Time Needed</b> | 1 min.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.                                   |
| <b>Setup</b>                 | Set current prompt lenght as 0 characters and max prompt lenght as 300 in promptCounter Label |
| <b>Procedure</b>             | [A01] Go to generate artwork page.  |
|                              | [A02] Enter a valid prompt contains more than 300 characters.                                 |
|                              | [V01] Observe that the given prompt is stop after 300 characters                              |
| <b>Cleanup</b>               | -   |

#### 7.1.56 GUI.PRMT.TB.03

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.PRMT.TB.03   |
| <b>Purpose</b>               | Don't enter any prompt   |
| <b>Requirements</b>          | R28  |
| <b>Priority</b>              | Medium.  |
| <b>Estimated Time Needed</b> | 1 min.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.                                  |
| <b>Setup</b>                 | Set current prompt lenght as 0 chracters and max prompt lenght as 300 in promptCounter Label |
| <b>Procedure</b>             | [A01] Go to generate artwork page.   |
|                              | [A02] Don't enter any prompt.  |
|                              | [V01] Observe that the text box will be empty by indicates please enter a prompt.            |
| <b>Cleanup</b>               | -  |

#### 7.1.57 GUI.NGT.PRMT.TB.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.NGT.PRMT.TB.01  |
| <b>Purpose</b>               | Enter negative image prompt less or equal to 300 characters   |
| <b>Requirements</b>          | R28   |
| <b>Priority</b>              | Medium.   |
| <b>Estimated Time Needed</b> | 1 min.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.   |
| <b>Setup</b>                 | Set current prompt length as 0 characters and max prompt length as 300 in negativePromptCounter Label |
| <b>Procedure</b>             | [A01] Go to generate artwork page.  |
|                              | [A02] Enter a valid prompt.   |
|                              | [V01] Observe that the given prompt is shown in the textbox panel                                     |
| <b>Cleanup</b>               | -   |

#### 7.1.58 GUI.NGT.PRMT.TB.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.NGT.PRMT.TB.02  |
| <b>Purpose</b>               | Enter negative image prompt greater than 300 characters   |
| <b>Requirements</b>          | R28   |
| <b>Priority</b>              | Medium.   |
| <b>Estimated Time Needed</b> | 1 min.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.   |
| <b>Setup</b>                 | Set current prompt length as 0 characters and max prompt length as 300 in negativePromptCounter Label |
| <b>Procedure</b>             | [A01] Go to generate artwork page.  |
|                              | [A02] Enter a valid prompt contains more than 300 characters.   |
|                              | [V01] Observe that the given prompt is stop after 300 characters                                      |
| <b>Cleanup</b>               | -   |

#### 7.1.59 GUI.NGT.PRMT.TB.03

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.NGT.PRMT.TB.03  |
| <b>Purpose</b>               | Don't enter any negative prompt   |
| <b>Requirements</b>          | R28   |
| <b>Priority</b>              | Medium.   |
| <b>Estimated Time Needed</b> | 1 min.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.   |
| <b>Setup</b>                 | Set current prompt length as 0 characters and max prompt length as 300 in negativePromptCounter Label |
| <b>Procedure</b>             | [A01] Go to generate artwork page.  |
|                              | [A02] Don't enter any prompt.   |
|                              | [V01] Observe that the text box will be empty by indicates please enter a prompt.                     |
| <b>Cleanup</b>               | -   |

#### 7.1.60 GUI.PSTL.BTN.01

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.PSTL.BTN.01  |
| <b>Purpose</b>               | Choose a style option  |
| <b>Requirements</b>          | R28  |
| <b>Priority</b>              | Low.   |
| <b>Estimated Time Needed</b> | 5 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.                              |
| <b>Setup</b>                 | Loads the style options  |
| <b>Procedure</b>             | [A01] Go to generate artwork page.   |
|                              | [A02] Choose a style option.   |
|                              | [V01] Observe that the chosen style is change it color as shows that the style selected. |
| <b>Cleanup</b>               | -  |

#### 7.1.61 GUI.PSTL.BTN.02

|              |                 |
|--------------|-----------------|
| <b>TC_ID</b> | GUI.PSTL.BTN.02 |
|--------------|-----------------|

|                              |  |
|------------------------------|--|
| <b>Purpose</b>               | Don't choose a style option                                    |
| <b>Requirements</b>          | R28  |
| <b>Priority</b>              | Low.   |
| <b>Estimated Time Needed</b> | 2 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.    |
| <b>Setup</b>                 | Loads the style options  |
| <b>Procedure</b>             | [A01] Go to generate artwork page.                             |
|                              | [A02] Don't choose a style option.                             |
|                              | [V01] Observe that all the style options remain as same color. |
| <b>Cleanup</b>               | -  |

#### 7.1.62 GUI.STRY.SWT.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.STRY.SWT.01   |
| <b>Purpose</b>               | Enable add story switch                                     |
| <b>Requirements</b>          | R29   |
| <b>Priority</b>              | High.   |
| <b>Estimated Time Needed</b> | 5 seconds.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts. |
| <b>Setup</b>                 | Load the switch option as diasble                           |
| <b>Procedure</b>             | [A01] Go to generate artwork page.                          |
|                              | [A02] Enable the add story switch.                          |
|                              | [V01] Observe that the switch's color changes.              |
| <b>Cleanup</b>               | -   |

#### 7.1.63 GUI.STRY.SWT.02

|              |                 |
|--------------|-----------------|
| <b>TC_ID</b> | GUI.STRY.SWT.02 |
|--------------|-----------------|



|                              |   |
|------------------------------|---|
| <b>Purpose</b>               | Disable add story switch  |
| <b>Requirements</b>          | R29   |
| <b>Priority</b>              | High.   |
| <b>Estimated Time Needed</b> | 5 seconds.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.                               |
| <b>Setup</b>                 | Load the switch option as diasble   |
| <b>Procedure</b>             | [A01] Go to generate artwork page.  |
|                              | [A02] Enable the add story switch.  |
|                              | [A03] Disable the add story switch.   |
|                              | [V01] Observe that the switch's color remains same.<br>[A04] Don't touch the story switch |
|                              | [V02] Observe that the switch's color remains same.                                       |
| <b>Cleanup</b>               | -   |

#### 7.1.64 GUI.GEN.IMG.BTN

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.GEN.IMG.BTN  |
| <b>Purpose</b>               | Generate image and optional story  |
| <b>Requirements</b>          | R28, R29   |
| <b>Priority</b>              | High.  |
| <b>Estimated Time Needed</b> | 1 min.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>The user must enter an image prompt |
| <b>Setup</b>                 | Collect the image prompt, negative prompt, style choose, and switch status                         |
| <b>Procedure</b>             | [A01] Go to generate artwork page.   |
|                              | [A02] Enter image prompt   |
|                              | [A03] Enter negative prompt (Optional)   |
|                              | [A04] Choose style option (Optional)   |
|                              | [A05] Enable add story switch (Optional)   |
|                              | [A06] Click generate button.   |
|                              | [V01] Observe that the loading creation bar and switch the page to result creation page.           |

|                |   |
|----------------|---|
| <b>Cleanup</b> | - |
|----------------|---|

#### 7.1.65 GUI.IMG.VW.01

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.IMG.VW.01  |
| <b>Purpose</b>               | Shows the generated image picture  |
| <b>Requirements</b>          | R28  |
| <b>Priority</b>              | Medium   |
| <b>Estimated Time Needed</b> | 30 seconds.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test case GUI.GEN.IMG.BTN must be passed with a meaningful image prompt |
| <b>Setup</b>                 | Collect the image prompt, negative prompt, style choose, and switch status   |
| <b>Procedure</b>             | [A01] Go to story result page.   |
|                              | [V01] Observe that after the loading bar, in result creation page generated image showed.  |
| <b>Cleanup</b>               | -  |

#### 7.1.66 GUI.IMG.VW.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.IMG.VW.02   |
| <b>Purpose</b>               | Don't shows the generated image picture   |
| <b>Requirements</b>          | R28   |
| <b>Priority</b>              | Medium  |
| <b>Estimated Time Needed</b> | 30 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test case GUI.GEN.IMG.BTN must be passed with and meaningless image prompt |
| <b>Setup</b>                 | Collect the image prompt, negative prompt, style choose, and switch status  |
| <b>Procedure</b>             | [A01] Go to story result page.  |
|                              | [V01] Observe that after the loading bar, in result creation page error image showed.   |
| <b>Cleanup</b>               | -   |

#### 7.1.67 GUI.DL.IMG.BTN

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.DL.IMG.BTN  |
| <b>Purpose</b>               | Download the image shows in Image View to local storage   |
| <b>Requirements</b>          | R30   |
| <b>Priority</b>              | Low   |
| <b>Estimated Time Needed</b> | 5 seconds.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test case GUI.GEN.IMG.BTN must be passed |
| <b>Setup</b>                 | Upload the DALLE api result to the application  |
| <b>Procedure</b>             | [A01] Go to story result page.  |
|                              | [A02] Click the download button   |
|                              | [V01] Observe that there will be notification message indicates that the image downloaded.              |
| <b>Cleanup</b>               | -   |

#### 7.1.68 GUI.STRY.CNT.TW.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.STRY.CNT.TW.01  |
| <b>Purpose</b>               | Shows the generated image story   |
| <b>Requirements</b>          | R29   |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 40 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test cases GUI.GEN.IMG.BTN, GUI.STRY.SWT.01 must be passed |
| <b>Setup</b>                 | Upload the DALLE api result to the application  |
| <b>Procedure</b>             | [A01] Go to story result page.  |
|                              | [V01] Observe that there will be story about the image.   |
| <b>Cleanup</b>               | -   |

#### 7.1.69 GUI.STRY.CNT.TW.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.STRY.CNT.TW.02  |
| <b>Purpose</b>               | Don't shows the generated image story   |
| <b>Requirements</b>          | R29   |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 5 seconds.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test cases GUI.GEN.IMG.BTN, GUI.STRY.SWT.02 must be passed |
| <b>Setup</b>                 | Upload the DALLE api result to the application  |
| <b>Procedure</b>             | [A01] Go to story result page.  |
|                              | [V01] Observe that there won't be a story about the image.  |
| <b>Cleanup</b>               | -   |

#### 7.1.70 GUI.SHR.RB.01

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.SHR.RB.01  |
| <b>Purpose</b>               | Shows the artwork to all users   |
| <b>Requirements</b>          | R28, R29   |
| <b>Priority</b>              | Medium   |
| <b>Estimated Time Needed</b> | 10 seconds.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test cases GUI.GEN.IMG.BTN must be passed       |
| <b>Setup</b>                 | Wait to upload the DALLE api result to the application<br>Wait to upload the GPT api result to the application |
| <b>Procedure</b>             | [A01] Go to story result page.   |
|                              | [A02] Click the public radio button  |
|                              | [V01] Observe that the radio button color is set by seeing change of the color and the shape.                  |
| <b>Cleanup</b>               | -  |

### 7.1.71 GUI.SHR.RB.02

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.SHR.RB.02  |
| <b>Purpose</b>               | Shows the artwork to followers   |
| <b>Requirements</b>          | R28, R29   |
| <b>Priority</b>              | Medium   |
| <b>Estimated Time Needed</b> | 10 seconds.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test cases GUI.GEN.IMG.BTN must be passed       |
| <b>Setup</b>                 | Wait to upload the DALLE api result to the application<br>Wait to upload the GPT api result to the application |
| <b>Procedure</b>             | [A01] Go to story result page.   |
|                              | [A02] Click the private radio button   |
|                              | [V01] Observe that the radio button color is set by seeing change of the color and the shape.                  |
| <b>Cleanup</b>               | -  |

### 7.1.72 GUI.TAG.DSPLY.TW

|                              |  |
|------------------------------|--|
| <b>TC_ID</b>                 | GUI.TAG.DSPLY.TW   |
| <b>Purpose</b>               | Shows the artwork tag  |
| <b>Requirements</b>          | R28, R29   |
| <b>Priority</b>              | Low  |
| <b>Estimated Time Needed</b> | 2 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test cases GUI.GEN.IMG.BTN must be passed |
| <b>Setup</b>                 | Wait to open the story generation result page load   |
| <b>Procedure</b>             | [A01] Go to story result page.   |
|                              | [V01] Observe that the tag is seen inside the text view.   |
| <b>Cleanup</b>               | -  |

### 7.1.73 GUI.SHR.BTN

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.SHR.BTN   |
| <b>Purpose</b>               | Shares the artwork with third-party apps  |
| <b>Requirements</b>          | R28, R29  |
| <b>Priority</b>              | Low   |
| <b>Estimated Time Needed</b> | 20 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test case GUI.GEN.IMG.BTN, GUI.STRY.CNT.TW.01 must be passed |
| <b>Setup</b>                 | Wait to open the story generation result page load  |
| <b>Procedure</b>             | [A01] Go to story result page.  |
|                              | [A02] Click the shareButton   |
|                              | [A03] Choose any third-party app  |
|                              | [V01] Observe that the artwork will be send to the selected app.  |
| <b>Cleanup</b>               | -   |

### 7.1.74 GUI.SND.BTN

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.SND.BTN   |
| <b>Purpose</b>               | Saves the artwork her/his profile along with the firebase   |
| <b>Requirements</b>          | R28, R29, R31   |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 30 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>Test case GUI.GEN.IMG.BTN must be passed |
| <b>Setup</b>                 | Wait to open the story generation result page load  |
| <b>Procedure</b>             | [A01] Go to story result page.  |
|                              | [A02] Click the sendButton  |
|                              | [V01] Observe that the artwork will be saved both to the profile page and the firebase.                 |
| <b>Cleanup</b>               | -   |

#### 7.1.75 GUI.IMG.GEN.SWT.01

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.IMG.GEN.SWT.01  |
| <b>Purpose</b>               | Enable Image Generation Mode switch                         |
| <b>Requirements</b>          | R??   |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 5 seconds.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts. |
| <b>Setup</b>                 | Loads the Image Generation Mode switch as disabled          |
| <b>Procedure</b>             | [A01] Go to generate artwork page.                          |
|                              | [A02] Enable Image Generation Mode switch.                  |
|                              | [V01] Observe that the switch's color changes.              |
| <b>Cleanup</b>               | -   |

#### 7.1.76 GUI.IMG.GEN.SWT.02

|                              |   |
|------------------------------|---|
| <b>TC_ID</b>                 | GUI.IMG.GEN.SWT.02  |
| <b>Purpose</b>               | Disable Image Generation Mode switch                        |
| <b>Requirements</b>          | R??   |
| <b>Priority</b>              | High  |
| <b>Estimated Time Needed</b> | 5 seconds.  |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts. |
| <b>Setup</b>                 | Loads the Image Generation Mode switch as disabled          |
| <b>Procedure</b>             | [A01] Go to generate artwork page.                          |
|                              | [V01] Observe that the switch's color is gray.              |
|                              |   |
| <b>Cleanup</b>               | -   |

#### 7.1.77 GUI.GEN.IMG.BTN

|              |                 |
|--------------|-----------------|
| <b>TC_ID</b> | GUI.GEN.IMG.BTN |
|--------------|-----------------|

|                              |  |
|------------------------------|--|
| <b>Purpose</b>               | Generate image and optional story  |
| <b>Requirements</b>          | R??  |
| <b>Priority</b>              | High   |
| <b>Estimated Time Needed</b> | 1 seconds.   |
| <b>Dependency</b>            | The users must be successfully logged in to their accounts.<br>The user must enter an image prompt |
| <b>Setup</b>                 | Collect the image prompt, negative prompt, style choose, and switch status                         |
| <b>Procedure</b>             | [A01] Go to generate artwork page.   |
|                              | [A02] Enter image prompt.  |
|                              | [A03] Enter negative prompt (Optional)   |
|                              | [A04] Choose style option (Optional)   |
|                              | [A05] Enable add story switch (Optional)   |
|                              | [A06] Enable Image Generation Mode switch (Optional)   |
|                              | [A07] Click generate button.   |
|                              | [V01] Observe that the loading creation bar and switch the page to result creation page.           |
| <b>Cleanup</b>               | -  |

## 8. TEST RESULTS

### 8.1. Test Results Table

| TC ID     | Date Run   | Priority | Run By                 | Results | Explanation   |
|-----------|------------|----------|------------------------|---------|---|
| GUI.LG.01 | 14.05.2025 | H        | Emre Şahin<br>Demirbaş | PASS    | The previously registered user can successfully login to the application.   |
| GUI.LG.02 | 14.05.2025 | H        | Emre Şahin<br>Demirbaş | PASS    | The previously registered user is presented by the “Authentication Failed” message as he/she provided invalid password. |
| GUI.LG.03 | 14.05.2025 | H        | Emre Şahin             | PASS    | The previously registered user is   |



|           |            |   |                     |      |   |
|-----------|------------|---|---------------------|------|---|
|           |            |   | Demirbaş            |      | presented by the “Authentication Failed” message as he/she provided an invalid email address.   |
| GUI.LG.04 | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The unregistered user is presented by the “Authentication Failed” message as he/she is not a registered user of the application.  |
| GUI.FP.01 | 14.05.2025 | M | Emre Şahin Demirbaş | PASS | The user is presented by the Google Firebase’s “the email is in use” error and is prevented to create another account with an already signed up email address.  |
| GUI.FP.02 | 14.05.2025 | M | Emre Şahin Demirbaş | PASS | The user can successfully create a new account with an email address, which is not already signed up to the application.  |
| GUI.SU.01 | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application does not let the user sign up with a weak password, invokes the “weakPasswordException” Toast message of the Google Firebase.   |
| GUI.SU.02 | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application does not let the user sign up with an invalid email address (i.e. the address does not contain the @ symbol), invokes the “invalidCredentialsException” Toast message of the Google Firebase. |
| GUI.SU.03 | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application does not let the user sign up with an invalid username (which includes capital letters) and invokes the hard-coded “Username must not contain uppercase letters” Toast message.               |
| GUI.SU.04 | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application does not let the user sign up with an existing username and invokes the hard-coded “This username is already taken. Please choose another one.” Toast   |

|            |            |   |                        |      |   |
|------------|------------|---|------------------------|------|---|
|            |            |   |                        |      | message.  |
| GUI.SU.05  | 14.05.2025 | H | Emre Şahin<br>Demirbaş | PASS | The application does not let the user sign up with an already existing email address invokes the “userCollisionException” Toast message of the Google Firebase.                               |
| GUI.SU.06  | 14.05.2025 | H | Emre Şahin<br>Demirbaş | PASS | The application lets the user successfully create a new account.  |
| GUI.SU.07  | 14.05.2025 | H | Emre Şahin<br>Demirbaş | PASS | The application does not let the user sign up if the two password fields do not match and invokes the hard-coded “Password fields do not match.” Toast message.                               |
| GUI.LAA.01 | 14.05.2025 | L | Emre Şahin<br>Demirbaş | PASS | The application lets the user click on the like button, the heart icon changes its color to black and the system displays “Post liked!” Toast message.  |
| GUI.LAA.02 | 14.05.2025 | L | Emre Şahin<br>Demirbaş | PASS | The application lets the user click on the already clicked like button, the heart icon changes its color to white again and the system displays “Post unliked!” Toast message.                |
| GUI.SAA.01 | 14.05.2025 | L | Emre Şahin<br>Demirbaş | PASS | The application successfully lets the user share a desired user’s artwork on a third-party application.   |
| GUI.SAA.02 | 14.05.2025 | L | Emre Şahin<br>Demirbaş | PASS | The application successfully informs the user whether the sharing on a third-party application is successful or not.  |
| GUI.FP.01  | 14.05.2025 | L | Emre Şahin<br>Demirbaş | PASS | The application, by default, will display the artworks on the search page according to most likes and by newest on the homepage regardless of an input from the user to pick a filter option. |
| GUI.FP.02  | 14.05.2025 | L | Emre Şahin<br>Demirbaş | PASS | The application will let the user observe the artworks according to their filtering choice.   |
| GUI.CMT.01 | 14.05.2025 | H | Emre Şahin             | PASS | The application lets the user post a  |

|               |            |   |                     |      |  |
|---------------|------------|---|---------------------|------|--|
|               |            |   | Demirbaş            |      | comment on the related artwork and displays it on the comments section of that artwork.  |
| GUI.CMT.02    | 14.05.2025 | M | Emre Şahin Demirbaş | PASS | The application does not let the user to make an empty comment and invokes the hard-coded “Comment cannot be empty!” Toast message.                          |
| GUI.CMT.03    | 14.05.2025 | M | Emre Şahin Demirbaş | PASS | The application successfully resets the unsent comments written in the comment box.  |
| GUI.CMT.04    | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application limits the user’s number of character entry to 2000 characters to prevent possible errors.   |
| GUI.UVP.01    | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application lets the user visit the desired user’s profile upon clicking on the profile picture below the post.  |
| GUI.UVP.02    | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application lets the user visit the desired user’s profile upon clicking on the name of a related user upon searching from the search page’s search bar. |
| GUI.FAU.01    | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application lets the user follow another user upon clicking on the “Follow” button.  |
| GUI.FAU.02    | 14.05.2025 | M | Emre Şahin Demirbaş | PASS | The application successfully lets the user follow or unfollow the related user upon odd and even number of clicks respectively.                              |
| GUI.HPN.01    | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application lets the user successfully navigate between pages by clicking on the icons at the top and bottom navigation bars.                            |
| GUI.HPN.02    | 14.05.2025 | H | Emre Şahin Demirbaş | PASS | The application successfully refreshes its content upon page reopening.  |
| GUI.CMPA      | 12.05.2025 | H | Mehmet Emre Kılınç  | PASS | Achievement progress is visible on the page and marked as completed when completed.  |
| GUI.MOROPT.01 | 12.05.2025 | H | Mehmet Emre Kılınç  | PASS | Settings changes were applied to the application and when signed out it  |

|                     |            |   |                    |      |   |
|---------------------|------------|---|--------------------|------|---|
|                     |            |   |                    |      | directed to the Login page.   |
| GUI.SRCH.PG.01      | 12.05.2025 | H | Mehmet Emre Kılınç | PASS | The user with the searched username and their posts are visible.                            |
| GUI.SRCH.PG.03      | 12.05.2025 | M | Mehmet Emre Kılınç | PASS | The profile of the clicked user has been opened.  |
| GUI.SRCH.PG.04      | 12.05.2025 | M | Mehmet Emre Kılınç | PASS | A detailed view of the clicked artwork appears.   |
| GUI.NOT.PG.01       | 12.05.2025 | M | Mehmet Emre Kılınç | PASS | Incoming notifications appeared on the page.  |
| GUI.NOT.PG.02       | 12.05.2025 | L | Mehmet Emre Kılınç | PASS | The profile of the clicked user has been opened.  |
| GUI.CH.ACH.PG.01    | 12.05.2025 | H | Mehmet Emre Kılınç | PASS | Challenges and completed challenges appeared.   |
| GUI.CH.ACH.PG.02    | 12.05.2025 | H | Mehmet Emre Kılınç | PASS | The Achievements page was opened, and the achievements appeared.                            |
| GUI.OP.01           | 12.05.2025 | M | Mehmet Emre Kılınç | PASS | Our own artworks were displayed on our profile.   |
| GUI.OP.02           | 12.05.2025 | M | Mehmet Emre Kılınç | PASS | Our profile photo has changed.  |
| GUI.OP.04           | 12.05.2025 | M | Mehmet Emre Kılınç | PASS | The user's username has changed.  |
| GUI.FLL             | 14.05.2025 | M | Tunahan Gültekin   | FAIL | The user can only see the followers count from his/her profile, but not the followers list. |
| GUI.FOL             | 14.05.2025 | M | Tunahan Gültekin   | FAIL | The user can only see the follows count from his/her profile, but not the follows list.     |
| GUI.SGNO            | 14.05.2025 | M | Tunahan Gültekin   | PASS | User can sign out.  |
| GUI.CHNG.PWD.BTN.01 | 14.05.2025 | M | Tunahan Gültekin   | PASS | User can enter a not valid prompt which contains at least 6 characters                      |
| GUI.CHNG.PWD.BTN.02 | 14.05.2025 | M | Tunahan Gültekin   | PASS | User can enter a valid prompt which does not contain at least 6 characters                  |
| GUI.CHNG.THM.BTN    | 14.05.2025 | L | Tunahan Gültekin   | PASS | User can change theme.  |
| GUI.SRCH.ART.BTN    | 14.05.2025 | H | Tunahan Gültekin   | PASS | User can search artwork or user.  |
| GUI.PRMT.TB.01      | 14.05.2025 | M | Tunahan Gültekin   | PASS | User can enter image prompt less or equal to 300 characters                                 |

|                    |            |   |                  |      |  |
|--------------------|------------|---|------------------|------|--|
| GUI.PRMT.TB.02     | 14.05.2025 | M | Tunahan Gültekin | PASS | User can enter an image prompt greater than 300 characters doesn't contains the given prompt properties. |
| GUI.PRMT.TB.03     | 14.05.2025 | M | Tunahan Gültekin | PASS | User can't enter any prompt.   |
| GUI.NGT.PRMT.TB.03 | 14.05.2025 | M | Tunahan Gültekin | PASS | Do not enter any prompt  |
| GUI.STRY.SWT.01    | 15.05.2025 | L | Mertcan ZAFER    | PASS | The user enables add story switch button to add story to the generated image                             |
| GUI.STRY.SWT.02    | 15.05.2025 | L | Mertcan ZAFER    | PASS | The user disables add story switch button to not add story to the generated image                        |
| GUI.GEN.IMG.BTN    | 15.05.2025 | L | Mertcan ZAFER    | PASS | Click generate button to create an image and optional a story based on story switch status               |
| GUI.IMG.VW.01      | 15.05.2025 | M | Mertcan ZAFER    | PASS | The application shows the generated image picture  |
| GUI.IMG.VW.02      | 15.05.2025 | M | Mertcan ZAFER    | PASS | The application doesn't show the generated image picture   |
| GUI.DL.IMG.BTN     | 15.05.2025 | L | Mertcan ZAFER    | PASS | User downloads the image showed on Image View  |
| GUI.STRY.CNT.TW.01 | 15.05.2025 | H | Mertcan ZAFER    | PASS | The application shows the generated image story  |
| GUI.STRY.CNT.TW.02 | 15.05.2025 | H | Mertcan ZAFER    | PASS | The application doesn't show the generated image story   |
| GUI.SHR.RB.01      | 15.05.2025 | M | Mertcan ZAFER    | PASS | The application shows the artwork to all users   |
| GUI.SHR.RB.02      | 15.05.2025 | M | Mertcan ZAFER    | PASS | The application shows the artwork to only followers  |
| GUI.TAG.DSPLY.TW   | 15.05.2025 | L | Mertcan ZAFER    | PASS | The application shows the artwork unique tag generated by the system.                                    |
| GUI.TAG.DSPLY.TW   | 15.05.2025 | L | Mertcan ZAFER    | PASS | The application lets the user successfully create a new account.   |
| GUI.SHR.BTN        | 15.05.2025 | L | Mertcan ZAFER    | PASS | The application shares the artwork generated   |
| GUI.SND.BTN        | 15.05.2025 | L | Mertcan          | PASS | The application saves the artwork  |

|                        |            |   |                        |      |  |
|------------------------|------------|---|------------------------|------|--|
|                        |            |   | ZAFER                  |      | both to his/her profile page and the firebase. |
| GUI.IMG.GEN.<br>SWT.01 | 15.05.2025 | H | Emre Şahin<br>Demirbaş | PASS | The color of the switch changes.               |
| GUI.IMG.GEN.<br>SWT.02 | 15.05.2025 | H | Emre Şahin<br>Demirbaş | PASS | The switch color changes to gray.              |
| GUI.GEN.IMG.<br>BTN    | 15.05.2025 | H | Mehmet<br>Emre Kılınç  | PASS | Page navigates to the results page             |

| Priority     | Number of TCs | Executed  | Passed    |
|--------------|---------------|-----------|-----------|
| H            | 26            | 26        | 26        |
| M            | 24            | 24        | 22        |
| L            | 16            | 16        | 16        |
| <b>Total</b> | <b>66</b>     | <b>66</b> | <b>64</b> |

We have successfully executed a total of 66 test cases out of which 64 have passed. Additionally, all high priority test cases as well as 22 medium priority test cases were passed successfully. Given these results, we are pleased to confirm that the exit criteria have been fully met.

## 8.2. Exit Criteria

| Exit Criteria             | Status |
|---------------------------|--------|
| <b>Test Coverage:</b>     |        |
| - All test cases executed | Met    |

|  |     |
|--|-----|
| - 90% or more test cases passed                                  | Met |
| - All High Priority test cases passed                            | Met |
| <b>Critical Functionality:</b>                                   |     |
| - No outstanding high priority or severe bugs                    | Met |
| - Essential functionalities pass without critical issues         | Met |
| <b>Stability and Performance:</b>                                |     |
| - Essential functionalities perform within acceptable parameters | Met |
| <b>Specific Functionality:</b>                                   |     |
| - All essential functionalities pass testing.                    | Met |

### 8.3. Known Problems

When the internet connection is interrupted, some of the functionalities within the application should have popped up error messages, but as in the last form of the application, it just fails to perform the respective operations (i.e. like only changes the heart icon color but no notification will be sent or the post will not be liked).

### 8.4. Conclusion

Our application has met our pre-determined use case success rate criteria after our detailed testing phase. Some minor problems still exist in the application, and they are listed in the “Known Problems” section of this document or trying to be fixed before the presentation date.