

**ÇANKAYA UNIVERSITY FACULTY OF ENGINEERING**

**COMPUTER ENGINEERING DEPARTMENT**

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

**Version 1**

**CENG 408**

Innovative System Design and Development II

**ATADAN**

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# INTRODUCTION

## Version Control

|  |  |  |
| --- | --- | --- |
| **Version No** | **Description of Changes** | **Date** |
| 1.0 | First Version | Mar 26, 2023 |

## Overview

The usability, efficiency and error margins of the specified use cases of ATADAN Application will be tested.

## Scope

This document explains the testing stages and test details of the ATADAN Application. The goal is to help the application develop and reach its most advanced state by testing.

## Terminology

| **Acronym** | **Definition** |
| --- | --- |
| SU | Sign Up |
| AT | Analyze Plant Type |
| AD | Analyze Disease |
| DL | Contribute Data Labeling |
| EP | Edit Profile |
| AP | Add and Take Photo to Album |
| FC | Find the Closest Pesticide Dealer |
| SM | Show Natural and Chemical Solution Methods |
| CA | Check the Agricultural Weather Forecast |

# FEATURES TO BE TESTED

This section lists and gives a brief description of all the major features to be tested. For each major feature there will be a Test Design Specification added at the end of this document.

## Sign Up (SU)

The feature that allows the registered user to sign up to the system using mail and password.

## Analyze Plant Type (AT)

The feature that detects the type of plant whose photo is uploaded to the system.

## Contribute Data Labeling (DL)

The feature that allows the obtained photo data to be classified and stored.

## Edit Profile (EP)

The feature that allows users to edit their profiles on the system.

## Add and Take Photo to Album (AP)

The feature that allows users to edit their profiles on the system.

## Find the Closest Pesticide Dealer (FC)

The feature that allows users to find closest pesticide dealer.

## Show Natural and Chemical Solution Methods (SM)

The feature that allows users to see natural and chemical solution methods.

## Ask to an Agricultural Engineer (AE)

The feature that allows users to ask to an agricultural engineer.

## Check the Agricultural Weather Forecast (CA)

The feature that allows users to edit their profiles on the system.

# ITEM PASS/FAIL CRITERIA

## Exit Criteria

Describe under what conditions the testing of the product is considered successful. Some examples are:

* 100% of the test cases are executed
* 95% of the test cases passed
* All High and Medium Priority test cases passed

# REFERENCES

1. <https://github.com/CankayaUniversity/ceng-407-408-2022-2023-ATADAN/wiki/SDD>
2. <https://github.com/CankayaUniversity/ceng-407-408-2022-2023-ATADAN/wiki/SRS>

# 

# TEST DESIGN SPECIFICATIONS

## Sign Up (SU)

### Subfeatures to be tested

#### User (SU.US)

Person trying to register to the server to use the application.

#### Sign Up Button (SU.SUB)

After providing the necessary information, the button to be clicked on to register.

#### Input Display (SU.ID)

Screen output that allows the user to properly enter the required information.

### Test Cases

Here list all the related test cases for this feature

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| SU.US.01 | 2.1 | H | Enter a user id and password |
| SU.US.02 | 2.1 | H | Enter a user id and blank password |
| SU.US.03 | 2.1 | H | Enter a blank user id and password |
| SU.US.04 | 2.1 | H | Enter a blank user id and blank password |

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| SU.SUB.01 | 2.1 | M | Click button 1 time |
| SU.SUB.02 | 2.1 | S | Click button more than 1 time rapidly |

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| SU.ID.01 | 2.1 | S | Change display window size |

## Analyze Plant Type (AT)

### Subfeatures to be tested

#### Taking Photo (AT.TP)

Taking the photo instantly and uploading it to the system for review.

#### Uploading Photo(AT.UP)

Uploading the previously taken photo from the device memory to the system.

### Test Cases

Here list all the related test cases for this feature

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| AT.TP.01 | 2.2 | H | Taking a plant photo |
| AT.TP.02 | 2.2 | H | Taking a non plant photo |

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| AT.UP.01 | 2.2 | H | Uploading a plant photo |
| AT.UP.02 | 2.2 | H | Uploading a non plant photo |

## Contribute Data Labeling (DL)

#### Adding Data (DL.AD)

Describe in 1-2 sentence this sub feature.

### Test Cases

Here list all the related test cases for this feature

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| DL.AD.01 | 2.3 | H | Adding valid data |
| DL.AD.02 | 2.3 | H | Adding unvalid data |

## Edit Profile (EP)

### Subfeatures to be tested

#### User (EP.US)

Person trying to edit his profile in the application.

#### Edit Profile Button (EP.EPB)

Button that the user uses to edit their profile.

### Test Cases

Here list all the related test cases for this feature

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| EP.US.01 | 2.4 | H | Change user name |
| EP.US.02 | 2.4 | H | Change password |

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| EP.EPB.01 | 2.4 | M | Click button 1 time |
| EP.EPB.02 | 2.4 | S | Click button more than 1 time rapidly |

## Add and Take Photo to Album (AP)

### Subfeatures to be tested

#### Add Photo (AP.AP)

Add a previously taken photo to the system.

#### Take Photo (AP.TP)

Taking a new photo using the app.

### Test Cases

Here list all the related test cases for this feature

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| AP.AP.01 | 2.5 | H | Add photo |
| AP.AP.02 | 2.5 | H | Add another file |

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| AP.TP.01 | 2.5 | H | Take photo |
| AP.TP.02 | 2.5 | H | Take non plant photo |

## 

## Find the Closest Pesticide Dealer (FC)

### Subfeatures to be tested

#### Enter Location (FC.EL)

User enters his address in the system.

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| FC.EL.01 | 2.6 | M | Enter a location |
| FC.EL.02 | 2.6 | M | Enter something else |

## Show Natural and Chemical Solution Methods (SM)

### Subfeatures to be tested

#### Show Solution Button (SM.SS)

Button to show solution methods.

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| SM.SS.01 | 2.7 | M | Click button 1 time |
| SM.SS.02 | 2.7 | S | Click button more than 1 time rapidly |

## Check the Agricultural Weather Forecast (CA)

### Subfeatures to be tested

#### Set Parameter (CA.SP)

Add a previously taken photo to the system.

#### Check Weather Button (CA.CW)

Taking a new photo using the app.

### Test Cases

Here list all the related test cases for this feature

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| CA.SP.01 | 2.9 | H | Set parameter |
| CA.SP.02 | 2.9 | H | Set wrong parameter |

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| CA.CW.01 | 2.9 | M | Click button 1 time |
| CA.CW.02 | 2.9 | S | Click button more than 1 time rapidly |

# 

# Detailed Test Cases

## SU.US.01

|  |  |
| --- | --- |
| **TC\_ID** | SU.US.01 |
| **Purpose** | Enter a user id and password |
| **Requirements** | 2.1 |
| **Priority** | High. |
| **Estimated Time Needed** | 3 Minutes |
| **Dependency** | Warning test cases should pass |
| **Setup** | An user should be created. |
| **Procedure** | [A01] Go to sign up page. |
| [A02] Enter a user id. |
| [A03] Enter the password for this user |
| [A04] Click on the “Sign Up” button. |
| [V01] Observe that the signing up is successful and the user page appears |
| - |
| **Cleanup** | Logout |

## SU.US.02

|  |  |
| --- | --- |
| **TC\_ID** | SU.US.02 |
| **Purpose** | Enter a user id and blank password |
| **Requirements** | 2.1 |
| **Priority** | High. |
| **Estimated Time Needed** | 2 Minutes |
| **Dependency** | Warning test cases should pass |
| **Setup** | A warning must be show up. |
| **Procedure** | [A01] Go to sign up page. |
| [A02] Enter a valid user id. |
| [A03] Leave password empty. |
| [A04] Click on the “Sign UP” button. |
| [V01] Observe that the warning window works properly. |
| - |
| **Cleanup** | Close warning |

## SU.US.03

|  |  |
| --- | --- |
| **TC\_ID** | SU.US.03 |
| **Purpose** | Enter a blank user id and password |
| **Requirements** | 2.1 |
| **Priority** | High. |
| **Estimated Time Needed** | 2 Minutes |
| **Dependency** | Warning test cases should pass |
| **Setup** | A warning must be show up. |
| **Procedure** | [A01] Go to sign up page. |
| [A02] Leave user id empty. |
| [A03] Enter random password for this user |
| [A04] Click on the “Sign Up” button. |
| [V01] Observe that the warning window works properly. |
| - |
| **Cleanup** | Close warning |

## SU.US.04

|  |  |
| --- | --- |
| **TC\_ID** | SU.US.04 |
| **Purpose** | Enter a blank user id and blank password |
| **Requirements** | 2.1 |
| **Priority** | High. |
| **Estimated Time Needed** | 2 Minutes |
| **Dependency** | Warning test cases should pass |
| **Setup** | A warning must be show up. |
| **Procedure** | [A01] Go to sign up page. |
| [A02] Leave user id empty. |
| [A03] Leave password empty. |
| [A04] Click on the “Sign Up” button. |
| [V01] Observe that the warning window works properly. |
| - |
| **Cleanup** | Close warning |

## SU.SUB.01

|  |  |
| --- | --- |
| **TC\_ID** | SU.SUB.01 |
| **Purpose** | Click sign up button 1 time |
| **Requirements** | 2.1 |
| **Priority** | Medium. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Sign up button must gets darker. |
| **Procedure** | [A01] Go to sign up page. |
| [A02] Click on the “Sign Up” button. |
| [V01] Observe that the sign up button works properly. |
| - |
| **Cleanup** | Click blank |

## SU.SUB.02

|  |  |
| --- | --- |
| **TC\_ID** | SU.SUB.02 |
| **Purpose** | Click sign up button more than 1 time rapidly |
| **Requirements** | 2.1 |
| **Priority** | Small. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Sign up button must gets darker rapidly. |
| **Procedure** | [A01] Go to sign up page. |
| [A02] Click on the “Sign Up” button. |
| [V01] Observe that the sign up button works properly. |
| - |
| **Cleanup** | Click blank |

## SU.ID.01

|  |  |
| --- | --- |
| **TC\_ID** | SU.ID.01 |
| **Purpose** | Change display window size |
| **Requirements** | 2.1 |
| **Priority** | Small. |
| **Estimated Time Needed** | 2 Minutes |
| **Dependency** | Display test cases should pass |
| **Setup** | Display size must change. |
| **Procedure** | [A01] Go to sign up page. |
| [A02] Click on the corner of display. |
| [A03] Change size |
| [V01] Observe that the display size changes properly. |
| - |
| **Cleanup** | Leave page |

## AT.TP.01

|  |  |
| --- | --- |
| **TC\_ID** | AT.TP.01 |
| **Purpose** | Taking a plant photo |
| **Requirements** | 2.2 |
| **Priority** | High. |
| **Estimated Time Needed** | 4 Minutes |
| **Dependency** | Photo take test cases should pass |
| **Setup** | A photo must taken. |
| **Procedure** | [A01] Go to camera. |
| [A02] Set frame. |
| [A03] Click on the circle button. |
| [V01] Observe that the photo taken. |
| - |
| **Cleanup** | Exit camera |

## AT.TP.02

|  |  |
| --- | --- |
| **TC\_ID** | AT.TP.02 |
| **Purpose** | Taking a non plant photo |
| **Requirements** | 2.2 |
| **Priority** | High. |
| **Estimated Time Needed** | 3 Minutes |
| **Dependency** | Photo take test cases should pass |
| **Setup** | A photo must taken but not accepted. |
| **Procedure** | [A01] Go to camera. |
| [A02] Set frame. |
| [A03] Click on the circle button. |
| [V01] Observe that the photo taken and not accepted. |
|  | - |
| **Cleanup** | Exit camera |

## AT.UP.01

|  |  |
| --- | --- |
| **TC\_ID** | AT.UP.01 |
| **Purpose** | Uploading a plant photo |
| **Requirements** | 2.2 |
| **Priority** | High. |
| **Estimated Time Needed** | 3 Minutes |
| **Dependency** | Photo upload test cases should pass |
| **Setup** | A photo must uploaded. |
| **Procedure** | [A01] Go to gallery. |
| [A02] Select photo. |
| [V01] Observe that the photo Uploaded. |
| - |
| **Cleanup** | Exit gallery |

## AT.UP.02

|  |  |
| --- | --- |
| **TC\_ID** | AT.UP.02 |
| **Purpose** | Uploading a non plant photo |
| **Requirements** | 2.2 |
| **Priority** | High. |
| **Estimated Time Needed** | 3 Minutes |
| **Dependency** | Photo upload test cases should pass |
| **Setup** | A photo must uploaded but not accepted. |
| **Procedure** | [A01] Go to gallery. |
| [A02] Select photo. |
| [V01] Observe that the photo Uploaded but not accepted. |
| - |
| **Cleanup** | Exit gallery |

## DL.AD.01

|  |  |
| --- | --- |
| **TC\_ID** | DL.AD.01 |
| **Purpose** | Adding valid data |
| **Requirements** | 2.3 |
| **Priority** | High. |
| **Estimated Time Needed** | 4 Minutes |
| **Dependency** | Data test cases should pass |
| **Setup** | A data must added. |
|  | [A01] Select data. |
| [V01] Observe that the data added. |
| - |
| **Cleanup** | Go to menu |

## DL.AD.02

|  |  |
| --- | --- |
| **TC\_ID** | DL.AD.02 |
| **Purpose** | Adding unvalid data |
| **Requirements** | 2.3 |
| **Priority** | High. |
| **Estimated Time Needed** | 4 Minutes |
| **Dependency** | Data test cases should pass |
| **Setup** | A data must added but not accepted. |
|  | [A01] Select data. |
| [V01] Observe that the data added but not accepted. |
| - |
| **Cleanup** | Go to menu |

## EP.US.01

|  |  |
| --- | --- |
| **TC\_ID** | EP.US.01 |
| **Purpose** | Change user name |
| **Requirements** | 2.4 |
| **Priority** | High. |
| **Estimated Time Needed** | 2 Minutes |
| **Dependency** | Warning test cases should pass |
| **Setup** | An user name should be changed. |
| **Procedure** | [A01] Go to edit profile page. |
| [A02] Enter a new user id. |
| [A03] Click on the “Change User Name” button. |
| [V01] Observe that the user name change is successful and the user page appears |
| - |
| **Cleanup** | Logout |

## EP.US.02

|  |  |
| --- | --- |
| **TC\_ID** | EP.US.02 |
| **Purpose** | Change password |
| **Requirements** | 2.4 |
| **Priority** | High. |
| **Estimated Time Needed** | 2 Minutes |
| **Dependency** | Warning test cases should pass |
| **Setup** | A password should be changed. |
| **Procedure** | [A01] Go to edit profile page. |
| [A02] Enter a new password. |
| [A03] Leave password empty. |
| [A04] Click on the “Change Password” button. |
| [V01] Observe that the password change is successful and the user page appears |
| - |
| **Cleanup** | Logout |

## EP.EPB.01

|  |  |
| --- | --- |
| **TC\_ID** | EP.EPB.01 |
| **Purpose** | Click change button 1 time |
| **Requirements** | 2.1 |
| **Priority** | Medium. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Change button must gets darker. |
| **Procedure** | [A01] Go to edit profile page. |
| [A02] Click on the “Change” button. |
| [V01] Observe that the sign up button works properly. |
| - |
| **Cleanup** | Click blank |

## EP.EPB.02

|  |  |
| --- | --- |
| **TC\_ID** | EP.EPB.02 |
| **Purpose** | Click change button more than 1 time rapidly |
| **Requirements** | 2.1 |
| **Priority** | Small. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Change button must gets darker rapidly. |
| **Procedure** | [A01] Go to edit profile page. |
| [A02] Click on the “Change” button. |
| [V01] Observe that the sign up button works properly. |
| - |
| **Cleanup** | Click blank |

## AP.AP.01

|  |  |
| --- | --- |
| **TC\_ID** | AP.AP.01 |
| **Purpose** | Adding suitable photo from gallery |
| **Requirements** | 2.5 |
| **Priority** | High. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Sign up button must gets darker. |
| **Procedure** | [A01] Go to Home after the login page |
| [A02] Click on the “Open Gallery” button |
| [V01] Choose the appropriate photo from the gallery. |
| - |
| **Cleanup** | Go to menu |

## AP.AP.02

|  |  |
| --- | --- |
| **TC\_ID** | AP.AP.02 |
| **Purpose** | Adding unsuitable photo from gallery |
| **Requirements** | 2.5 |
| **Priority** | High. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Sign up button must gets darker. |
| **Procedure** | [A01] Go to Home after the login page |
| [A02] Click on the “Open Gallery” button |
| [V01] Choose the unsuitable photo from the gallery. |
| - |
| **Cleanup** | Go to menu |

## FC.EL.02

|  |  |
| --- | --- |
| **TC\_ID** | FC.EL.01 |
| **Purpose** | Finding Closest Pesticide Dealer |
| **Requirements** | 2.6 |
| **Priority** | Medium. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Sign up button must gets darker. |
| **Procedure** | [A01] Go to Closest Pesticide Dealer page. |
| [A02] Connect to Google Maps. |
| [V01] Show the suitable pesticide dealers. |
| - |
| **Cleanup** | Go to menu |

## FC.EL.02

|  |  |
| --- | --- |
| **TC\_ID** | FC.EL.02 |
| **Purpose** | Finding Closest Pesticide Dealer |
| **Requirements** | 2.6 |
| **Priority** | Medium. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Sign up button must gets darker. |
| **Procedure** | [A01] Go to Closest Pesticide Dealer page. |
| [A02] Connect to Google Maps. |
| [V01] Show the unsuitable pesticide dealers. |
| - |
| **Cleanup** | Go to menu |

## AE.AQ.01

|  |  |
| --- | --- |
| **TC\_ID** | AE.AQ.01 |
| **Purpose** | Ask a plant question to engineer |
| **Requirements** | 2.8 |
| **Priority** | High. |
| **Estimated Time Needed** | 3 Minutes |
| **Dependency** | Data test cases should pass |
| **Setup** | A question must asked. |
|  | [A01] Question Asked |
| [V01] Engineer Answers Question |
| - |
| **Cleanup** | Go to menu |

## AE.AQ.02

|  |  |
| --- | --- |
| **TC\_ID** | AE.AQ.02 |
| **Purpose** | Ask irrelevant question to engineer |
| **Requirements** | 2.8 |
| **Priority** | High. |
| **Estimated Time Needed** | 3 Minutes |
| **Dependency** | Data test cases should pass |
| **Setup** | A question must asked but not accepted. |
|  | [A01] Question Asked |
| [V01] Question not reach engineer |
| - |
| **Cleanup** | Go to menu |

## CA.SP.01

|  |  |
| --- | --- |
| **TC\_ID** | CA.SP.01 |
| **Purpose** | Setting valid data |
| **Requirements** | 2.9 |
| **Priority** | High. |
| **Estimated Time Needed** | 3 Minutes |
| **Dependency** | Data test cases should pass |
| **Setup** | A parameter must added. |
|  | [A01] Set parameter. |
| [V01] Observe that the parameter set. |
| - |
| **Cleanup** | Go to menu |

## CA.SP.02

|  |  |
| --- | --- |
| **TC\_ID** | CA.SP.02 |
| **Purpose** | Setting unvalid data |
| **Requirements** | 2.9 |
| **Priority** | High. |
| **Estimated Time Needed** | 3 Minutes |
| **Dependency** | Data test cases should pass |
| **Setup** | A parameter must setted but not accepted. |
|  | [A01] Set wrong parameter. |
| [V01] Observe that the parameter set but not accepted. |
| - |
| **Cleanup** | Go to menu |

## CA.CW.01

|  |  |
| --- | --- |
| **TC\_ID** | CA.CW.01 |
| **Purpose** | Click sign up button 1 time |
| **Requirements** | 2.9 |
| **Priority** | Medium. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Sign up button must gets darker. |
| **Procedure** | [A01] Go to Check the Agricultural Weather Forecast page. |
| [A02] Click on the “Check Weather” button. |
| [V01] Observe that the Check Weather button works properly. |
| - |
| **Cleanup** | Click blank |

## CA.CW.02

|  |  |
| --- | --- |
| **TC\_ID** | CA.CW.02 |
| **Purpose** | Click sign up button more than 1 time rapidly |
| **Requirements** | 2.9 |
| **Priority** | Small. |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Button test cases should pass |
| **Setup** | Sign up button must gets darker rapidly. |
| **Procedure** | [A01] Go to Check the Agricultural Weather Forecast page. |
| [A02] Click on the “Check Weather” button. |
| [V01] Observe that the Check Weather button works properly. |
| - |
| **Cleanup** | Click blank |