

**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

**SUMMER TRAINING**

**INFORMATION SYSTEM**

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**1.** **FEATURES TO BE TESTED**

**1.1 Version Control**

|  |  |  |
| --- | --- | --- |
| **Version No** | Description of Changes | Date |
| 1.0 | First Version | March 29,2022 |

**1.2 Overview**

The use case of ThinCloud Client Mobile Applıcation: System users namely participant and admin which had been determined in SRS and SDD document will be tested.

**1.3 Scope**

This document encapsulates the test plan of the use cases, test design specifications and the test cases correspond to test plan.

**2.** **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. The user who encounters this screen is expected to log in. After logging in, the user is automatically redirected to the home screen.

**2.1 Opening Screen**

The interface that welcomes the user after the application is opened. The user who encounters this screen is expected to log in. After logging in, the user is automatically redirected to the home screen. It is checked whether it has been entered correctly with the log in.

**2.2 Home Screen**

The logged in user encounters this screen. If there are, they can see the computers that are currently registered to the system. The user can add a new computer.

**2.3 Payment Screen**

Users logging into the system enter this page in order to be informed about payments.

On this screen, the user can see how much balance he has left and his in-app expenditures. Apart from that, he can load balance into his account.

**2.4 Files Screen**

Users logging in on the Files screen can see how much storage they are using. In addition, it can upload files to and download files from the computers it owns.

**2.5 Settings Screen**

On the Settings page, logged in users can change the settings offered by the system.

**3.** **ITEM PASS/FAIL CRITERIA**

**3.1** **Exit Criteria**

* 100% of the test cases are executed
* 90% of the test cases passed
* All High and Medium Priority test cases passed

**4.** **REFERENCES**

* *[1] ceng-407-408-2021-2022-ThinCloud-Mobile-Client-Mobile-App-Development-Testing-Project\_SRS\_100, March 29, 2022*
* [2] ceng-407-408-2021-2022-ThinCloud-Mobile-Client-Mobile-App-Development-Testing-Project\_SDD\_100, March 29, 2022

**5.** **TEST DESIGN SPECIFICATIONS**

**5.1.1 Opening Screen(OS)**

* **5.1.1.1 Login Button(OS.LG)**

The user who enters her information presses the login button to log in to the system.

* **5.1.1.2 Social Media Platorms Login Button(OS.SLG)**

Users who want to log in with social media platforms can log in by pressing this button.

* **5.1.1.3 Register Button(OS.RG)**

Button that allows visitors to register.

**5.1.2 Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| OS.LG.01 |  | H | Select “Login” button. After selecting, Login panel will be displayed. |
| OS.SLG.01 |  | H | Select “Social Media” button. After selecting, Social Media Panel will be displayed. |
| OS.RG.01 |  | H | Select “Register” button. After selecting, Register will be displayed. |

**5.2.1 Home Screen(HS)**

* **5.2.1.1 Add Computer(HS.AC)**

The user logged into the system adds a new computer.

* **5.2.1.2. Update Computer(HS.UC)**

The user logging into the system updates an existing computer.

* **5.2.1.3 Connect Computer(HS.CC)**

The user logging into the system connects to an existing computer.

* **5.2.1.4 Menu Button(HS.M)**

The user who wants to use the menu, click the menu button.

* **5.2.1.5 Display Performance(HS.DP)**

Shows the current computer's performance..

* **5.2.1.6 Display Disk(HS.DD)**

Shows the current computer's disk.

* **5.2.1.7 Display Connection(HS.DC)**

Shows the current computer's connection.

* **5.2.1.8 Display RAM(HS.DR)**

Shows the current computer's RAM.

* **5.2.1.9 Switch Payment Button(HS.S.PS)**

Allows the user to switch to the payment screen

* **5.2.1.10 Switch Files Button(HS.S.FS)**

Allows the user to switch to the files screen

* **5.2.1.11 Switch Settings Button(HS.S.SS)**

Allows the user to switch to the settings screen

**5.2.2 Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| HS.AC.01 |  | M | Select “Add Computer” button. After selecting, Add panel will be displayed. |
| HS.UC.01 |  | M | Select “Update Computer” button. After selecting, Update panel will be displayed. |
| HS.CC.01 |  | M | Select “Connect Computer” button.  After selecting, Virtual Machine will be displayed. |
| HS.M.01 |  | M | Select “Connect Computer” button.  After selecting, Menu will be displayed. |
| HS.DP.01 |  | L | Displays Performance features. |
| HS.DD.01 |  | L | Displays Disk Storage. |
| HS.DC.01 |  | L | Displays Connection Status. |
| HS.DR.01 |  | L | Displays available RAM. |
| HS.S.PS.01 |  | M | Switches Payment page. |
| HS.S.FS.01 |  | M | Switches Files page. |
| HS.S.SS.01 |  | M | Switches Settings page. |

**5.3.1 Payments Screen**

* **5.3.1.1 Display Balance (PS.B)**

Shows the current balance of the registered user.

* **5.3.1.2 Add Balance (PS.AB)**

It allows the registered user to load balance into their account.

* **5.3.1.3 Review (PS.R)**

Shows the user's spending.

* **5.3.1.4 Menu Button(PS.M)**

The user who wants to use the menu, click the menu button.

* **5.3.1.5 Switch Home Button(PS.S.HS)**

Allows the user to switch to the home screen.

* **5.3.1.6 Switch Files Button(PS.S.FS)**

Allows the user to switch to the files screen.

* **5.3.1.7 Switch Settings Button(PS.S.SS)**

Allows the user to switch to the settings screen.

**5.3.2 Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| PS.B.01 |  | M | Shows the user's account balance. |
| PS.AB.01 |  | M | Select “Add Balance” button.  After selecting, Add balance panel will be displayed. |
| PS.R.01 |  | M | Shows the user's spending. |
| PS.M.01 |  | M | Select “Connect Computer” button.  After selecting, Menu will be displayed. |
| PS.DP.01 |  | L | Displays Performance features. |
| PS.S.HS.01 |  | M | Switches Home page. |
| PS.S.FS.01 |  | M | Switches Files page. |
| PS.S.SS.01 |  | M | Switches Settings page |

**5.4.1 Files Screen**

* **5.4.1.1 Menu Button(FS.M)**

The user who wants to use the menu, click the menu button.

* **5.4.1.2 Switch Home Button(FS.S.HS)**

Allows the user to switch to the home screen.

* **5.4.1.3 Switch Files Button(FS.S.PS)**

Allows the user to switch to the files screen.

* **5.4.1.4 Switch Settings Button(FS.S.SS)**

Allows the user to switch to the settings screen.

* **5.4.1.5 Display My Images(FS.MI)**

Shows how much space the saved images take up.

* **5.4.1.6 Display My Documents(FS.MD)**

Shows how much space the saved documents take up.

**5.4.2 Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| FS.M.01 |  | M | Shows the menu bar. |
| FS.S.HS.01 |  | M | Switches Home Page |
| FS.S.PS.01 |  | M | Switches Payment Page |
| FS.S.SS.01 |  | M | Switches Settings page |
| FS.MI.01 |  | M | Displays how much space the saved images take up. |
| FS.MD.01 |  | M | Displays how much space the saved documents take up. |

**5.5.1 Settings Screen**

* **5.5.1.1 Menu Button(SS.M)**

The user who wants to use the menu, click the menu button.

* **5.5.1.2 Switch Home Button(SS.S.HS)**

Allows the user to switch to the home screen.

* **5.5.1.3 Switch Payment Button(SS.S.PS)**

The user who wants to use the menu, click the menu button.

* **5.5.1.4 Switch Files Button(SS.S.FS)**

Allows the user to switch to the files screen.

**5.5.2 Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| SS.M.01 |  | L | Open menu bar |
| SS.S.HS.01 |  | M | Switches Home Page |
| SS.S.PS.01 |  | M | Switches Payment Page |
| SS.S.FS.01 |  | M | Switches Files page |

**6.** **DETAILED TEST CASES**

* **6.1 OS.LG.01**

|  |  |
| --- | --- |
| **TC\_ID** | OS.LG.01 |
| **Purpose** | Login to the system with a registered user. |
| **Priority** | H |
| **Estimated Time Needed** | 2 Minutes |
| **Dependency** | Selecting “Login” Button. |
| **Setup** | "Login” button is scripted. |
| **Procedure** | A[01] Required information is entered.  V[01] “Login” Button should be visible. |
| **Cleanup** | Exit the application. |

* **6.2 OS.SLG.01**

|  |  |
| --- | --- |
| **TC\_ID** | OS.SLG.01 |
| **Purpose** | Login with Social Media platforms. |
| **Priority** | H |
| **Estimated Time Needed** | 2 Minutes |
| **Dependency** | Selecting “ Social Media Login” Button. |
| **Setup** | - |
| **Procedure** | A[01] The user connects her social media account to the application and logs in. |
| **Cleanup** | Exit the application. |

* **6.3 OS.RG.01**

|  |  |
| --- | --- |
| **TC\_ID** | OS.RG.01 |
| **Purpose** | The user registers. |
| **Priority** | H |
| **Estimated Time Needed** | 2 Minutes |
| **Dependency** | Selecting “ Register” button. |
| **Setup** | “Register” button is scripted. |
| **Procedure** | A[01] The user enters the required information.  V[01] “Register” Button should be visible. |
| **Cleanup** | Exit the application. |

* **6.4 HS.AC.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.AC.01 |
| **Purpose** | The user adds a new computer. |
| **Priority** | M |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Selecting “ Add Computer” button. |
| **Setup** | “Add Computer” button is scripted. |
| **Procedure** | A[01] User clicks the add computer button  V[01] The user chooses a computer with the features she wants and defines this computer for her own account. |
| **Cleanup** | Go back previous page. |

* **6.5 HS.UC.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.UC.01 |
| **Purpose** | The user changes the properties of a registered computer. |
| **Priority** | M |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Selecting “ Update Computer” button. |
| **Setup** | “Update Computer” button is scripted. |
| **Procedure** | A[01] User clicks the “Update Computer” button  V[01] The user selects and changes the features of the computer that they want to change. |
| **Cleanup** | Go back previous page. |

* **6.6 HS.CC.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.CC.01 |
| **Purpose** | The user connects to a computer registered to own account. |
| **Priority** | M |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Selecting “Connect Computer” button. |
| **Setup** | “Connect Computer” button is scripted. |
| **Procedure** | A[01] User clicks the “Connect Computer” button  V[01] The user connects to own virtual device. |
| **Cleanup** | Go back previous page. |

* **6.7 HS.M.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.M.01 |
| **Purpose** | The user opens the menu bar. |
| **Priority** | M |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Selecting “Menu” button. |
| **Setup** | “Menu” button is scripted. |
| **Procedure** | A[01] User clicks the “Menu” button  V[01] Opens the menu bar. |
| **Cleanup** | Go back previous page. |

* **6.8 HS.DP.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.DP.01 |
| **Purpose** | The user sees the status of his computer's performance feature |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Home Screen should be started. |
| **Setup** | Computer’s feautures should be loaded the application. |
| **Procedure** | V[01] Displays computer’s performance. |
| **Cleanup** | Exit |

* **6.9 HS.DD.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.DD.01 |
| **Purpose** | The User sees disk storage |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Home Screen should be started. |
| **Setup** | Disk storage values should be loaded the application. |
| **Procedure** | V[01] Displays Disk storage. |
| **Cleanup** | Exit |

* **6.10 HS.DC.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.DC.01 |
| **Purpose** | The user sees the connection status. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Home Screen should be started. |
| **Setup** | Connection status should be loaded the application. |
| **Procedure** | V[01] Displays connection status. |
| **Cleanup** | Exit |

* **6.11 HS.DR.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.DR.01 |
| **Purpose** | The user sees RAM of the computer. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Home Screen should be started. |
| **Setup** | RAM of the computer should be loaded the application. |
| **Procedure** | V[01] Displays computer’s RAM. |
| **Cleanup** | Exit |

* **6.12 HS.S.PS.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.S.PS.01 |
| **Purpose** | The user switches to the Payment page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Home Screen should be started. Selecting “ Payment Page” button. |
| **Setup** | “Payment Page” button is scripted. |
| **Procedure** | A[01] Home Screen should be started. Selecting “ Payment Page” button.  V[01] User enters Payment page. |
| **Cleanup** | Exit |

* **6.13 HS.S.FS.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.S.FS.01 |
| **Purpose** | The user switches to the Files page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Home Screen should be started. Selecting “ Files Page” button. |
| **Setup** | “Files Page” button is scripted. |
| **Procedure** | A[01] Home Screen should be started. Selecting “Files Page” button.  V[01] User enters Files page. |
| **Cleanup** | Exit |

* **6.14 HS.S.SS.01**

|  |  |
| --- | --- |
| **TC\_ID** | HS.S.SS.01 |
| **Purpose** | The user switches to the Settings page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Home Screen should be started. Selecting “Settings” button. |
| **Setup** | “Settings” button is scripted. |
| **Procedure** | A[01] Home Screen should be started. Selecting “Settings Page” button.  V[01] User enters Settings page. |
| **Cleanup** | Exit |

* **6.15 PS.B.01**

|  |  |
| --- | --- |
| **TC\_ID** | PS.B.01 |
| **Purpose** | Shows the user's account balance. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Payment screen should be started. |
| **Setup** | Acount Balance should be loaded the application. |
| **Procedure** | A[01] Display Account balance |
| **Cleanup** | Exit |

* **6.16 PS.AB.01**

|  |  |
| --- | --- |
| **TC\_ID** | PS.AB.01 |
| **Purpose** | User add balance to user account. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Add Balance” Button is scripted. |
| **Setup** | “Settings” button is scripted. |
| **Procedure** | A[01] Selecting “Settings Page” button.  V[01] Userr add balance. |
| **Cleanup** | Exit |

* **6.17 PS.B.01**

|  |  |
| --- | --- |
| **TC\_ID** | PS.R.01 |
| **Purpose** | The user sees their monthly expenses. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Payment screen should be started. |
| **Setup** | Monthly Expenses should be loaded the aplication. |
| **Procedure** | A[01] Display Monthly Expenses. |
| **Cleanup** | Exit |

* **6.18 PS.S.HS.01**

|  |  |
| --- | --- |
| **TC\_ID** | PS.S.HS.01 |
| **Purpose** | The user switches to the Home page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Payment Screen should be started. Selecting “Home Page” button. |
| **Setup** | “Files Page” button is scripted. |
| **Procedure** | A[01] Payment Screen should be started. Selecting “ Home Page” button.  V[01] User enters Home page. |
| **Cleanup** | Exit |

* **6.19 PS.S.FS.01**

|  |  |
| --- | --- |
| **TC\_ID** | PS.S.FS.01 |
| **Purpose** | The user switches to the Files page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Payment Screen should be started. Selecting “ Files Page” button. |
| **Setup** | “Files Page” button is scripted. |
| **Procedure** | A[01] Payment e Screen should be started. Selecting “Files Page” button.  V[01] User enters Files page. |
| **Cleanup** | Exit |

* **6.20 PS.S.SS.01**

|  |  |
| --- | --- |
| **TC\_ID** | PS.S.SS.01 |
| **Purpose** | The user switches to the Settings page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Payment Screen should be started. Selecting “Settings” button. |
| **Setup** | “Settings” button is scripted. |
| **Procedure** | A[01] Payment Screen should be started. Selecting “Settings Page” button.  V[01] User enters Settings page. |
| **Cleanup** | Exit |

* **6.21 FS.S.HS.01**

|  |  |
| --- | --- |
| **TC\_ID** | FS.S.HS.01 |
| **Purpose** | The user switches to the Home page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Files Screen should be started. Selecting “Home Page” button. |
| **Setup** | “Home Page” button is scripted. |
| **Procedure** | A[01] Home Screen should be started. Selecting “ Home Page” button.  V[01] User enters Home page. |
| **Cleanup** | Exit |

* **6.22 FS.S.PS.01**

|  |  |
| --- | --- |
| **TC\_ID** | FS.S.PS.01 |
| **Purpose** | The user switches to the Payment page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Home Screen should be started. Selecting “ Payment Page” button. |
| **Setup** | “Files Page” button is scripted. |
| **Procedure** | A[01] Home Screen should be started. Selecting “Payment Page” button.  V[01] User enters Payment page. |
| **Cleanup** | Exit |

* **6.23 FS.S.SS.01**

|  |  |
| --- | --- |
| **TC\_ID** | FS.S.SS.01 |
| **Purpose** | The user switches to the Settings page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Files Screen should be started. Selecting “Settings” button. |
| **Setup** | “Settings” button is scripted. |
| **Procedure** | A[01] Files Screen should be started. Selecting “Settings Page” button.  V[01] User enters Settings page. |
| **Cleanup** | Exit |

* **6.24 FS.MI.01**

|  |  |
| --- | --- |
| **TC\_ID** | FS.MI.01 |
| **Purpose** | Displays how much space the saved images take up. |
| **Priority** | M |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Files Screen should be started. |
| **Setup** | Images should be loaded the application. |
| **Procedure** | A[01] Files Screen should be started.  V[01] Displays images storage. |
| **Cleanup** | Exit |

* **6.25 PS.S.HS.01**

|  |  |
| --- | --- |
| **TC\_ID** | FS.MD.01 |
| **Purpose** | Displays how much space the saved documents take up. |
| **Priority** | M |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Files Screen should be started. Selecting “Settings” button. |
| **Setup** | Documents should be loaded the application. |
| **Procedure** | A[01] Files Screen should be started.  V[01] Displays documents storage. |
| **Cleanup** | Exit |

* **6.26 SS.M.01**

|  |  |
| --- | --- |
| **TC\_ID** | SS.M.01 |
| **Purpose** | The user opens the menu bar. |
| **Priority** | M |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Selecting “Menu” button. |
| **Setup** | “Menu” button is scripted. |
| **Procedure** | A[01] User clicks the “Menu” button  V[01] Opens the menu bar. |
| **Cleanup** | Go back previous page. |

* **6.27 SS.S.HS**

|  |  |
| --- | --- |
| **TC\_ID** | SS.S.HS.01 |
| **Purpose** | The user switches to the Home page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Settings Screen should be started. Selecting “Home Page” button. |
| **Setup** | “Files Page” button is scripted. |
| **Procedure** | A[01] Settings Screen should be started. Selecting “ Home Page” button.  V[01] User enters Home page. |
| **Cleanup** | Exit |

* **6.28 SS.S.FS.01**

|  |  |
| --- | --- |
| **TC\_ID** | SS.S.FS.01 |
| **Purpose** | The user switches to the Files page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Settings Screen should be started. Selecting “ Files Page” button. |
| **Setup** | “Files Page” button is scripted. |
| **Procedure** | A[01] Settings e Screen should be started. Selecting “Files Page” button.  V[01] User enters Files page. |
| **Cleanup** | Exit |

* **6.29 SS.S.PS.01**

|  |  |
| --- | --- |
| **TC\_ID** | SS.S.PS.01 |
| **Purpose** | The user switches to the Payment page. |
| **Priority** | L |
| **Estimated Time Needed** | 1 Minutes |
| **Dependency** | Settings Screen should be started. Selecting “Payment” button. |
| **Setup** | “Settings” button is scripted. |
| **Procedure** | A[01] Settings Screen should be started. Selecting “Payment Page” button.  V[01] User enters Payment page. |
| **Cleanup** | Exit |