



**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

MOBILE SCHOOL MANAGEMENT SYSTEM

*Furkan Türkmen - 201511064
Burak Emrullah Güneş - 201611026
Oğuz Gül - 201411025
Murat Şanlısavaş - 201011302*

Advisor: *Murat SARAN*

Table of Contents

1. INTRODUCTION	1
1.1 Version Control	1
1.2 Overview	1
1.3 Scope	1
1.4 Terminology	
2. FEATURES TO BE TESTED	2
2.1 User Type (UT)	2
2.2 Login (LG)	
2.3 User Function(UF)	2
3. FEATURES NOT TO BE TESTED	2
4. ITEM PASS/FAIL CRITERIA	2
4.1 Exit Criteria	2
5. REFERENCES	2
6. TEST DESIGN SPECIFICATIONS	3
6.1 User Type (UT)	3
6.1.1 Subfeatures to be tested	3
6.1.2 Test Cases	3
6.2 Login Page (LP)	4
6.2.1 Subfeatures to be tested	4
6.2.2 Test Cases	4
6.3 User Function(UF)	5
6.3.1 Subfeatures to be tested	5
6.3.2 Test Cases	5
6.4.1 Message Page(UF.SM)	5
6.4.1.1 Subfeatures to be tested	5
6.4.2 Test Cases	5
6.5.1 Send Message Page(UF.SM)	6
6.5.1 Subfeatures to be tested	6
6.5.2 Test Cases	6
6.6.1 List Message (UF.SM)	6
6.6.2 Test Cases	6
6.7.1 Send Feedback Message (UF.SFB)	7
6.7.2 Test Cases	7
6.8.1 List Feedback Message (UF.LFB)	7
6.8.2 Test Cases	7
6.9.1 List News Page (UF.LN)	8
6.9.2 Test Cases	8
7. Detailed Test Cases	9
7.1 UT.US.01	9
7.2 UT.US.02	10
7.3 LP.LG.01	11
7.4 LP.LG.02	12
7.5 LP.LG.03	13
7.6 UF.UFP.01	14
7.7 UF.SM.01	15
7.8 UF.LM.01	15
7.9 UF.SFB.01	16
7.10 UF.LFB.01	17
7.11 UF.LN.01	17

1. INTRODUCTION

1.1 Version Control

Version No	Description of Changes	Date
1.0	First Version	April 13, 2021

1.2 Overview

In this document, the purpose is to test the functions of the Mobile School Management System according to the SRS and SDD files that were uploaded in the past.

1.3 Scope

This test document has cases for User Type Choice, Login, User Home Functions Page. Each of these functions will be tested in this document.

1.4 Terminology

Acronym	Definition
UT	User Type
LG	Login
UF	User Functions
UFP	User Functions Page
US	User
LP	Login Page

2. FEATURES TO BE TESTED

2.1 User Type (UT)

This feature allows you to select the user type before logging in to the system.

2.2 Login (LG)

This feature is used by the “admin” or “user” types of users in order to enter the platform to use further features of the system.

2.3 User Functions (UF)

In this feature, the functions that the user types have will be tested.

3. FEATURES NOT TO BE TESTED

The inputs and outputs of data such as grade, absenteeism and period of users in the system will not be tested because these data will be taken directly from the system of the school affiliated to the ministry.

4. ITEM PASS/FAIL CRITERIA

If an item is functioning the way it is described in SRS and SDD, then the item passes the test case; else the item fails. There might be some further time or performance constraints for certain items which are going to be explained further.

4.1 Exit Criteria

If all the High and Medium priority cases are passed the product is considered to be successful.

5. REFERENCES

- [1] SRS
- [2] SDD

6. TEST DESIGN SPECIFICATIONS

6.1 User Type (UT)

6.1.1 Subfeatures to be tested

6.1.1.1 User(UT.US)

The user selects the user type from the application.

6.1.2 Test Cases

TC ID	Requirements	Priority	Result	Scenario Description
UT.US.01	3.1	H	Pass	On the user type page, select the user type, and then select the next homepage on the mobile system.
UT.US.02	3.1	H	Pass	If the user chooses a different user type other than his or her role and wants to log in, the login fails.

6.2 Login Page (LP)

6.2.1 Subfeatures to be tested

6.2.1.1 Login(LP.LG)

This page has email and password testing and then next to user function main page

6.2.2 Test Cases

TC ID	Requirements	Priority	Result	Scenario Description
LP.LG.01	3.2	H	Pass	Enter a valid user email and password and then next to the open user functions page.
LP.LG.02	3.2	H	Pass	Enter email information with non-existing email in the database.
LP.LG.03	3.2	H	Pass	Enter email information with invalid email address.

6.3 User Function (UF)

6.3.1 Subfeatures to be tested

6.3.1.1 User Functions Page(UF.UFP)

This page has user's function and every function is specific function of the user's type

6.3.2 Test Cases

TC ID	Requirements	Priorit y	Result	Scenario Description
UF.UFP.0 1	3.3	H	Pass	This page has a user's function and every function is a specific function of the user's type and the functions are tested in each other function and then next to open a specific function page in the mobile system.

6.4.1 Message Page(UF.SM)

6.4.1.1 Subfeatures to be tested

This page is for sending and listing messages

6.4.2 Test Cases

TC ID	Requirements	Priorit y	Result	Scenario Description
UF.MP.01	3.3	H	Pass	This page has a user's function and every function is a specific function of the user's type and the functions are tested in each other function and then next to open a specific function page in the mobile system.

6.5.1 SendMessage Page(UF.SM)

6.5.1.1 Subfeatures to be tested

This page sends a message to the user selected receiver

6.5.2 Test Cases

TC ID	Requirements	Priority	Result	Scenario Description
UF.SM.01	3.3	H	Pass	A message is sent to the selected person on this page.

6.6.1 ListMessage Page(UF.SM)

This page lists the users own messages

6.6.2 Test Cases

TC ID	Requirements	Priority	Result	Scenario Description
UF.LM.01	3.3	H	Pass	All messages belonging to the user are listed.

6.7.1 SendFeedBackPage(UF.SFB)

This page is for sending feedback to the selected user

6.7.2 Test Cases

TC ID	Requirements	Priorit y	Result	Scenario Description
UF.SFB.O 1	3.3	H	Pass	users can send and receive mutual feedback.

6.8.1 ListFeedBack Page(UF.LFB)

This page lists the users own feedbacks

6.8.2 Test Cases

TC ID	Requirements	Priorit y	Result	Scenario Description
UF.LFB.O 1	3.3	H	Pass	Received feedback is listed.

6.9.1 ListNews Page(UF.LN)

This page is for all users. It lists all of the schools news

6.9.2 Test Cases

TC ID	Requirements	Priorit y	Result	Scenario Description
UF.LN.01	3.3	H	Pass	News belonging to the registered institution are listed.

7. Detailed Test Cases

7.1 UT.US.01

TC_ID	UT.US.01
Purpose	Select right user type
Requirements	3.1
Priority	High.
Result	Pass
Estimated Time Needed	1 Minutes
Dependency	Select User's type cases should pass
Setup	Login Page should be activated
Procedure	[A01] Go to user's type page.
	[A02] Enter a valid user email.
	[A03] Enter the valid password for this user
	[A04] Click on the "Login" button.
	[Vo1] Observe that the login is successful and the user's function main page appears
	-
Cleanup	Logout

7.2 UT.US.02

TC_ID	UT.US.02
Purpose	select wrong user type
Requirements	3.1
Priority	High.
Result	Pass
Estimated Time Needed	1 Minutes
Dependency	Select User's type cases should pass
Setup	Login Page shouldn't be activated
Procedure	[A01] Go to user's type page.
	[A02] Enter a valid user email.
	[A03] Enter the valid password for this user
	[A04] Click on the "Login" button.
	[Vo1] Observe that the login is not successful
	-
Cleanup	Logout

7.3 LP.LG.01

TC_ID	LP.LG.01
Purpose	Enter a valid user email and password
Requirements	3.2
Priority	High.
Result	Pass
Estimated Time Needed	1 Minutes
Dependency	Enter a valid user email and password
Setup	User's function main page should be activated.
Procedure	[A01] Go to login page.
	[A02] Enter a valid user email.
	[A03] Enter the valid password for this user
	[A04] Click on the "Login" button.
	[Vo1] Observe that the login is successful and the user's function main page appears
	-
Cleanup	Logout

7.4 LP.LG.02

TC_ID	LP.LG.02
Purpose	Enter email information with non-existing email in the database
Requirements	3.2
Priority	High.
Result	Pass
Estimated Time Needed	1 Minutes
Dependency	Enter a invalid user email and password
Setup	User's function main page shouldn't be activated.
Procedure	[A01] Go to login page.
	[A02] Enter a invalid user email.
	[A03] Enter the invalid password for this user
	[A04] Click on the "Login" button.
	[Vo1] Observe that the login is not successful
	-
Cleanup	Logout

7.5 LP.LG.03

TC_ID	LP.LG.03
Purpose	Enter email information with invalid email address.
Requirements	3.2
Priority	High.
Result	Pass
Estimated Time Needed	1 Minutes
Dependency	Enter a invalid user email and password
Setup	User's function main page shouldn't be activated.
Procedure	[A01] Go to login page.
	[A02] Enter a invalid user email.
	[A03] Enter the invalid password for this user
	[A04] Click on the "Login" button.
	[Vo1] Observe that the login is not successful
	-
Cleanup	Logout

7.6 UF.UFP.01

TC_ID	UF.UFP.01
Purpose	Classification of functions by user type.
Requirements	3.3
Priority	High.
Result	Pass
Estimated Time Needed	5 Minutes
Dependency	Lists the functions to which it belongs by user type.
Setup	User's function main page should be activated.
Procedure	[A01] Go to User's functions page.
	[A02] Select function.
	[A03] Function type page should be activated.
	[Vo1] Observe that the function type page is successful.
Cleanup	Refresh

7.7 UF.SM.01

TC_ID	UF.SM.01
Purpose	Send Message
Requirements	3.3
Priority	High.
Result	Pass
Estimated Time Needed	5 Minutes
Dependency	Sending to target person a new message.
Setup	User's function main page should be activated.
Procedure	[A01] Go to Message page.
	[A02] Select Send Message Button.
	[A03] Select target person and write your message in the text box
	[Vo1] Select Send Button and Observe that the function type page is successful.
Cleanup	Refresh

7.8 UF.LM.01

TC_ID	UF.LM.01
Purpose	Lists Messages belonging to the user
Requirements	3.3
Priority	High.
Result	Pass
Estimated Time Needed	5 Minutes
Dependency	Lists the functions to which it belongs by user type.
Setup	User's function main page should be activated.
Procedure	[A01] Go to ListMessage page.
	[A02] List with sender and receiver informations.
	[Vo1] Observe that the function type page is successful.
Cleanup	Refresh

7.9 UF.SFB.01

TC_ID	UF.SFB.01
Purpose	Sends Feedback to the selected user
Requirements	3.3
Priority	High.
Result	Pass
Estimated Time Needed	5 Minutes
Dependency	User send to feedback for any event or action.
Setup	User's function main page should be activated.
Procedure	[A01] Go to SendFeedBack page.
	[A02] Select User and write topic about Feedback.
	[A03] Function type page should be activated.
	[Vo1] Select List Button and Observe that the SendFeedback page is successful.
Cleanup	Refresh

7.10 UF.LFB.01

TC_ID	UF.LFB.01
Purpose	Lists Feedbacks belonging to the user
Requirements	3.3
Priority	High.
Result	Pass
Estimated Time Needed	5 Minutes
Dependency	List users feedback
Setup	User's function main page should be activated.
Procedure	[A01] Go to List FeedBack page.
	[A02] Lists feedback informations.
	[Vo1] Observe that the ListFeedback page is successful.
Cleanup	Refresh

7.11 UF.LN.01

TC_ID	UF.LN.01
Purpose	Lists News about the school
Requirements	3.3
Priority	High.
Result	Pass
Estimated Time Needed	5 Minutes
Dependency	Lists the users news about connected school.
Setup	User's function main page should be activated.
Procedure	[A01] Go to News page.
	[A02] List news with date and content.
	[Vo1] Observe that the ListNews page is successful.
Cleanup	Refresh