

IT314 Software Engineering

System Testing

Project: Canteen Automation System

Prepared by

Team No. 31 | Group 6

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System Testing:

Test 1: Register method

Description: User is asked to enter profile image, name, email address, password, confirm password and mobile number. Here, the name field must have non-null value, email address should be following length rule applied in test 1, password and confirm password should be following length rule applied in test 1 and both should have same value, mobile number should be numeric value with 10 digit length and profile image must be uploaded.

Accepted name length NL: NL>0

Accepted length of email address EL: [7, 32]

Accepted length of Password PL: [6, 20]

Accepted length of Confirm Password CPL: [6, 20]

Accepted Mobile number M: 999999999<M<10000000000

Profile Image != NULL

Password = Confirm Password

Test Case T1	T2	Т3	T4	T5	Т6	T7	l
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Input										
C1: NL>0	T									
C2: EL: [7, 32]	Т	F	ı							
C3: PL, CPL: [6, 12]	T		F	-	-					
C4: 999999999	Т	F	-	-	-					

M<1000000000 0							
C5:Profile Image	Т		F	-	-	-	-
C6: Pass = Cnf Pass	T	F	-	-	-	-	-
Test Case	T1	T2	Т3	T4	T5	Т6	T7
		Outp	ut				
a1: Register and Login	X						
a2: Valid Input, Password don't match		X					
a3: Invalid Input			X	X	X	X	X

Test Cases:

Name	Email	Password	Confirm Passwo	Mobile Number	Profile Image	Expected output	Actual Output	Status
Happy Foods	happyfoods@gn	qwerty123	qwerty123	9876543210	Yes	Register and Log	Register and Log	Passed
Happy Foods	happyfoods@gn	qwerty123	qwerty	9876543210	Yes	Password Must	Password Must	Passed
Happy Foods	happyfoods@gn	qwerty123	qwerty123	9876543210	No	Invalid Input	Invalid Input	Passed
Happy Foods	happyfoods@gn	qwerty123	qwerty123	123456	Yes	Invalid Input	Invalid Input	Passed
Happy Foods	happyfoods@gn	asdfg	asdfg	9876543210	No	Invalid Input	Invalid Input	Passed
Happy Foods	happy	qwerty123	qwerty123	123456	Yes	Invalid Input	Invalid Input	Passed
	happy	happy	happy	9876543210	No	Invalid Input	Invalid Input	Passed
	Happy Foods Happy Foods Happy Foods Happy Foods Happy Foods	Happy Foods happyfoods@gn Happy Foods happy	Happy Foods happyfoods@gn qwerty123 Happy Foods happyfoods@gn qwerty123 Happy Foods happyfoods@gn qwerty123 Happy Foods happyfoods@gn qwerty123 Happy Foods happyfoods@gn asdfg Happy Foods happy qwerty123	Happy Foods happyfoods@gn qwerty123 qwerty123 Happy Foods happyfoods@gn qwerty123 qwerty Happy Foods happyfoods@gn qwerty123 qwerty123 Happy Foods happyfoods@gn qwerty123 qwerty123 Happy Foods happyfoods@gn asdfg asdfg Happy Foods happy qwerty123 qwerty123	Happy Foods happyfoods@gn qwerty123 qwerty123 9876543210 Happy Foods happyfoods@gn qwerty123 qwerty 9876543210 Happy Foods happyfoods@gn qwerty123 qwerty123 9876543210 Happy Foods happyfoods@gn qwerty123 qwerty123 123456 Happy Foods happy foods@gn asdfg asdfg 9876543210 Happy Foods happy qwerty123 qwerty123	Happy Foods happyfoods@gn qwerty123 qwerty123 9876543210 Yes Happy Foods happyfoods@gn qwerty123 qwerty 9876543210 Yes Happy Foods happyfoods@gn qwerty123 qwerty123 9876543210 No Happy Foods happyfoods@gn qwerty123 qwerty123 123456 Yes Happy Foods happyfoods@gn asdfg asdfg 9876543210 No Happy Foods happy qwerty123 qwerty123 123456 Yes	Happy Foods happyfoods@gn qwerty123 qwerty123 9876543210 Yes Register and Log Happy Foods happyfoods@gn qwerty123 qwerty 9876543210 Yes Password Must happy Foods happyfoods@gn qwerty123 qwerty123 9876543210 No Invalid Input Happy Foods happyfoods@gn qwerty123 qwerty123 123456 Yes Invalid Input Happy Foods happyfoods@gn asdfg asdfg 9876543210 No Invalid Input Happy Foods happy qwerty123 qwerty123 123456 Yes Invalid Input Happy Foods happy qwerty123 qwerty123 123456 Yes Invalid Input	Happy Foods happyfoods@gn qwerty123 qwerty123 9876543210 Yes Register and Lot Register and

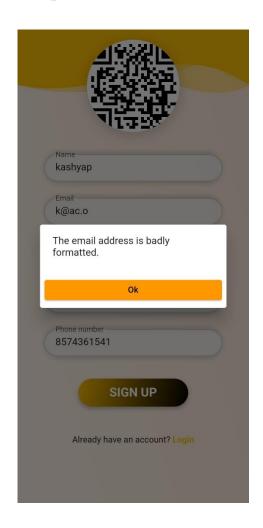
Screenshots:

(1)

Input:

Email address length is less than 6.

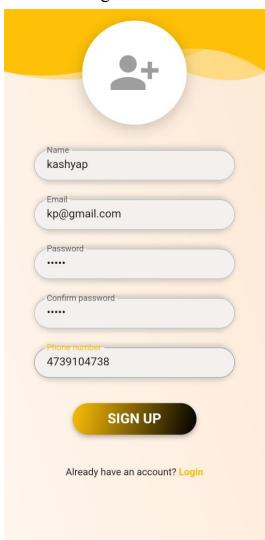


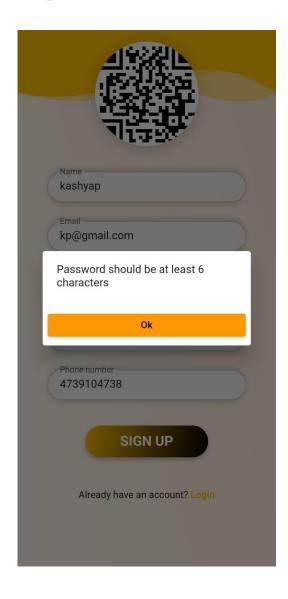


(2)

Input:

Password length is less than 6.

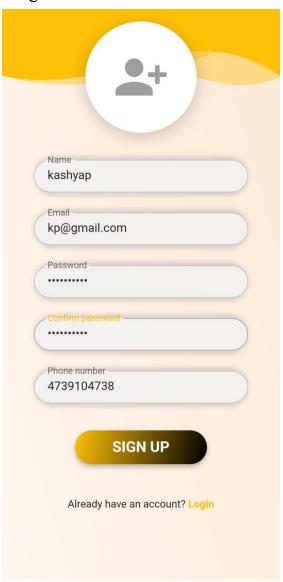


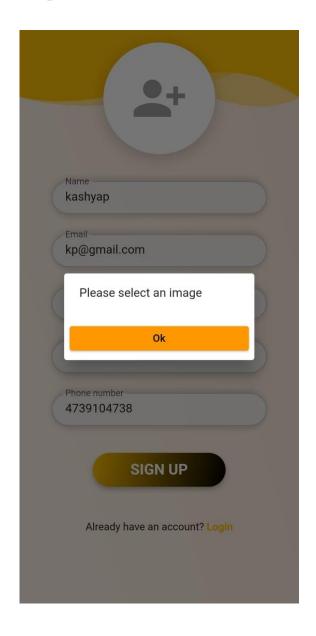


(3)

Input:

Image was not selected.

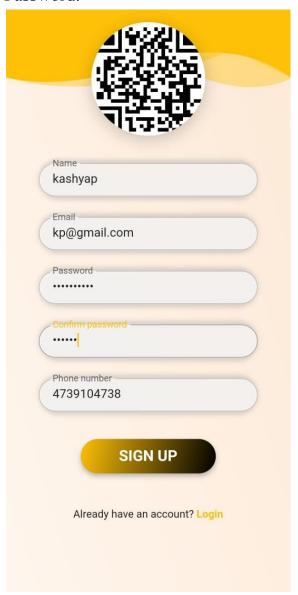


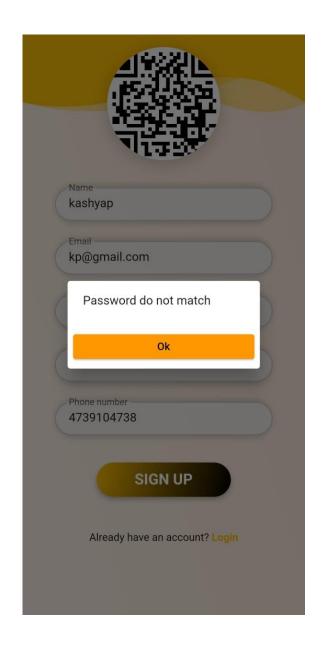


(4)

Input:

Confirm password is not equal to Password.





Test 2: Login Method

Description: Whenever a new device tries to open the app the login method is called. The method requires the user to enter a valid email address which is already registered and its password. The length of the password must be greater or equal to 6 and must ont exceed 12. Similarly, the email address' length must be greater or equal to 7 and must not exceed 32. Users will be directed to the home page if a password corresponding to email ID is entered.

Accepted length of email address EL: [7, 32] Accepted length of Password PL: [6, 20]

Decision Table:

Test Case	T1	T2	T3	T4	T5						
Input											
C1: 7≤EL≤32		TRUE		FAI	LSE						
C2: 6≤PL≤12	TR	UE	FALSE	TRUE	FALSE						
C3: Match	TRUE	FALSE	-	-	-						
	Output										
a1: Login Successful	x										
a2: Valid Input, login Failed		х									
a3: Invalid Input			X	Х	Х						

Test Cases:

No.	Email ID	Password	Expected Output	Actual Output	Status
T1	shinestar@star. com	shinestar	Login Successful	Login Successful	Passed
T2	shinestar@star. com	1234567	Login Failed	Login Failed	Passed
T3	shinestar@star. com	shi	Invalid Input	Invalid Input	Passed
T4	shine	shinestar	Invalid Input	Invalid Input	Passed
T5	123	123	Invalid Input	Invalid Input	Passed

Test 3: Add Menu method

Description: To add a new menu, the canteen owner is asked to add a feature image. No process can be done before adding a feature image. After adding the feature image, the system asks for item name and item description. Both item name and item description fields can't have null values.

Feature Image != NULL

Accepted length of Menu name NL: 0<NL<16

Accepted length of Menu description DL: 0<DL<26

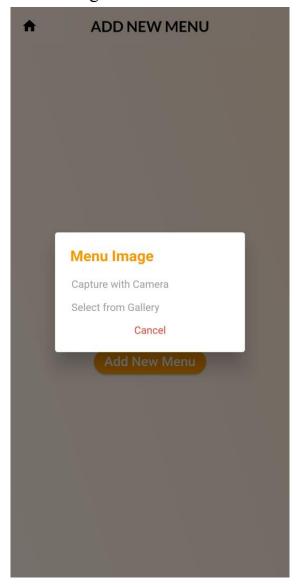
Test case	T1	T2	Т3	T4	T5	T6	T7	T8	Т9	T10	
Input											
C1: Feature Image!=NULL		TRUE FALSE TRUE									
C2: 0 <ql<16< td=""><td>TRUE</td><td></td><td>FALSE</td><td></td><td colspan="4">TRUE</td><td>NULL</td><td>FALSE</td></ql<16<>	TRUE		FALSE		TRUE				NULL	FALSE	
C3: 0 <dl<26< td=""><td></td><td>TR</td><td>UE</td><td></td><td colspan="4">FALSE</td><td></td><td>FALSE</td></dl<26<>		TR	UE		FALSE					FALSE	
				0	utput						
a1: Item added to the menu	1										
a2: Invalid Input		1	1	1	1	✓	✓	✓	/	✓	

Test Cases:

No.	Feature Image	Item name	Description	Expected output	Received Output	Status
1	Yes	drinks	xyzz	Item added	Item added	Pass
2	Yes		No name item.	Invalid input	Invalid input	Pass
3	Yes	abcdhfdfhdfsdhghg	Greater than 15 length.	Invalid input	Invalid input	Pass
4	Yes	Greater_than_15_	Greater than 15 length.	Invalid input	Invalid input	Pass
5	Yes	а		Invalid input	Invalid input	Pass
6	Yes	drinks	abcdefghijklmnop qrstuvwxyz	Invalid input	Invalid input	Pass
7	Yes	Drinks	abcdefghijklmnop qrstuvwxyz	Invalid input	Invalid input	Pass
8	Yes	abcdefghijklmno	abcdefghijklmnop qrstuvwxyz	Invalid input	Invalid input	Pass
9	No			Invalid input	Invalid input	Pass
10	Yes			Invalid input	Invalid input	Pass

Screenshots:

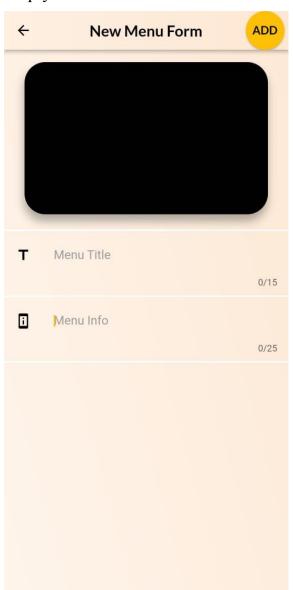
(1) First we have to insert an image.

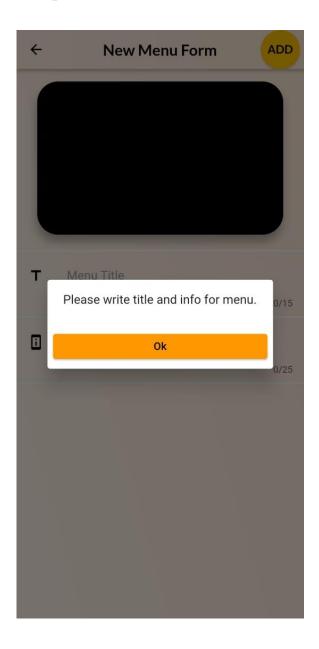


(2)

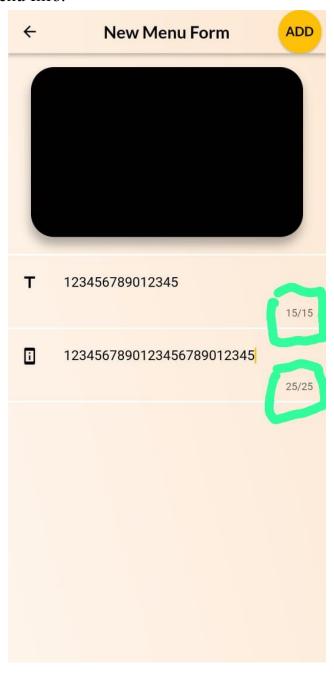
Input:

Empty Menu title and Info.





(3) We cannot insert more than 15 characters in the Menu title and more than 25 characters in the Menu Info.



Test 4: Add Item to cart

Description: To add an item to the cart, the user will be asked to select the quantity of the item that he is going to order. The range of the quantity that the user can select is 1 to 9. It means that it can not have a value that is less than or equal to zero or greater than or equal to 10.

Accepted range of the quantity of the Item(QL): 0<QL<10

Test case	T1	T2	Т3	T4	T5	T6	T7
Input							
C1: 0 <ql<10< td=""><td>FALSE</td><td>TRUE</td><td>TRUE</td><td>TRUE</td><td>FALSE</td><td>FALSE</td><td>FALSE</td></ql<10<>	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE
Output							
A1: Item added to the cart	1	1	1	1			
A2: Invalid input	1				1	√	1

Test case:

No	Quantity of the item	Description	Expected Received Output		Status
1	20	Random value greater than 10	Invalid input	Invalid input	Pass
2	6	Random value in valid range	Item added to the cart	Item added to the cart	Pass
3	1	Left most boundary value of the range	Item added to the cart	Item added to the cart	Pass
4	9	Right most boundary value of the range	Item added to the cart	Item added to the cart	Pass
5	0	Value that is just less than left most boundary	Invalid input	Invalid input	Pass
6	10	10 Value that is just greater than right most boundary		Invalid input	Pass
7	-50	Negative value	Invalid input	Invalid input	Pass

If we try to add values that are less than 1 it will automatically convert to 1 and if we try to add values that are greater than 9 it will automatically convert to 9, which means that you have to order at least one item or you can order at max 9 items.

Test 5: Add an item to the menu

Description: To add an item to the menu, the canteen owner is asked to add a feature image. No process can be done before adding a feature image. After adding the feature image, the system asks for item name and item description. Both item name and item description fields can't have null values.

Feature Image != NULL

Accepted length of Item Title TL: 0<TL<18
Accepted length of Item info IL: 0<IL<35

Accepted length of Item Description DL: 0<DL<200

Accepted length of Item Price: 0<PL<1000

Test-case			Input			Output	
	C1: Feature Image != NULL	C2: 0 <tl<18< th=""><th>C3: 0<il<35< th=""><th>C4: 0<dl<200< th=""><th>C5: 0<pl<1000< th=""><th>Item added to the menu</th><th>Invalid Input</th></pl<1000<></th></dl<200<></th></il<35<></th></tl<18<>	C3: 0 <il<35< th=""><th>C4: 0<dl<200< th=""><th>C5: 0<pl<1000< th=""><th>Item added to the menu</th><th>Invalid Input</th></pl<1000<></th></dl<200<></th></il<35<>	C4: 0 <dl<200< th=""><th>C5: 0<pl<1000< th=""><th>Item added to the menu</th><th>Invalid Input</th></pl<1000<></th></dl<200<>	C5: 0 <pl<1000< th=""><th>Item added to the menu</th><th>Invalid Input</th></pl<1000<>	Item added to the menu	Invalid Input
T1	Yes		TRUE	TRUE	FALSE	✓	
T2	Yes	TRUE	TRUE	FALSE			1
Т3	Yes		FALSE	TRUE	TRUE		✓
T4	Yes	FALSE	TRUE	IRUE	-		1
T5	Yes	TRUE	IRUE	FALSE	FALSE		✓
T6	Yes			TRUE	FALSE		✓
T7	Yes		FALSE	FALSE			1
T8	Yes			TRUE	TRUE		1
T9	Yes	FALSE	TDUE	FALSE			1
T10	Yes		TRUE	TRUE			1
T11	Yes	TRUE	FALSE		FALSE		1
T12	Yes		TRUE	FALSE			1
T13	Yes	FALSE	FALSE		TRUE		✓

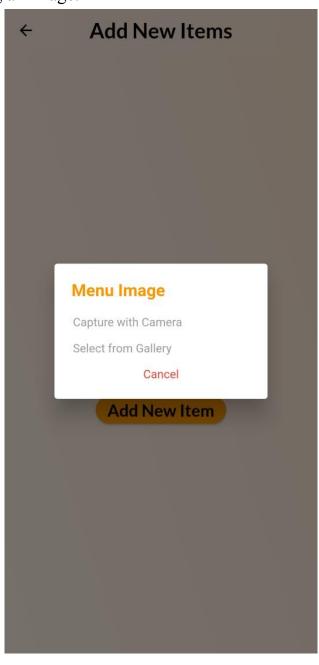
T14	Yes		TRUE	FALSE	✓
T15	No	N	✓		

Test case:

No.	Feature Image	Item name	Item Info	Item Description	Item price	Expected output	Received Output	Status
1	Yes	Jalebi	It is very delicious	good in taste	0	Item added	Item added	Pass
2	Yes	Jalebi	No description		10	Invalid input	Invalid input	Pass
3	Yes	Jalebi		No Info	10	Invalid input	Invalid input	Pass
4	Yes		No name	No name	10	Invalid input	Invalid input	Pass
5	Yes	Jalebi	It is very delicious		-1	Invalid input	Invalid input	Pass
6	Yes	Jalebi		No Info and price		Invalid input	Invalid input	Pass
7	Yes	Jalebi			10	Invalid input	Invalid input	Pass
8	Yes	abcdefghijklmn opqrstuvwxyz	abcdefghijklmnopqrst uvwxyzabcdefghijk	Name and Info greater than range	100	Invalid input	Invalid input	Pass
9	Yes	abcdefghijklmn opqrstuvwxyz	Very big name		100	Invalid input	Invalid input	Pass
10	Yes	abcdefghijklmn opqrstuvwxyz	Very big name	Very big name	1000	Invalid input	Invalid input	Pass
11	Yes	Jalebi	abcdefghijklmnopqrst uvwxyzabcdefghijk		0	Invalid input	Invalid input	Pass
12	Yes	abcdefghijklmn opqrstuvwxyz	Very big name		1000	Invalid input	Invalid input	Pass
13	Yes	abcdefghijklmn opqrstuvwxyz	abcdefghijklmnopqrst uvwxyzabcdefghijk	Very big Info and name	-10	Invalid input	Invalid input	Pass
14	Yes	abcdefghijklmn opqrstuvwxyz	abcdefghijklmnopqrst uvwxyzabcdefghijk		10	Invalid input	Invalid input	Pass
15	No	Null	Null	Null	Null	Invalid input	Invalid input	Pass

Screenshots:

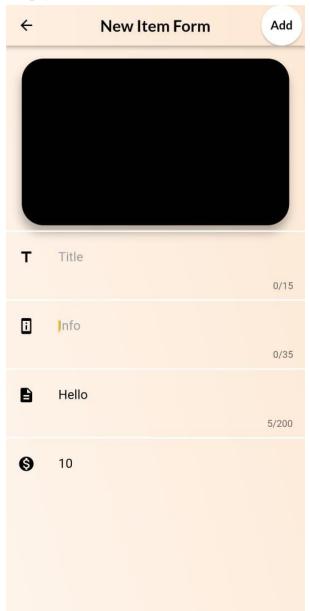
(1) First thing you have to do when adding an item is add an image. No process can be done without adding an image.

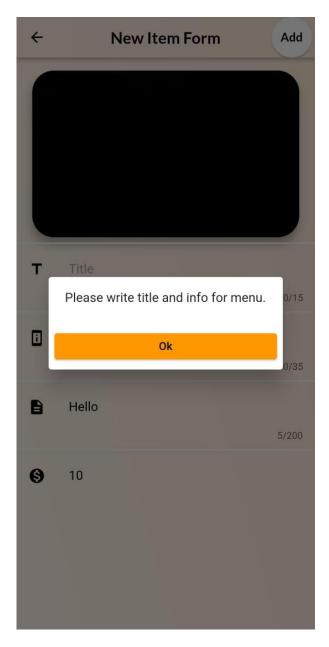


(2)

Input:

Empty Title name and Info.





(3)

Input:

Price is greater than 1000.

