



THINK2 HELPME PROJECT TEST CASES AND REQUIREMENTS TEST COVERAGE REPORT

Version 1.1
10/22/2022

VERSION HISTORY

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	<i>Li Jin Xuan</i>	<10/22/22>	< <i>Quek Xuan Hao</i> >	<10/22/22>	<Test Cases 1-7 Write Up>
1.1	<i>Li Jin Xuan, Tanya Banerjee, Ong Chun Guan Marcus</i>	<10/23/22>	< <i>Quek Xuan Hao</i> >	<10/23/22>	<Test Cases 8-10 Write Up>>

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Purpose of Document

Software testing is very important because we would like to know if the application we developed actually does what we wanted it to do, and works in the manner that was planned. Requirements Test Coverage refers to the degree to which the test cases cover the software requirements. Our test cases and the functionality they cover are listed below.

Login/Register Test Cases

Test Case ID	TC01		
Test Case Name:	Login with Verified Account		
Test Case Description:	User launches the app and login to a verified account.		
Pre-conditions:	1. User is on the login screen 2. User has a verified account		
Post-conditions:	User is logged in to the app and re-directed to the <i>Main Page</i>		
Created By:	Li Jin Xuan	Last Updated By:	Li Jin Xuan
Date Created:	22/10/2022	Last Updated:	22/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User launches the app	The system directs the user to the <i>Login</i> page.	The system directs the user to the <i>Login</i> page.
2	User logs in with an incorrect email format or an empty email field	App will display an error message 'Email is empty or email is in the wrong format!.'	App will display an error message 'Email is empty or email is in the wrong format!.'
3	User logs in with a password that is less than 6 characters or an empty password field	App will display an error message 'Password is empty or less than 6 characters!.'	App will display an error message 'Password is empty or less than 6 characters!.'
4	User enters the account's email address in the email field	The email field displays the account's email	The email field displays the account's email
5	User enters the account's password in the password	The password field displays hidden	The password field displays hidden

	field	password	password
6	User presses on the login button	The system re-directs the user to the <i>Main Page</i>	The system re-directs the user to the <i>Main Page</i>

Test Case ID	TC02		
Test Case Name:	Register for an account		
Test Case Description:	User presses on the register button on the <i>Login</i> page and fills in the respective fields to register for an account.		
Pre-conditions:	User is on the <i>Register</i> account page		
Post-conditions:	An account is created for the user and a verification email is sent to the account's email.		
Created By:	Li Jin Xuan	Last Updated By:	Li Jin Xuan
Date Created:	22/10/2022	Last Updated:	22/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User taps on the register button on the <i>Login</i> page	The system re-directs the user to the <i>Register</i> page.	The system re-directs the user to the <i>Register</i> page.
2	User registers with an incorrect email format or an empty email field	App will display an error message 'Email is empty or email is in the wrong format!.'	App will display an error message 'Email is empty or email is in the wrong format!.'
3	User registers with a password that is less than 6 characters or an empty password field	App will display an error message 'Password is empty or less than 6	App will display an error message 'Password is empty or less than 6

		characters!.'	characters!.'
4	User registers with an empty contact number field	App will display an error message 'Number is required.'	App will display an error message 'Number is required.'
5	User registers with an empty username field	App will display an error message 'Username is required!.'	App will display an error message 'Username is required!.'
6	User enters an unregistered email address, contact number, username and password to each of the fields.	Each field will be filled by the respective information	Each field will be filled by the respective information
7	User presses on the Register button	Account will be registered with Firebase authentication, account information will be saved to the Firebase database and a verification email sent to the account's email address.	Account will be registered with Firebase authentication, account information will be saved to the Firebase database and a verification email sent to the account's email address.

Test Case ID	TC03		
Test Case Name:	Reset Account Password		
Test Case Description:	User taps on the Forgot Password button on the <i>Login</i> page and fills in the account's email address to reset its' password		
Pre-conditions:	<ol style="list-style-type: none"> 1. User has a verified account 2. User forgets or wants to change the account's password 		
Post-conditions:	A password reset link will be sent to the stated email address if an account is available.		
Created By:	Li Jin Xuan	Last Updated By:	Li Jin Xuan
Date Created:	22/10/2022	Last Updated:	22/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User taps on the Forgot Password button on the <i>Login</i> page	The system re-directs the user to the <i>Forgot Password</i> page.	The system re-directs the user to the <i>Forgot Password</i> page.
2	User enters an email that does not exist and taps on the Reset Password button	Error message displayed 'Something wrong happened! Try again.'	Error message displayed 'Something wrong happened! Try again.'
3	User enters an incorrect email format	App will display an error message 'Email is empty or email is in the wrong format!.'	App will display an error message 'Email is empty or email is in the wrong format!.'
4	User enters a valid email and taps on the Reset Password button	A password reset link is sent to the stated email address	A password reset link is sent to the stated email address
5	User changes password via the link in the email	Changed password is saved in the database.	Changed password is saved in the database.

Manage Profile Test Case

Test Case ID	TC04		
Test Case Name:	Edit User Account Details		
Test Case Description:	User taps on the Edit Profile button on the <i>Profile</i> page and edit it's details		
Pre-conditions:	<ol style="list-style-type: none"> 1. User has a verified account 2. User is on the <i>Edit Profile</i> page 3. User wants to edit the account's details 		
Post-conditions:	<ol style="list-style-type: none"> 1. Profile information will be updated on both the firebase and <i>Profile</i> page 2. Verification email will be sent if email is also updated. 		
Created By:	Li Jin Xuan	Last Updated By:	Li Jin Xuan
Date Created:	22/10/2022	Last Updated:	22/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User taps on the Profile button on the <i>Main</i> page	The system re-directs the user to the <i>Profile</i> page.	The system re-directs the user to the <i>Profile</i> page.
2	User taps on the Edit Profile button on the <i>Profile</i> page	The system re-directs the user to the <i>Edit Profile</i> page.	The system re-directs the user to the <i>Edit Profile</i> page.
3	User edits the contact and username details of the account and taps on the Save button	Profile information will be updated on both the firebase and <i>Profile</i> page	App will display an error message 'Email is empty or email is in the wrong format!.'
4	User edits the email address of the account and taps on the Save button	Profile information will be updated on both the firebase and <i>Profile</i> page, a verification email will	Profile information will be updated on both the firebase and <i>Profile</i> page, a verification email will

		be sent to the updated email address	be sent to the updated email address
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Test Case ID	TC05		
Test Case Name:	Logout of User Account		
Test Case Description:	User taps on the Logout button on the <i>Profile</i> page and logs out of the app.		
Pre-conditions:	1. User has a verified account 2. User is on the <i>Profile</i> page		
Post-conditions:	The user is logged out of their account		
Created By:	Li Jin Xuan	Last Updated By:	Li Jin Xuan
Date Created:	22/10/2022	Last Updated:	22/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User taps on the Profile button on the <i>Main</i> page	The system re-directs the user to the <i>Profile</i> page.	The system re-directs the user to the <i>Profile</i> page.
2	User taps on the Logout button on the <i>Profile</i> page	The system logs the user out and re-directs the user to the <i>Login</i> page and	The system logs the user out and re-directs the user to the <i>Login</i> page and

Post Service Test Cases

Test Case ID	TC06		
Test Case Name:	Post Service (Offer/Request)		
Test Case Description:	1. User has a verified account 2. User is able to post an offer or a request of a service		
Pre-conditions:	User taps on the New Service button on the <i>Main</i> page and fills in the required fields		
Post-conditions:	A service will be successfully posted, displayed on <i>Explore/My Service</i> page and stored in the firebase database.		
Created By:	Li Jin Xuan	Last Updated By:	Li Jin Xuan
Date Created:	22/10/2022	Last Updated:	22/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User taps on the 'New Service' button to post a new service (offer/request)	The system re-directs the user to the <i>Service Form</i> page	The system re-directs the user to the <i>Service Form</i> page
2	User enters all required information (Title, Price, Description, Area, Category, Type (Offer/Request)).	All information is presented as inputted by the user on the entry form.	All information is presented as inputted by the user on the entry form.
3	User taps on the Submit button.	The service post will be stored in the firebase database and displayed on <i>Explore/My Service</i> page	The service post will be stored in the firebase database and displayed on the <i>Explore/My Service</i> page

Test Case ID	TC07		
Test Case Name:	Delete Post		
Test Case Description:	<ol style="list-style-type: none"> 1. User has a verified account 2. User is able to delete the services they have posted 		
Pre-conditions:	<ol style="list-style-type: none"> 1. User tap on the post that they have previously posted 2. User doesn't want the post to be up anymore 		
Post-conditions:	The details of the post (Service) will be deleted from the firebase database and will not be displayed on <i>Explore/My Service</i> page anymore		
Created By:	Li Jin Xuan	Last Updated By:	Li Jin Xuan
Date Created:	22/10/2022	Last Updated:	22/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User taps on the service they want it to be deleted	The system re-directs the user to the <i>Service Details</i> page of the post	The system re-directs the user to the <i>Service Details</i> page of the post
2	The Service (Offer/Request) was not posted by the user.	The Delete button will not be visible underneath the post	The Delete button will not be visible underneath the post
3	The Service (Offer/Request) was posted by the user.	A Delete button will be visible underneath the post	A Delete button will be visible underneath the post
4	User taps on the Delete button	The post will be removed from the firebase database and will not be displayed on <i>Explore/My</i>	The post will be removed from the firebase database and will not be displayed on <i>Explore/My</i>

		Service page	Service page
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List View Test Case

Test Case ID	TC08		
Test Case Name:	List View (<i>Explore/My Service Page</i>)		
Test Case Description:	<ol style="list-style-type: none"> 1. User has a verified account 2. User is on either the <i>Explore</i> or <i>My Service</i> page 		
Pre-conditions:	User goes to the <i>Explore</i> page to view all services posted of all users <i>My Service</i> page to view all services posted by the user		
Post-conditions:	Services will be displayed accordingly based on the either <i>Explore/My Service</i> page		
Created By:	Li Jin Xuan	Last Updated By:	Li Jin Xuan
Date Created:	23/10/2022	Last Updated:	23/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User taps on the Explore button on the <i>Main</i> page	The system re-directs the user to the <i>Explore</i> page and displays all the services posted by every user on the platform	The system re-directs the user to the <i>Explore</i> page and displays all the services posted by every user on the platform
2	User taps on the My Service button on the <i>Main</i> page	The system re-directs the user to the <i>My Service</i> page and displays all the services posted by the user on the platform	The system re-directs the user to the <i>My Service</i> page and displays all the services posted by the user on the platform

Test Case ID	TC09		
Test Case Name:	Filter posts		
Test Case Description:	<ol style="list-style-type: none"> 1. User has a verified account 2. User is able to filter posts based on area, category and type 		
Pre-conditions:	User goes to the <i>Explore/My Service</i> page and selects options from filters		
Post-conditions:	Services with the correct options are displayed		
Created By:	Tanya Banerjee	Last Updated By:	Li Jin Xuan
Date Created:	23/10/2022	Last Updated:	23/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User is on the <i>Explore/My Service</i> page and selects an option from the Area filter	Posts having that particular area are displayed	Posts having that particular area are displayed
2	User is on the <i>Explore/My Service</i> page and selects an option from the Category filter	Posts having that particular category are displayed	Posts having that particular category are displayed
3	User is on the <i>Explore/My Service</i> page and selects an option from the Type filter	Posts having that particular type are displayed	Posts having that particular type are displayed
4	User is on the <i>Explore/My Service</i> page and selects an option from more than 1 filter	Posts that matches the parameters of the filters are displayed	Posts that matches the parameters of the filters are displayed

Test Case ID	TC10		
Test Case Name:	Contact/Email Link		
Test Case Description:	<ol style="list-style-type: none"> 1. User has a verified account 2. User is brought to phone call application with numbers keyed in automatically 3. User is brought to default email application with email address keyed in automatically 		
Pre-conditions:	User goes to the <i>Explore/My Service</i> page, selects a specific service ,and selects contact number or email address		
Post-conditions:	User automatically brought to default email or phone call application with email address or contact number filled.		
Created By:	Ong Chun Guan Marcus	Last Updated By:	Ong Chun Guan Marcus
Date Created:	23/10/2022	Last Updated:	23/10/2022

Test Case No.	Description	Expected Outcome	Actual Output
1	User is on a specific <i>service detail</i> page and selects the contact number	User is brought to phone call application with numbers keyed in automatically	User is brought to phone call application with numbers keyed in automatically
2	User is on a specific <i>service detail</i> page and selects the email address	User is brought to default email application with email address keyed in automatically	User is brought to default email application with email address keyed in automatically