

#### 4.2.1 Module 1: Basics

Following are Tabular Use Cases for Module 1

**Table 1: Sign up (Mobile).**

<b>Use Case ID:</b>	M1-UC1
<b>Use Case Name:</b>	Sign up (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to create account for SCM.
<b>Trigger:</b>	Click on the “Sign up” button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1. User has Valid Email.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click on Sign up Button</li><li>2. User will enter email</li><li>3. User will enter password</li><li>4. User will confirm password</li><li>5. User’s Email will be verified via OTP</li><li>6. User will enter OTP received on email</li><li>7. User will add profile information</li><li>8. User will click continue to save data</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If email is invalid user will see a prompt message “Enter Valid Email”</li><li>2. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”</li><li>3. User enters invalid OTP “Prompt Message saying Enter Valid OTP”</li></ol>
<b>Postconditions:</b>	POST-1. User will be registered
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an email and can speak English

**Table 2: Sign up (Web).**

<b>Use Case ID:</b>	M1-UC2
<b>Use Case Name:</b>	Sign up (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to create account for SCM.
<b>Trigger:</b>	Click on the “Sign up” button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1. User has Valid Email.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on Sign up Button</li> <li>2. User will enter email</li> <li>3. User will enter password</li> <li>4. User will confirm password</li> <li>5. User’s Email will be verified via OTP</li> <li>6. User will enter OTP received on email</li> <li>7. User will add profile information</li> <li>8. User will click continue to save data</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If email is invalid user will see a prompt message “Enter Valid Email”</li> <li>2. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”</li> <li>3. User enters invalid OTP “Prompt Message saying Enter Valid OTP”</li> </ol>
<b>Postconditions:</b>	POST-1. User will be registered
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an email and can speak English

**Table 3: Log in (Mobile).**

<b>Use Case ID:</b>	M1-UC3
<b>Use Case Name:</b>	Log in (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to login into SCM account.
<b>Trigger:</b>	Click on the “Log in” button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1. User has Created Account.
<b>Includes:</b>	M1-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click on Log in Button</li><li>2. User will enter email</li><li>3. User will enter password</li><li>4. User will click Login to continue</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If email is invalid user will see a prompt message “Enter Valid Email”</li><li>2. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”</li><li>3. User email and password does not match the records “Invalid Email or Password’ will prompt.</li></ol>
<b>Postconditions:</b>	POST-1. User will be Logged in.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an email and can speak English

**Table 4: Log in (Web).**

<b>Use Case ID:</b>	M1-UC4
<b>Use Case Name:</b>	Log in (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to login into SCM account.
<b>Trigger:</b>	Click on the “Log in” button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1. User has Created Account.
<b>Includes:</b>	M1-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on Log in Button</li> <li>2. User will enter email</li> <li>3. User will enter password</li> <li>4. User will click Login to continue</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>4. If email is invalid user will see a prompt message “Enter Valid Email”</li> <li>5. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”</li> <li>6. User email and password does not match the records “Invalid Email or Password’ will prompt.</li> </ol>
<b>Postconditions:</b>	POST-1. User will be Logged in.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an email and can speak English

**Table 5: Forget Password (Mobile).**

<b>Use Case ID:</b>	M1-UC5
<b>Use Case Name:</b>	Forget Password (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to login into SCM account after setting new password.
<b>Trigger:</b>	Click on the “Forget Password” button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1. User has Created Account.
<b>Includes:</b>	M1-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on ‘Forget Password’ Button</li> <li>2. User will enter email</li> <li>3. OTP will be sent to User’s email</li> <li>4. User will OTP</li> <li>5. User will enter new password</li> <li>6. User will confirm password</li> <li>7. User will click Confirm to continue</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If email is invalid user will see a prompt message “Enter Valid Email”</li> <li>2. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”</li> </ol>
<b>Postconditions:</b>	POST-1. User’s password will be updated
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an email and can speak English

**Table 6: Forget Password (Web).**

<b>Use Case ID:</b>	M1-UC6
<b>Use Case Name:</b>	Forget Password (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to login into SCM account after setting new password.
<b>Trigger:</b>	Click on the “Forget Password” button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1. User has Created Account.
<b>Includes:</b>	M1-UC2
<b>Normal Flow:</b>	8. User will click on ‘Forget Password’ Button 9. User will enter email 10. OTP will be sent to User’s email 11. User will OTP 12. User will enter new password 13. User will confirm password 14. User will click Confirm to continue
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	3. If email is invalid user will see a prompt message “Enter Valid Email” 4. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”
<b>Postconditions:</b>	POST-1. User’s password will be updated
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an email and can speak English

**Table 7: Update Profile (Mobile).**

<b>Use Case ID:</b>	M1-UC7
<b>Use Case Name:</b>	Update Profile (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to change profile info.
<b>Trigger:</b>	Click on the “Update Profile” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has Created Account.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click on ‘Update Profile’ Button</li><li>2. User will change the fields to be updated</li><li>3. User will click Confirm to continue</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If email is invalid user will see a prompt message “Enter Valid Email”</li><li>2. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”</li></ol>
<b>Postconditions:</b>	POST-1. User’s profile info will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an email and can speak English

**Table 8: Update Profile (Web).**

<b>Use Case ID:</b>	M1-UC8
<b>Use Case Name:</b>	Update Profile (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to change profile info.
<b>Trigger:</b>	Click on the “Update Profile” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has Created Account.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click on ‘Update Profile’ Button</li><li>2. User will change the fields to be updated</li><li>3. User will click Confirm to continue</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If email is invalid user will see a prompt message “Enter Valid Email”</li><li>2. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”</li></ol>
<b>Postconditions:</b>	POST-1. User’s profile info will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an email and can speak English



**Table 9: Profile Privacy (Mobile).**

<b>Use Case ID:</b>	M1-UC9
<b>Use Case Name:</b>	Profile Privacy (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to change profile privacy.
<b>Trigger:</b>	Click on the “Profile Privacy” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has Created Account.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on ‘Profile Privacy’ Button</li> <li>2. User will see dropdown ahead of each profile info</li> <li>3. User may select public or private.</li> <li>4. The privacy of such field will be updated on dropdown change</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User’s profile privacy will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has knowledge about privacy meanings.

**Table 10: Profile Privacy (Web).**

<b>Use Case ID:</b>	M1-UC10
<b>Use Case Name:</b>	Profile Privacy (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to change profile privacy.
<b>Trigger:</b>	Click on the “Profile Privacy” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has Created Account.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on ‘Profile Privacy’ Button</li> <li>2. User will see dropdown ahead of each profile info</li> <li>3. User may select public or private.</li> <li>4. The privacy of such field will be updated on dropdown change</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User’s profile privacy will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has knowledge about privacy meanings.

**Table 11: Help & Support.**

<b>Use Case ID:</b>	M1-UC11
<b>Use Case Name:</b>	Help & Support
<b>Actors:</b>	Primary Actor: User Secondary Actor: SCM
<b>Description:</b>	User will be able to get help from SCM.
<b>Trigger:</b>	Click on the “Help & Support” button
<b>Level:</b>	Low
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click on ‘Help Support’ Button</li><li>2. User will be redirected to a webpage with help menu</li><li>3. User will navigate in help page as per requirement</li><li>4. If User does not find help, user may email at email provided in footer of help page</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User’s profile privacy will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has knowledge about privacy meanings.

**Table 12: Remove Account (Mobile).**

<b>Use Case ID:</b>	M1-UC12
<b>Use Case Name:</b>	Remove Account (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Remove Account.
<b>Trigger:</b>	Click on the “Delete Account” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1: User has created account.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on ‘Delete Account’ Button</li> <li>2. OTP will be sent user’s email.</li> <li>3. User will enter OTP from email.</li> <li>4. User will enter Password</li> <li>5. User will confirm account deletion.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”</li> <li>2. User enters invalid OTP “Prompt Message saying Enter Valid OTP”</li> </ol>
<b>Postconditions:</b>	POST-1. User’s profile will be removed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	<p>User has knowledge about account removal.</p> <p>User knows that the process is irreversible.</p>

**Table 13: Remove Account (Web).**

<b>Use Case ID:</b>	M1-UC13
<b>Use Case Name:</b>	Remove Account (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Remove Account.
<b>Trigger:</b>	Click on the “Delete Account” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1: User has created account.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on ‘Delete Account’ Button</li> <li>2. OTP will be sent user’s email.</li> <li>3. User will enter OTP from email.</li> <li>4. User will enter Password</li> <li>5. User will confirm account deletion.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>3. If password does not meet minimum requirements “Password must have minimum 8 characters, digits, alphabet and special character”</li> <li>4. User enters invalid OTP “Prompt Message saying Enter Valid OTP”</li> </ol>
<b>Postconditions:</b>	POST-1. User’s profile will be removed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	<p>User has knowledge about account removal.</p> <p>User knows that the process is irreversible.</p>

**Table 14: App Settings (Mobile).**

<b>Use Case ID:</b>	M1-UC14
<b>Use Case Name:</b>	App Settings (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Change Application Settings.
<b>Trigger:</b>	Click on the “Settings” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click on ‘Settings’ Button</li><li>2. User may change app theme (Follow System, Dark or Light).</li><li>3. User may Logout.</li><li>4. User may change current location.</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If user does not have GPS on then prompt message will appear “Turn on GPS to get current location”</li></ol>
<b>Postconditions:</b>	POST-1. User’s account will be logged out. POST-2. User’s theme will be changed. POST-3. User’s location will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has knowledge about location and themes.

**Table 15: App Settings (Web).**

<b>Use Case ID:</b>	M1-UC15
<b>Use Case Name:</b>	App Settings (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Change Application Settings.
<b>Trigger:</b>	Click on the “Settings” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on ‘Settings’ Button</li> <li>2. User may change app theme (Follow System, Dark or Light).</li> <li>3. User may Logout.</li> <li>4. User may change current location.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user does not have GPS on then prompt message will appear “Turn on GPS to get current location”</li> </ol>
<b>Postconditions:</b>	POST-1. User’s account will be logged out. POST-2. User’s theme will be changed. POST-3. User’s location will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has knowledge about location and themes.

**Table 16: Notifications (Mobile).**

<b>Use Case ID:</b>	M1-UC16
<b>Use Case Name:</b>	Notifications (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Change Notifications Settings.
<b>Trigger:</b>	Click on the “Notifications” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on ‘Notifications Settings’ Button</li> <li>2. User may toggle all notifications off.</li> <li>3. User may toggle messaging notification</li> <li>4. User may toggle ADs notification</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>2. If user does not have GPS on then prompt message will appear “Turn on GPS to get current location”</li> </ol>
<b>Postconditions:</b>	POST-1. User’s account will be logged out. POST-2. User’s theme will be changed. POST-3. User’s location will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has knowledge about location and themes.

**Table 17: Notifications (Web).**

<b>Use Case ID:</b>	M1-UC17
<b>Use Case Name:</b>	Notifications (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Change Notifications Settings.
<b>Trigger:</b>	Click on the “Notifications” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	5. User will click on ‘Notifications Settings’ Button 6. User may toggle all notifications off. 7. User may toggle messaging notification 8. User may toggle ADs notification
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	3. If user does not have GPS on then prompt message will appear “Turn on GPS to get current location”
<b>Postconditions:</b>	POST-1. User’s account will be logged out. POST-2. User’s theme will be changed. POST-3. User’s location will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has knowledge about location and themes.



**Table 18: Subscription.**

<b>Use Case ID:</b>	M1-UC18
<b>Use Case Name:</b>	Subscription.
<b>Actors:</b>	Primary Actor: User Secondary Actor: SCM
<b>Description:</b>	User will be able to Subscribe to Newsletter.
<b>Trigger:</b>	Click on the “Subscribe” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	1. User will enter email on text field 2. User will press subscribe button.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	4. If user does not have GPS on then prompt message will appear “Turn on GPS to get current location”
<b>Postconditions:</b>	POST-1. User’s account will be logged out. POST-2. User’s theme will be changed. POST-3. User’s location will be changed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has knowledge about location and themes.

### 4.2.2 Module 2: Buy and Sell

Following are the Tabular Use Cases for second module.

**Table 19: Post ad (Web).**

<b>Use Case ID:</b>	M2-UC1
<b>Use Case Name:</b>	Post ad (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to post ad
<b>Trigger:</b>	Click on the “Post ad” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click on the post ad button</li><li>2. User will select the ad category</li><li>3. User will enter ad description</li><li>4. User will enter service price</li><li>5. User will enter service location</li><li>6. User will press ‘post’ button</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	9a. if user doesn’t fill all the fields <ol style="list-style-type: none"><li>1. Prompt message will appear “please enter all fields”</li></ol>
<b>Postconditions:</b>	POST-1. User will be able to post an ad
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 20: Post ad (Mobile).**

<b>Use Case ID:</b>	M2-UC2
<b>Use Case Name:</b>	Post ad (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to post ad
<b>Trigger:</b>	Click on the “Post ad” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on the post ad button</li> <li>2. User will select the ad category</li> <li>3. User will enter ad description</li> <li>4. User will enter service price</li> <li>5. User will enter service location</li> <li>6. User will press ‘post’ button</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>9a. if user doesn’t fill all the fields</li> <li>2. Prompt message will appear “please enter all fields”</li> </ol>
<b>Postconditions:</b>	POST-1. User will be able to post an ad
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 21: Edit ad (Web).**

<b>Use Case ID:</b>	M2-UC3
<b>Use Case Name:</b>	Edit ad
<b>Actors:</b>	Primary Actor: User      Secondary Actor: Smart Construction Manager
<b>Description:</b>	User will be able to Edit an ad
<b>Trigger:</b>	Click on the “Edit ad” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select my adds button</li> <li>2. User will click on the edit ad button</li> <li>3. User will select the desired posted ad</li> <li>4. User will click ok button</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	2a if user doesn’t select the desired ad <ol style="list-style-type: none"> <li>1. Prompt message will appear “please select the desired ad”</li> </ol>
<b>Postconditions:</b>	POST-1. User will be able to delete an ad
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 22: Edit ad (Mobile).**

<b>Use Case ID:</b>	M2-UC-4
<b>Use Case Name:</b>	Edit ad
<b>Actors:</b>	Primary Actor: User      Secondary Actor: Smart Construction Manager
<b>Description:</b>	User will be able to Edit an ad
<b>Trigger:</b>	Click on the “Edit ad” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	5. User will select my adds button 6. User will click on the edit ad button 7. User will select the desired posted ad 8. User will click ok button
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	2a if user doesn’t select the desired ad 2. Prompt message will appear “please select the desired ad”
<b>Postconditions:</b>	POST-1. User will be able to delete an ad
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 23: Delete ad (Web).**

<b>Use Case ID:</b>	M2-UC5
<b>Use Case Name:</b>	Delete ad
<b>Actors:</b>	Primary Actor: User      Secondary Actor: Smart Construction Manager
<b>Description:</b>	User will be able to Delete an ad
<b>Trigger:</b>	Click on the “Delete ad” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select my adds button</li> <li>2. User will click on the delete ad button</li> <li>3. User will select the desired posted ad</li> <li>4. User will click ok button</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	2a if user doesn’t select the desired ad 3. Prompt message will appear “please select the desired ad”
<b>Postconditions:</b>	POST-1. User will be able to delete an ad
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 24: Delete ad (Mobile).**

<b>Use Case ID:</b>	M2-UC6
<b>Use Case Name:</b>	Delete ad
<b>Actors:</b>	Primary Actor: User      Secondary Actor: Smart Construction Manager
<b>Description:</b>	User will be able to Delete an ad
<b>Trigger:</b>	Click on the “Delete ad” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will select my adds button</li><li>2. User will click on the delete ad button</li><li>3. User will select the desired posted ad</li><li>4. User will click ok button</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	2a if user doesn’t select the desired ad 4. Prompt message will appear “please select the desired ad”
<b>Postconditions:</b>	POST-1. User will be able to delete an ad
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 25: View ad (Web).**

<b>Use Case ID:</b>	M2-UC7
<b>Use Case Name:</b>	View ad
<b>Actors:</b>	Primary Actor: User      Secondary Actor: Smart Construction Manager
<b>Description:</b>	User will be able to View a posted ad
<b>Trigger:</b>	Click on the “View ad” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on the ad button</li> <li>2. User will see the ad</li> <li>3. Add will be saved to view history</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	2a if user doesn’t select the desired ad <ol style="list-style-type: none"> <li>1. Prompt message will appear “please select the desired ad”</li> </ol>
<b>Postconditions:</b>	POST-1. User will be able to view a desired ad.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.



**Table 26: View ad (Mobile).**

<b>Use Case ID:</b>	M2-UC8
<b>Use Case Name:</b>	View ad (Mobile)
<b>Actors:</b>	Primary Actor: User      Secondary Actor: Smart Construction Manager
<b>Description:</b>	User will be able to View a posted ad
<b>Trigger:</b>	Click on the “View ad” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on the ad button</li> <li>2. User will see the ad</li> <li>3. Add will be saved to view history</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>2a if user doesn’t select the desired ad</li> <li>2. Prompt message will appear “please select the desired ad”</li> </ol>
<b>Postconditions:</b>	POST-1. User will be able to view a desired ad.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 27: History (Web).**

<b>Use Case ID:</b>	M2-UC9
<b>Use Case Name:</b>	History (Web)
<b>Actors:</b>	Primary Actor: User      Secondary Actor: Smart Construction Manager
<b>Description:</b>	User will be able to manage a viewed ad history
<b>Trigger:</b>	Click on the “View ads history” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on the history button</li> <li>2. User will see all the ads viewed</li> <li>3. User can turn off history</li> <li>4. User can clear history</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be able to view history.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 28: History (Mobile).**

<b>Use Case ID:</b>	M2-UC10
<b>Use Case Name:</b>	History (Mobile)
<b>Actors:</b>	Primary Actor: User      Secondary Actor: Smart Construction Manager
<b>Description:</b>	User will be able to manage a viewed ad history
<b>Trigger:</b>	Click on the “View ads history” button
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	5. User will click on the history button 6. User will see all the ads viewed 7. User can turn off history 8. User can clear history
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be able to view history.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 29: Favorite Ad (Web).**

<b>Use Case ID:</b>	M2-UC11
<b>Use Case Name:</b>	Favorite Ad (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Favorite Ad and manage them
<b>Trigger:</b>	Click on the “Heart” icon on any ad
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click on the add to view</li><li>2. User press heart icon on add.</li><li>3. User can manage favorites in favorites list</li><li>4. User can clear favorites</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be able to view history.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

**Table 30: Favorite Ad (Mobile).**

<b>Use Case ID:</b>	M2-UC12
<b>Use Case Name:</b>	Favorite Ad (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Favorite Ad and manage them
<b>Trigger:</b>	Click on the “Heart” icon on any ad
<b>Level:</b>	Medium
<b>Preconditions:</b>	PRE-1. User has logged in the account.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on the add to view</li> <li>2. User press heart icon on add.</li> <li>3. User can manage favorites in favorites list</li> <li>4. User can clear favorites</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be able to view history.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User has an active internet connection. User has installed the application. User has an account.

### 4.2.3 Module 3: Search

Following are the Tabular Use Cases for third module

**Table 31: Search by Text (Web).**

<b>Use Case ID:</b>	M3-UC1
<b>Use Case Name:</b>	Search by Text (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Search Ad
<b>Trigger:</b>	Click on the “Search” Bar.
<b>Level:</b>	High
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User visits SCM website.</li><li>2. User will click on search bar</li><li>3. User types the text they want to search.</li><li>4. User will see list of relevant results</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be ads relevant to text typed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can speak English.

**Table 32: Search by Text (Mobile).**

<b>Use Case ID:</b>	M3-UC2
<b>Use Case Name:</b>	Search by Text (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Search Ad
<b>Trigger:</b>	Click on the “Search” Bar.
<b>Level:</b>	High
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User visits SCM website.</li><li>2. User will click on search bar</li><li>3. User types the text they want to search.</li><li>4. User will see list of relevant results</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be ads relevant to text typed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can speak English.

**Table 33: Search by Audio (Web).**

<b>Use Case ID:</b>	M3-UC3
<b>Use Case Name:</b>	Search by Audio (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Search Ad
<b>Trigger:</b>	Click on the “Search” Bar.
<b>Level:</b>	High
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User visits SCM website.</li><li>2. User will click on search bar</li><li>3. User presses speaker icon and starts speaking</li><li>4. Speech is converted to text and displayed on search bar.</li><li>5. User will see list of search results</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be ads relevant to text typed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can speak English.



**Table 34: Search by Audio (Mobile).**

<b>Use Case ID:</b>	M3-UC4
<b>Use Case Name:</b>	Search by Audio (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Search Ad
<b>Trigger:</b>	Click on the “Search” Bar.
<b>Level:</b>	High
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User visits SCM website.</li><li>2. User will click on search bar</li><li>3. User presses speaker icon and starts speaking</li><li>4. Speech is converted to text and displayed on search bar.</li><li>5. User will see list of search results</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be ads relevant to text typed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can speak English.

**Table 35: Filters (Web).**

<b>Use Case ID:</b>	M3-UC5
<b>Use Case Name:</b>	Filters (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Filter Search results
<b>Trigger:</b>	Click on the “Filter” Button.
<b>Level:</b>	High
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User visits SCM website.</li> <li>2. User will click on filter button.</li> <li>3. User checks the fields user want to be displayed.</li> <li>4. User will see list of filtered search results</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will see ads relevant to text typed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can speak English.

**Table 36: Filters (Mobile).**

<b>Use Case ID:</b>	M3-UC6
<b>Use Case Name:</b>	Filters (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to Filter Search results
<b>Trigger:</b>	Click on the “Filter” Button.
<b>Level:</b>	High
<b>Preconditions:</b>	N/A.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User visits SCM website.</li> <li>2. User will click on filter button.</li> <li>3. User checks the fields user want to be displayed.</li> <li>4. User will see list of filtered search results</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will see ads relevant to text typed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can speak English.

**Table 37: Suggestions (Web).**

<b>Use Case ID:</b>	M3-UC7
<b>Use Case Name:</b>	Suggestions (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to see search suggestions before typing.
<b>Trigger:</b>	Click on the “Search” Bar.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has entered something on text area.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User visits SCM website.</li><li>2. User will click on Search button.</li><li>3. User types on text field.</li><li>4. User will see list of search suggestions in dropdown below search bar.</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will see ads relevant to text typed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can speak English.

**Table 38: Suggestions (Mobile).**

<b>Use Case ID:</b>	M3-UC8
<b>Use Case Name:</b>	Suggestions (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to see search suggestions before typing.
<b>Trigger:</b>	Click on the “Search” Bar.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has entered something on text area.
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User visits SCM website.</li><li>2. User will click on Search button.</li><li>3. User types on text field.</li><li>4. User will see list of search suggestions in dropdown below search bar.</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will see ads relevant to text typed.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can speak English.

#### 4.2.4 Module 4: Chat

Following are the Tabular Use Cases for fourth module.

**Table 39: New Conversation (Web).**

<b>Use Case ID:</b>	M4-UC1
<b>Use Case Name:</b>	New Conversation (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to start a chat with another user.
<b>Trigger:</b>	Click on the “+” icon in chat menu.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click on + button.</li><li>2. User will enter name of recipient.</li><li>3. User selects the recipient from searched results</li><li>4. User types text in text area and starts chatting.</li></ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"><li>1. User views an add</li><li>2. User press chat button in the add</li><li>3. New Conversation is started with the user who posted the ad</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If user enters the name that does not belong to any SCM account user will see prompt message “No results found”</li></ol>
<b>Postconditions:</b>	POST-1. User will be able to send message to another user.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 40: New Conversation (Mobile).**

<b>Use Case ID:</b>	M4-UC2
<b>Use Case Name:</b>	New Conversation (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to start a chat with another user.
<b>Trigger:</b>	Click on the “+” icon in chat menu.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on + button.</li> <li>2. User will enter name of recipient.</li> <li>3. User selects the recipient from searched results</li> <li>4. User types text in text area and starts chatting.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User views an add</li> <li>2. User press chat button in the add</li> <li>3. New Conversation is started with the user who posted the ad</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user enters the name that does not belong to any SCM account user will see prompt message “No results found”</li> </ol>
<b>Postconditions:</b>	POST-1. User will be able to send message to another user.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 41: Delete Conversation (Web).**

<b>Use Case ID:</b>	M4-UC3
<b>Use Case Name:</b>	Delete Conversation (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to delete a chat.
<b>Trigger:</b>	Press and hold the conversation
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click and hold the conversation.</li><li>2. User will press delete button.</li><li>3. A confirmation dialog box appears</li><li>4. User presses ok to delete the chat</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User's conversation will be deleted.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 42: Delete Conversation (Mobile).**

<b>Use Case ID:</b>	M4-UC4
<b>Use Case Name:</b>	Delete Conversation (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to delete a chat.
<b>Trigger:</b>	Press and hold the conversation.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click and hold the conversation.</li><li>2. User will press delete button.</li><li>3. A confirmation dialog box appears</li><li>4. User presses ok to delete the chat</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User's conversation will be deleted.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.



**Table 43: Archive Conversation (Web).**

<b>Use Case ID:</b>	M4-UC5
<b>Use Case Name:</b>	Archive Conversation (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to archive a chat.
<b>Trigger:</b>	Press and hold the conversation
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click and hold the conversation.</li><li>2. User will press archive button.</li><li>3. A confirmation dialog box appears</li><li>4. User presses ok to delete the chat</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User's conversation will be archived.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 44: Archive Conversation (Mobile).**

<b>Use Case ID:</b>	M4-UC6
<b>Use Case Name:</b>	Archive Conversation (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to archive a chat.
<b>Trigger:</b>	Press and hold the conversation
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will click and hold the conversation.</li><li>2. User will press archive button.</li><li>3. A confirmation dialog box appears</li><li>4. User presses ok to delete the chat</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User's conversation will be archive.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 45: See Archive Conversation (Web).**

<b>Use Case ID:</b>	M4-UC7
<b>Use Case Name:</b>	See Archive Conversation (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to see archived a chat.
<b>Trigger:</b>	Press 'Archive' button in end of chat list
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC1, M4-UC5
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will scroll to the bottom of chats.</li><li>2. User will press archive button.</li><li>3. User will see archived chats</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User's conversation will be archive.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 46: See Archive Conversation (Mobile).**

<b>Use Case ID:</b>	M4-UC8
<b>Use Case Name:</b>	See Archive Conversation (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to see archived a chat.
<b>Trigger:</b>	Press 'Archive' button in end of chat list
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC2, M4-UC6
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will scroll to the bottom of chats.</li><li>2. User will press archive button.</li><li>3. User will see archived chats</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User's conversation will be archive.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 47: Send Text (Web).**

<b>Use Case ID:</b>	M4-UC9
<b>Use Case Name:</b>	Send Text (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send text message.
<b>Trigger:</b>	Press 'Send button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will enter text in provided text field.</li> <li>3. User will press send button.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will enter text in provided text field.</li> <li>4. User will press send button.</li> </ol>
<b>Exceptions:</b>	If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"
<b>Postconditions:</b>	POST-1. User's message will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 48: Send Text (Mobile).**

<b>Use Case ID:</b>	M4-UC10
<b>Use Case Name:</b>	Send Text (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send text message.
<b>Trigger:</b>	Press 'Send button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will enter text in provided text field.</li> <li>3. User will press send button.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will enter text in provided text field.</li> <li>4. User will press send button.</li> </ol>
<b>Exceptions:</b>	If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"
<b>Postconditions:</b>	POST-1. User's message will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 49: Send File (Web).**

<b>Use Case ID:</b>	M4-UC11
<b>Use Case Name:</b>	Send File (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send file in message.
<b>Trigger:</b>	Press 'Send' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will select attach file.</li> <li>3. User will see option to select image/audio/video/file</li> <li>4. User will select file from the device</li> <li>5. User will press send button.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will select attach file.</li> <li>4. User will see option to select image/audio/video/file</li> <li>5. User will select file from the device</li> <li>6. User will press send button.</li> </ol>
<b>Exceptions:</b>	If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"
<b>Postconditions:</b>	POST-1. User's message will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu. User has a file in the system.

**Table 50: Send File (Mobile).**

<b>Use Case ID:</b>	M4-UC12
<b>Use Case Name:</b>	Send File (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send file in message.
<b>Trigger:</b>	Press 'Send' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will select attach file.</li> <li>3. User will see option to select image/audio/video/file</li> <li>4. User will select file from the device</li> <li>5. User will press send button.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will select attach file.</li> <li>4. User will see option to select image/audio/video/file</li> <li>5. User will select file from the device</li> <li>6. User will press send button.</li> </ol>
<b>Exceptions:</b>	If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"
<b>Postconditions:</b>	POST-1. User's message will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu. User has a file in the system.



**Table 51: Send File (Web).**

<b>Use Case ID:</b>	M4-UC11
<b>Use Case Name:</b>	Send File (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send file in message.
<b>Trigger:</b>	Press 'Send' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC1
<b>Normal Flow:</b>	6. User will select conversation from list. 7. User will select attach file. 8. User will see option to select image/audio/video/file 9. User will select file from the device 10. User will press send button.
<b>Alternative Flows:</b>	7. User selects chat button from ad. 8. User will be redirected to the conversation 9. User will select attach file. 10. User will see option to select image/audio/video/file 11. User will select file from the device 12. User will press send button.
<b>Exceptions:</b>	If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"
<b>Postconditions:</b>	POST-1. User's message will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu. User has a file in the system.

**Table 52: Send File (Mobile).**

<b>Use Case ID:</b>	M4-UC12
<b>Use Case Name:</b>	Send File (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send file in message.
<b>Trigger:</b>	Press 'Send' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will select attach file.</li> <li>3. User will see option to select image/audio/video/file</li> <li>4. User will select file from the device</li> <li>5. User will press send button.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will select attach file.</li> <li>4. User will see option to select image/audio/video/file</li> <li>5. User will select file from the device</li> <li>6. User will press send button.</li> </ol>
<b>Exceptions:</b>	If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"
<b>Postconditions:</b>	POST-1. User's message will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu. User has a file in the system.

**Table 53: Send Location (Web).**

<b>Use Case ID:</b>	M4-UC13
<b>Use Case Name:</b>	Send Location (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send location in message.
<b>Trigger:</b>	Press 'Send' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will select location icon.</li> <li>3. User will see a map.</li> <li>4. User may drop pin or select current location.</li> <li>5. User will press send button.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will select location icon.</li> <li>4. User will see a map.</li> <li>5. User may drop pin or select current location.</li> <li>6. User will press send button.</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"</li> <li>2. If user has not turned GPS on prompt message will appear "Turn on GPS"</li> </ol>
<b>Postconditions:</b>	POST-1. User's location will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu. User has maps installed.

**Table 54: Send Location (Mobile).**

<b>Use Case ID:</b>	M4-UC14
<b>Use Case Name:</b>	Send Location (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send location in message.
<b>Trigger:</b>	Press 'Send' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will select location icon.</li> <li>3. User will see a map.</li> <li>4. User may drop pin or select current location.</li> <li>5. User will press send button.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will select location icon.</li> <li>4. User will see a map.</li> <li>5. User may drop pin or select current location.</li> <li>6. User will press send button.</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"</li> <li>2. If user has not turned GPS on prompt message will appear "Turn on GPS"</li> </ol>
<b>Postconditions:</b>	POST-1. User's location will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu. User has maps installed.

**Table 55: Send Link (Web).**

<b>Use Case ID:</b>	M4-UC15
<b>Use Case Name:</b>	Send Link (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send link with preview in message.
<b>Trigger:</b>	Press 'Send' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will paste link.</li> <li>3. User will see a link preview.</li> <li>4. User will press send button.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will paste link.</li> <li>4. User will see a link preview.</li> <li>5. User will press send button.</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"</li> <li>2. And Link preview will not appear</li> </ol>
<b>Postconditions:</b>	POST-1. User's location will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 56: Send Link (Mobile).**

<b>Use Case ID:</b>	M4-UC16
<b>Use Case Name:</b>	Send Link (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to send link with preview in message.
<b>Trigger:</b>	Press 'Send' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in.
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will paste link.</li> <li>3. User will see a link preview.</li> <li>4. User will press send button.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will paste link.</li> <li>4. User will see a link preview.</li> <li>5. User will press send button.</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>3. If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"</li> <li>4. And Link preview will not appear</li> </ol>
<b>Postconditions:</b>	POST-1. User's location will be sent.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 57: Delete Message (Web).**

<b>Use Case ID:</b>	M4-UC17
<b>Use Case Name:</b>	Delete Message (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to delete message from conversation.
<b>Trigger:</b>	Press and hold a message in conversation.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has started a conversation PRE-3: User has sent a message
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will press and hold a message.</li> <li>3. User will select delete.</li> <li>4. User will press ok to confirm deletion.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will press and hold a message.</li> <li>4. User will select delete.</li> <li>5. User will press ok to confirm deletion</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user is not connected to the internet prompt message will appear “Cannot send message! Connect to the internet please”</li> </ol>
<b>Postconditions:</b>	POST-1. Message will be cleared form conversation.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 58: Delete Message (Mobile).**

<b>Use Case ID:</b>	M4-UC18
<b>Use Case Name:</b>	Delete Message (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to delete message from conversation.
<b>Trigger:</b>	Press and hold a message in conversation.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has started a conversation PRE-3: User has sent a message
<b>Includes:</b>	M1-UC1, M1-UC3, M4-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will press and hold a message.</li> <li>3. User will select delete.</li> <li>4. User will press ok to confirm deletion.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will press and hold a message.</li> <li>4. User will select delete.</li> <li>5. User will press ok to confirm deletion</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user is not connected to the internet prompt message will appear “Cannot send message! Connect to the internet please”</li> </ol>
<b>Postconditions:</b>	POST-1. Message will be cleared form conversation.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.



**Table 59: Delete for All (Web).**

<b>Use Case ID:</b>	M4-UC19
<b>Use Case Name:</b>	Delete for All (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to delete message for recipient's conversation also.
<b>Trigger:</b>	Press and hold a message in conversation.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has started a conversation PRE-3: User has sent a message
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select conversation from list.</li> <li>2. User will press and hold a message.</li> <li>3. User will select delete.</li> <li>4. User will press ok to all to confirm deletion.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User selects chat button from ad.</li> <li>2. User will be redirected to the conversation</li> <li>3. User will press and hold a message.</li> <li>1. User will select delete.</li> <li>2. User will press ok to all to confirm deletion</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>2. If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"</li> </ol>
<b>Postconditions:</b>	POST-1. Message will be cleared form conversation. POST-2. Message will be cleared form recipient's conversation.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

**Table 60: Delete for All (Mobile).**

<b>Use Case ID:</b>	M4-UC20
<b>Use Case Name:</b>	Delete for All (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to delete message for recipient's conversation also.
<b>Trigger:</b>	Press and hold a message in conversation.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has started a conversation PRE-3: User has sent a message
<b>Includes:</b>	M1-UC2, M1-UC4, M4-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>5. User will select conversation from list.</li> <li>6. User will press and hold a message.</li> <li>7. User will select delete.</li> <li>8. User will press ok to all to confirm deletion.</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>4. User selects chat button from ad.</li> <li>5. User will be redirected to the conversation</li> <li>6. User will press and hold a message.</li> <li>3. User will select delete.</li> <li>4. User will press ok to all to confirm deletion</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>3. If user is not connected to the internet prompt message will appear "Cannot send message! Connect to the internet please"</li> </ol>
<b>Postconditions:</b>	POST-1. Message will be cleared form conversation. POST-2. Message will be cleared form recipient's conversation.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User can navigate to chat menu.

#### 4.2.5 Module 5: Recommendations Tab

Following are the Tabular Use Cases for fifth module.

**Table 61: Process Recommendations (Web).**

<b>Use Case ID:</b>	M5-UC1
<b>Use Case Name:</b>	Process Recommendations (Web)
<b>Actors:</b>	Primary Actor: SCM
<b>Description:</b>	SCM will take user's history and feedback to fetch relevant posts for user.
<b>Trigger:</b>	User login and opening home page.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has viewed ads PRE-3: User has favorited ads PRE-4: User has searched.
<b>Includes:</b>	M2-UC7, M2-UC-9, M2-UC11
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will login into app.</li><li>2. SCM will take user's data.</li><li>3. SCM will process data.</li><li>4. SCM will improve model to match user's requirement.</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If user does not have any data recommendations tab will not appear</li></ol>
<b>Postconditions:</b>	POST-1. SCM will be ready to identify item as relevant or irrelevant.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants relevant content.

**Table 62: Process Recommendations (Mobile).**

<b>Use Case ID:</b>	M5-UC2
<b>Use Case Name:</b>	Process Recommendations (Mobile)
<b>Actors:</b>	Primary Actor: SCM
<b>Description:</b>	SCM will take user's history and feedback to fetch relevant posts for user.
<b>Trigger:</b>	User login and opening home page.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has viewed ads PRE-3: User has favorited ads PRE-4: User has searched.
<b>Includes:</b>	M2-UC8, M2-UC-10, M2-UC12
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will login into app.</li> <li>2. SCM will take user's data.</li> <li>3. SCM will process data.</li> <li>4. SCM will improve model to match user's requirement.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	2. If user does not have any data recommendations tab will not appear
<b>Postconditions:</b>	POST-1. SCM will be ready to identify item as relevant or irrelevant.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants relevant content.

**Table 63: Show Recommendations (Web).**

<b>Use Case ID:</b>	M5-UC3
<b>Use Case Name:</b>	Show Recommendations (Web)
<b>Actors:</b>	Primary Actor: SCM
<b>Description:</b>	SCM will show user relevant posts.
<b>Trigger:</b>	User login and opening home page.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has viewed ads PRE-3: User has favorited ads PRE-4: User has searched.
<b>Includes:</b>	M2-UC7, M2-UC-9, M2-UC11, M5-UC1
<b>Normal Flow:</b>	1. SCM will show user recommendations 2. User will click on recommendations button to see more recommendations
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	3. If user does not have any data recommendations tab will not appear
<b>Postconditions:</b>	POST-1. User will see relevant content.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants relevant content.

**Table 64: Show Recommendations (Mobile).**

<b>Use Case ID:</b>	M5-UC4
<b>Use Case Name:</b>	Show Recommendations (Mobile)
<b>Actors:</b>	Primary Actor: SCM
<b>Description:</b>	SCM will show user relevant posts.
<b>Trigger:</b>	User login and opening home page.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has viewed ads PRE-3: User has favorited ads PRE-4: User has searched.
<b>Includes:</b>	M2-UC8, M2-UC-10, M2-UC12, M5-UC2
<b>Normal Flow:</b>	1. SCM will show user recommendations 2. User will click on recommendations button to see more recommendations
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	4. If user does not have any data recommendations tab will not appear
<b>Postconditions:</b>	POST-1. User will see relevant content.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants relevant content.

**Table 65: Take Feedback (Web).**

<b>Use Case ID:</b>	M5-UC5
<b>Use Case Name:</b>	Take Feedback (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will select recommended post as relevant or irrelevant.
<b>Trigger:</b>	User login and opening home page.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has viewed ads PRE-3: User has favorited ads PRE-4: User has searched.
<b>Includes:</b>	M2-UC7, M2-UC-9, M2-UC11, M5-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. SCM will show user recommendations</li> <li>2. User will select recommendations</li> <li>3. User will select relevant or irrelevant from the dropdown.</li> <li>4. SCM will not recommend that content again</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user does not have any data recommendations tab will not appear</li> </ol>
<b>Postconditions:</b>	POST-1. SCM will adapt towards user's behavior
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants relevant content.

**Table 66: Take Feedback (Mobile).**

<b>Use Case ID:</b>	M5-UC6
<b>Use Case Name:</b>	Take Feedback (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will select recommended post as relevant or irrelevant.
<b>Trigger:</b>	User login and opening home page.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. PRE-2: User has viewed ads PRE-3: User has favorited ads PRE-4: User has searched.
<b>Includes:</b>	M2-UC8, M2-UC-10, M2-UC12, M5-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. SCM will show user recommendations</li> <li>2. User will select recommendations</li> <li>3. User will select relevant or irrelevant from the dropdown.</li> <li>4. SCM will not recommend that content again</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	2. If user does not have any data recommendations tab will not appear
<b>Postconditions:</b>	POST-1. SCM will adapt towards user's behavior
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants relevant content.



#### 4.2.6 Module 6: Map Making (3D Models)

Following are the Tabular Use Cases for sixth module

**Table 67: Pre-Built Models.**

<b>Use Case ID:</b>	M6-UC1
<b>Use Case Name:</b>	Pre-Built Models
<b>Actors:</b>	Primary Actor: SCM Secondary Actor: User
<b>Description:</b>	SCM will provide user the pre-built designs of homes in application.
<b>Trigger:</b>	User clicks on 'models' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has logged in. .
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. SCM will provide user multiple designs of homes</li><li>2. User will see these designs by pressing models' button</li><li>3. User will see list of models with their short description</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If user does not have internet the model will not be downloaded and user will see error</li></ol>
<b>Postconditions:</b>	POST-1. User will have full experience of viewing 3D Object
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants maps for construction site.

**Table 68: Show Model (Web).**

<b>Use Case ID:</b>	M6-UC2
<b>Use Case Name:</b>	Show Model (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can see the 3D model.
<b>Trigger:</b>	User clicks on Model
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has visited the
<b>Includes:</b>	M6-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on the model</li> <li>2. User will see the model.</li> <li>3. User can rotate the model.</li> <li>4. User will have full three-dimensional experience of model.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user does not have internet the model will not be downloaded and user will see error message “Connect to internet to download model first time.”</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of viewing 3D Object
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants maps for construction site.

**Table 69: Show Model (Mobile).**

<b>Use Case ID:</b>	M6-UC3
<b>Use Case Name:</b>	Show Model (Model)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can see the 3D model.
<b>Trigger:</b>	User clicks on Model
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User has visited the
<b>Includes:</b>	M6-UC1
<b>Normal Flow:</b>	5. User will click on the model 6. User will see the model. 7. User can rotate the model. 8. User will have full three-dimensional experience of model.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	2. If user does not have internet the model will not be downloaded and user will see error message “Connect to internet to download model first time.”
<b>Postconditions:</b>	POST-1. User will have full experience of viewing 3D Object
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants maps for construction site.

**Table 70: Save Model (Web).**

<b>Use Case ID:</b>	M6-UC4
<b>Use Case Name:</b>	Save Model (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can save the 3D model.
<b>Trigger:</b>	User clicks on 'Save Model' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in models' menu
<b>Includes:</b>	M1-UC2, M1-UC4, M6-UC1, M6-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on the model list</li> <li>2. User will press the save model button</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User is viewing the model</li> <li>2. User presses save button</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>3. If user does not have enough storage popup message will appear" saving model to library but cannot be downloaded'</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of viewing 3D Object POST-2. 3D Model will be saved to user's library
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants maps for construction site.

**Table 71: Save Model (Mobile).**

<b>Use Case ID:</b>	M6-UC5
<b>Use Case Name:</b>	Save Model (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can save the 3D model.
<b>Trigger:</b>	User clicks on 'Save Model' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in models' menu
<b>Includes:</b>	M1-UC1, M1-UC3, M6-UC2, M6-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on the model list</li> <li>2. User will press the save model button</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User is viewing the model</li> <li>2. User presses save button</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user does not have enough storage popup message will appear "saving model to library but cannot be downloaded"</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of viewing 3D Object POST-2. 3D Model will be saved to user's library
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants maps for construction site.

**Table 72: Share Model (Web).**

<b>Use Case ID:</b>	M6-UC6
<b>Use Case Name:</b>	Share Model (Web).
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can share the 3D model.
<b>Trigger:</b>	User clicks on 'Share' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in models' menu
<b>Includes:</b>	M1-UC1, M1-UC3, M6-UC2, M6-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will click on the model list</li> <li>2. User will press the share model button</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>1. User is viewing the model</li> <li>2. User presses share button</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>2. If user does not have enough storage popup message will appear" saving model to library but cannot be downloaded'</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of viewing 3D Object POST-2. 3D Model will be shared.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants maps for construction site.

**Table 73: Share Model (Mobile).**

<b>Use Case ID:</b>	M6-UC7
<b>Use Case Name:</b>	Share Model (Mobile).
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can share the 3D model.
<b>Trigger:</b>	User clicks on 'Share' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in models' menu
<b>Includes:</b>	M1-UC1, M1-UC3, M6-UC2, M6-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>3. User will click on the model list</li> <li>4. User will press the share model button</li> </ol>
<b>Alternative Flows:</b>	<ol style="list-style-type: none"> <li>3. User is viewing the model</li> <li>4. User presses share button</li> </ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>3. If user does not have enough storage popup message will appear" saving model to library but cannot be downloaded'</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of viewing 3D Object POST-2. 3D Model will be shared.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants maps for construction site.

#### 4.2.7 Module 7: House Décor (AR)

Following are the Tabular Use Cases for seventh module

**Table 74: Show Objects.**

<b>Use Case ID:</b>	M7-UC1
<b>Use Case Name:</b>	Show Objects.
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can see the list of possible objects to be placed.
<b>Trigger:</b>	User clicks on ‘Objects’ button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in Décor menu
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	1. User will click on the AR Menu 2. User will see the list of possible objects
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	1. If user’s device does not support AR prompt message will appear “Device not supported”
<b>Postconditions:</b>	POST-1. User will have full experience of AR. POST-2. User will be able to virtually décor house before buying things.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants to décor house virtually.

**Table 75: Select Objects.**

<b>Use Case ID:</b>	M7-UC2
<b>Use Case Name:</b>	Select Objects.
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can select the object from list.
<b>Trigger:</b>	User clicks on ‘Object’
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in Décor menu
<b>Includes:</b>	M7-UC1
<b>Normal Flow:</b>	1. User will click on object 2. Object will be placed to virtual world
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	1. If user’s device does not support AR prompt message will appear “Device not supported”
<b>Postconditions:</b>	POST-1. User will have full experience of AR. POST-2. User will be able to virtually décor house before buying things.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants to décor house virtually.

**Table 76: Move Objects.**

<b>Use Case ID:</b>	M7-UC3
<b>Use Case Name:</b>	Move Objects.
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can move the object in virtual world.
<b>Trigger:</b>	User drags on screen, User moves phone
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in Décor menu
<b>Includes:</b>	M7-UC1, M7-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will press and hold the object</li> <li>2. User will drag the object to move it in the virtual world</li> <li>3. Moving Phone will also move the object.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user's device does not support AR prompt message will appear "Device not supported"</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of AR. POST-2. User will be able to virtually décor house before buying things.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants to décor house virtually.

**Table 77: Resize Objects.**

<b>Use Case ID:</b>	M7-UC4
<b>Use Case Name:</b>	Resize Objects.
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can change the size of the object in virtual world.
<b>Trigger:</b>	User pinches on the object
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in Décor menu
<b>Includes:</b>	M7-UC1, M7-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will pinch on the object</li> <li>2. Object size will increase Moving Phone will also move the object.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>2. If user's device does not support AR prompt message will appear "Device not supported"</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of AR. POST-2. User will be able to virtually décor house before buying things.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants to décor house virtually.



**Table 78: Place Objects.**

<b>Use Case ID:</b>	M7-UC5
<b>Use Case Name:</b>	Place Objects.
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can fix the position of the object in virtual world.
<b>Trigger:</b>	User will select 'Place' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in Décor menu
<b>Includes:</b>	M7-UC1, M7-UC2, M7-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will select 'Place' button</li> <li>2. Object will remain fixed in the virtual world.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>3. If user's device does not support AR prompt message will appear "Device not supported"</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of AR. POST-2. User will be able to virtually décor house before buying things.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants to décor house virtually.

**Table 79: Rotate Objects.**

<b>Use Case ID:</b>	M7-UC6
<b>Use Case Name:</b>	Rotate Objects.
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can rotate the object in virtual world.
<b>Trigger:</b>	User presses "rotate" icon on object.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in Décor menu
<b>Includes:</b>	M7-UC1, M7-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will press and hold object on virtual world</li> <li>2. User will press and hold rotate button</li> <li>3. User will swipe on screen to rotate object.</li> <li>4. Object will be rotated in the virtual world.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user's device does not support AR prompt message will appear "Device not supported"</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of AR. POST-2. User will be able to virtually décor house before buying things.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants to décor house virtually.

**Table 80: Remove Objects.**

<b>Use Case ID:</b>	M7-UC7
<b>Use Case Name:</b>	Remove Objects.
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can remove the object from virtual world.
<b>Trigger:</b>	User presses “remove” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is in Décor menu
<b>Includes:</b>	M7-UC1, M7-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will press and hold object on virtual world</li> <li>2. User will press remove button</li> <li>3. Object will be removed from the virtual world.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user’s device does not support AR prompt message will appear “Device not supported”</li> </ol>
<b>Postconditions:</b>	POST-1. User will have full experience of AR. POST-2. User will be able to virtually décor house before buying things.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User wants to décor house virtually.

#### 4.2.8 Module 8: Application Requests

Following are the Tabular Use Cases for eighth module

**Table 81: New Application (Web).**

<b>Use Case ID:</b>	M8-UC1
<b>Use Case Name:</b>	New Application (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can send application to government authorities.
<b>Trigger:</b>	User presses “+” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User is in Application Menu
<b>Includes:</b>	M1-UC2, M1-UC4,
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will press ‘+’ button</li><li>2. User will be asked to select government body</li><li>3. User will be given a form to fill w.r.t to the authority</li><li>4. User will attach the required documents in pdf or image format</li><li>5. User will press send button</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If user enters invalid CNIC prompt message will appear “Enter Valid CNIC’</li><li>2. If user enters invalid Email prompt message will appear “Enter Valid Email’</li><li>3. If user enters invalid Phone prompt message will appear “Enter Valid Phone’</li><li>4. If user does not attach requirements error message will appear saying “Attach required documents’</li></ol>
<b>Postconditions:</b>	POST-1. User’s application will be sent to verification phase. POST-2. User will immediately get response if the application was submitted.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 82: New Application (Mobile).**

<b>Use Case ID:</b>	M8-UC2
<b>Use Case Name:</b>	New Application (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User can send application to government authorities.
<b>Trigger:</b>	User presses “+” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User is in Application Menu
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will press ‘+’ button</li> <li>2. User will be asked to select government body</li> <li>3. User will be given a form to fill w.r.t to the authority</li> <li>4. User will attach the required documents in pdf or image format</li> <li>5. User will press send button</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>5. If user enters invalid CNIC prompt message will appear “Enter Valid CNIC’</li> <li>6. If user enters invalid Email prompt message will appear “Enter Valid Email’</li> <li>7. If user enters invalid Phone prompt message will appear “Enter Valid Phone’</li> <li>8. If user does not attach requirements error message will appear saying “Attach required documents’</li> </ol>
<b>Postconditions:</b>	POST-1. User’s application will be sent to verification phase. POST-2. User will immediately get response if the application was submitted.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 83: Verify Application (Web).**

<b>Use Case ID:</b>	M8-UC3
<b>Use Case Name:</b>	Verify Application (Web)
<b>Actors:</b>	Primary Actor: SCM Secondary Actor: User
<b>Description:</b>	User's application will be verified before sending.
<b>Trigger:</b>	User presses "Send" button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User sent the application
<b>Includes:</b>	M1-UC2, M1-UC4, M8-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will press 'Send' button</li> <li>2. SCM verifies if there is any other application for same address. One address can have only one application.</li> <li>3. SCM verifies if the applications against CNIC are not more than five.</li> <li>4. SCM informs user if the application is sent to respective authority or not.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If a request has been made for same address prompt message will appear "One application request against this address has already been made. Complete previous request to request more.'</li> <li>2. If five requests have been made with same CNIC prompt message will appear "this CNIC has already made five requests. Complete previous requests to request more.'</li> </ol>
<b>Postconditions:</b>	POST-1. User's application will be sent to government body. POST-2. User will immediately get response if the application was submitted.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 84: Verify Application (Mobile).**

<b>Use Case ID:</b>	M8-UC4
<b>Use Case Name:</b>	Verify Application (Mobile)
<b>Actors:</b>	Primary Actor: SCM Secondary Actor: User
<b>Description:</b>	User's application will be verified before sending.
<b>Trigger:</b>	User presses "Send" button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User sent the application
<b>Includes:</b>	M1-UC1, M1-UC3, M8-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will press 'Send' button</li> <li>2. SCM verifies if there is any other application for same address. One address can have only one application.</li> <li>3. SCM verifies if the applications against CNIC are not more than five.</li> <li>4. SCM informs user if the application is sent to respective authority or not.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>3. If a request has been made for same address prompt message will appear "One application request against this address has already been made. Complete previous request to request more.'</li> <li>4. If five requests have been made with same CNIC prompt message will appear "this CNIC has already made five requests. Complete previous requests to request more.'</li> </ol>
<b>Postconditions:</b>	POST-1. User's application will be sent to government body. POST-2. User will immediately get response if the application was submitted.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 85: Manage Application (Web).**

<b>Use Case ID:</b>	M8-UC5
<b>Use Case Name:</b>	Manage Application (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will see list of applications.
<b>Trigger:</b>	User presses “Manage Applications” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in
<b>Includes:</b>	M1-UC2, M1-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will press ‘Manage Applications’ button</li><li>2. User will see a list of applications.</li><li>3. Applications will be grouped according to their status (Active, Completed, Rejected etc.)</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If user has not made any applications requests “no application requests” will appear instead of the list.</li></ol>
<b>Postconditions:</b>	POST-1. User will be able to see application request history. POST-2. User will be able to manage applications.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 86: Manage Application (Mobile).**

<b>Use Case ID:</b>	M8-UC6
<b>Use Case Name:</b>	Manage Application (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will see list of applications.
<b>Trigger:</b>	User presses “Manage Applications” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in
<b>Includes:</b>	M1-UC1, M1-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. User will press ‘Manage Applications’ button</li><li>2. User will see a list of applications.</li><li>3. Applications will be grouped according to their status (Active, Completed, Rejected etc.)</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If user has not made any applications requests “no application requests” will appear instead of the list.</li></ol>
<b>Postconditions:</b>	POST-1. User will be able to see application request history. POST-2. User will be able to manage applications.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.



**Table 87: View Application (Web).**

<b>Use Case ID:</b>	M8-UC7
<b>Use Case Name:</b>	View Application (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will see detail of application.
<b>Trigger:</b>	User clicks on applications from list.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User has made application request
<b>Includes:</b>	M1-UC2, M1-UC4, M8-UC1, M8-UC3, M8-UC5
<b>Normal Flow:</b>	1. User will click on application. 2. User will see application detail.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be able to see application history. POST-2. User will be able to cancel application. POST-3. User will be able to resubmit application.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 88: View Application (Mobile).**

<b>Use Case ID:</b>	M8-UC8
<b>Use Case Name:</b>	View Application (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will see detail of application.
<b>Trigger:</b>	User clicks on applications from list.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User has made application request
<b>Includes:</b>	M1-UC1, M1-UC3, M8-UC2, M8-UC4, M8-UC6
<b>Normal Flow:</b>	1. User will click on application. 2. User will see application detail.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Postconditions:</b>	POST-1. User will be able to see application history. POST-2. User will be able to cancel application. POST-3. User will be able to resubmit application.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 89: Cancel Application (Web).**

<b>Use Case ID:</b>	M8-UC9
<b>Use Case Name:</b>	Cancel Application (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to cancel application request made
<b>Trigger:</b>	User clicks on 'Cancel' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User has made application request
<b>Includes:</b>	M1-UC2, M1-UC4, M8-UC1, M8-UC3, M8-UC5, M8-UC7
<b>Normal Flow:</b>	1. User will click on application. 2. User will click 'Cancel Button'
<b>Alternative Flows:</b>	1. User will click on Manage Application. 2. User will press 'x' button on application.
<b>Exceptions:</b>	1. If application is complete 'cancel' button will not appear.
<b>Postconditions:</b>	POST-1. Application will be canceled.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 90: Cancel Application (Mobile).**

<b>Use Case ID:</b>	M8-UC10
<b>Use Case Name:</b>	Cancel Application (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to cancel application request made
<b>Trigger:</b>	User clicks on 'Cancel' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User has made application request
<b>Includes:</b>	M1-UC1, M1-UC3, M8-UC2, M8-UC4, M8-UC6, M8-UC8
<b>Normal Flow:</b>	1. User will click on application. 2. User will click 'Cancel Button'
<b>Alternative Flows:</b>	1. User will click on Manage Application. 2. User will press 'x' button on application.
<b>Exceptions:</b>	1. If application is complete 'cancel' button will not appear.
<b>Postconditions:</b>	POST-1. Application will be canceled
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 91: Receive Update (Web).**

<b>Use Case ID:</b>	M8-UC11
<b>Use Case Name:</b>	Receive Update (Web)
<b>Actors:</b>	Primary Actor: SCM Secondary Actor: User
<b>Description:</b>	User will be able to receive application update.
<b>Trigger:</b>	SCM receives response from admin.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User has made application request
<b>Includes:</b>	M1-UC2, M1-UC4, M8-UC1, M8-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. SCM will run background service to receive update from government authorities.</li> <li>2. SCM will notify user of update.</li> <li>3. User will click on notification to see the update.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	1. If user has turned off notification's user will not see notification of update.
<b>Postconditions:</b>	POST-1. User will see updated response.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 92: Receive Update (Mobile).**

<b>Use Case ID:</b>	M8-UC12
<b>Use Case Name:</b>	Receive Update (Mobile)
<b>Actors:</b>	Primary Actor: SCM Secondary Actor: User
<b>Description:</b>	User will be able to receive application update.
<b>Trigger:</b>	SCM receives response from admin.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User has made application request
<b>Includes:</b>	M1-UC1, M1-UC3, M8-UC2, M8-UC4
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. SCM will run background service to receive update from government authorities.</li> <li>2. SCM will notify user of update.</li> <li>3. User will click on notification to see the update.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	1. If user has turned off notification's user will not see notification of update.
<b>Postconditions:</b>	POST-1. User will see updated response.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 93: Re-submit (Web).**

<b>Use Case ID:</b>	M8-UC13
<b>Use Case Name:</b>	Re-submit (Web)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to resubmit application.
<b>Trigger:</b>	User clicks RI-submit' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User has made application request
<b>Includes:</b>	M1-UC2, M1-UC4, M8-UC1, M8-UC3, M8-UC5, M8-UC7, M8-UC11
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User clicks on Re-submit button</li> <li>2. User fix the application form as per admin requirement.</li> <li>3. User press submit button.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user enters invalid CNIC prompt message will appear "Enter Valid CNIC"</li> <li>2. If user enters invalid Email prompt message will appear "Enter Valid Email"</li> <li>3. If user enters invalid Phone prompt message will appear "Enter Valid Phone"</li> <li>4. If user does not attach requirements error message will appear saying "Attach required documents"</li> </ol>
<b>Postconditions:</b>	POST-1. User will send updated application.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

**Table 94: Re-submit (Mobile).**

<b>Use Case ID:</b>	M8-UC14
<b>Use Case Name:</b>	Re-submit (Mobile)
<b>Actors:</b>	Primary Actor: User
<b>Description:</b>	User will be able to resubmit application.
<b>Trigger:</b>	User clicks 'Re-submit' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: User is logged in PRE-2: User has made application request
<b>Includes:</b>	M1-UC2, M1-UC4, M8-UC1, M8-UC3, M8-UC5, M8-UC7, M8-UC11
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User clicks on Re-submit button</li> <li>2. User fix the application form as per admin requirement.</li> <li>3. User press submit button.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If user enters invalid CNIC prompt message will appear "Enter Valid CNIC"</li> <li>2. If user enters invalid Email prompt message will appear "Enter Valid Email"</li> <li>3. If user enters invalid Phone prompt message will appear "Enter Valid Phone"</li> <li>4. If user does not attach requirements error message will appear saying "Attach required documents"</li> </ol>
<b>Postconditions:</b>	POST-1. User will send updated application.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	User owns the property.

#### 4.2.9 Module 9: Requests Management

Following are the tabular use cases for module 9 requests management

**Table 95: Create Admin Account.**

<b>Use Case ID:</b>	M9-UC1
<b>Use Case Name:</b>	Create Admin Account
<b>Actors:</b>	Primary Actor: SCM Secondary Actor: Admin
<b>Description:</b>	SCM will provide Admin account for managing employees in department
<b>Trigger:</b>	System is deployed
<b>Level:</b>	High
<b>Preconditions:</b>	N/A
<b>Includes:</b>	N/A
<b>Normal Flow:</b>	<ol style="list-style-type: none"><li>1. SCM will provide an admin account to manage organization</li><li>2. Account will have a default username and password</li></ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. If admin enters invalid username prompt message will appear “Enter Valid Username’</li><li>2. If user enters invalid password prompt message will appear “Enter Valid Password’</li></ol>
<b>Postconditions:</b>	POST-1. Admin will be able to login with provided email and password for first time.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Admin knows default username and password

**Table 96: First Login.**

<b>Use Case ID:</b>	M9-UC2
<b>Use Case Name:</b>	First Login
<b>Actors:</b>	Primary Actor: Admin, Employee
<b>Description:</b>	Actor will login with default username and password and change
<b>Trigger:</b>	Actor presses “login” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Actor has visited the portal
<b>Includes:</b>	M9-UC1
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Actor Enters default username and password.</li> <li>2. Actor sets new password.</li> <li>3. Actor confirms new password.</li> <li>4. Actor presses save changes.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If Actor enters invalid username prompt message will appear “Enter Valid Username’</li> <li>2. If Actor enters invalid password prompt message will appear “Enter Valid Password’</li> <li>3. If password does not match the password requirement prompt message will appear “Password must have 8 characters including digits, alphabets and special character”</li> </ol>
<b>Postconditions:</b>	POST-1. Admin will be able to login with new password.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors know the username and password.

**Table 97: Login.**

<b>Use Case ID:</b>	M9-UC3
<b>Use Case Name:</b>	Login
<b>Actors:</b>	Primary Actor: Admin, Employee
<b>Description:</b>	Actor will be able to login.
<b>Trigger:</b>	Actor presses “login” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Actor has visited the portal PRE-2: Actor has logged in before
<b>Includes:</b>	M9-UC1, M9-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Actor enters username.</li> <li>2. Actor enters password.</li> <li>3. Actor presses log in.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If Actor enters invalid username prompt message will appear “Enter Valid Username’</li> <li>2. If Actor enters invalid password prompt message will appear “Enter Valid Password’</li> </ol>
<b>Postconditions:</b>	POST-1. Admin will be able to manage employee. POST-2. Employee will be able to manage requests.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors know the username and password.



**Table 98: Forget Password.**

<b>Use Case ID:</b>	M9-UC4
<b>Use Case Name:</b>	Forget Password
<b>Actors:</b>	Primary Actor: Admin, Employee
<b>Description:</b>	Actor will be able reset password.
<b>Trigger:</b>	Actor presses “Forget Password” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Actor has visited the portal PRE-2: Actor has logged in before
<b>Includes:</b>	M9-UC1, M9-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Actor presses Forget Password.</li> <li>2. Actor enters OTP received on email.</li> <li>3. Actor enters new password.</li> <li>4. Actor confirms new password.</li> <li>5. Actor presses save changes</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If Actor enters invalid email prompt message will appear “Enter Valid Email”</li> <li>2. If Actor enters invalid OTP prompt message will appear “Enter Valid OTP”</li> <li>3. If password does not match the password requirement prompt message will appear “Password must have 8 characters including digits, alphabets and special character”</li> </ol>
<b>Postconditions:</b>	POST-1. Actor will be able to login with new password.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors has the working email

**Table 99: Update Profile.**

<b>Use Case ID:</b>	M9-UC5
<b>Use Case Name:</b>	Update Profile
<b>Actors:</b>	Primary Actor: Admin, Employee
<b>Description:</b>	Actor will be able to update profile.
<b>Trigger:</b>	Actor presses “Update Profile” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Actor has visited the portal PRE-2: Actor has logged in before
<b>Includes:</b>	M9-UC1, M9-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Actor presses Update Profile.</li> <li>2. Actor changed the information they want to change.</li> <li>3. Actor presses save changes</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If Actor enters invalid email prompt message will appear “Enter Valid Email”</li> <li>2. If password does not match the password requirement prompt message will appear “Password must have 8 characters including digits, alphabets and special character”</li> </ol>
<b>Postconditions:</b>	POST-1. Actor will be able to Update Profile.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors has logged in.

**Table 100: Add Employee.**

<b>Use Case ID:</b>	M9-UC6
<b>Use Case Name:</b>	Add Employee
<b>Actors:</b>	Primary Actor: Admin
<b>Description:</b>	Admin will be click on Add Employee to add employee.
<b>Trigger:</b>	Admin presses “Add Employee” button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Admin has visited the portal PRE-2: Admin has logged in before
<b>Includes:</b>	M9-UC1, M9-UC2
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Admin presses Manage Employee.</li> <li>2. Admin will see List of Employee</li> <li>3. Admin selects Add Employee</li> <li>4. Admin enters employee’s email</li> <li>5. Admin selects employee role</li> <li>6. Admin presses submit to add employee</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If Employees are not added “No Employee Added” will be seen instead of the list</li> </ol>
<b>Postconditions:</b>	POST-1. Employee will be able to login with username provided and default password
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors knows his employees.

**Table 101: Employee Role.**

<b>Use Case ID:</b>	M9-UC7
<b>Use Case Name:</b>	Employee Role
<b>Actors:</b>	Primary Actor: Admin
<b>Description:</b>	Admin will be click on Manage Employee.
<b>Trigger:</b>	Admin changes role from dropdown.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Admin has visited the portal PRE-2: Admin has logged in before PER-3: Admin has created employee account.
<b>Includes:</b>	M9-UC1, M9-UC2, M9-UC6
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Admin presses Manage Employee.</li> <li>2. Admin will see List of Employee</li> <li>3. Admin will change Employee role from dropdown</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>2. If Employees are not added “No Employee Added” will be seen instead of the list</li> </ol>
<b>Postconditions:</b>	POST-1. Admin will be able to manage employee.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors knows his employees.

**Table 102: Remove Employee.**

<b>Use Case ID:</b>	M9-UC8
<b>Use Case Name:</b>	Remove Employee
<b>Actors:</b>	Primary Actor: Admin
<b>Description:</b>	Admin will click on Manage Employee to Remove Employee.
<b>Trigger:</b>	Admin will be pressing 'x' button
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Admin has visited the portal PRE-2: Admin has logged in before PER-3: Admin has created employee account.
<b>Includes:</b>	M9-UC1, M9-UC2, M9-UC6
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Admin presses Manage Employee.</li> <li>2. Admin will see List of Employee</li> <li>3. Admin will press 'x' button.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>3. If Employees are not added "No Employee Added" will be seen instead of the list</li> </ol>
<b>Postconditions:</b>	POST-1. Admin will be able to manage employee.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors knows his employees.

**Table 103: View Request.**

<b>Use Case ID:</b>	M9-UC9
<b>Use Case Name:</b>	View Request
<b>Actors:</b>	Primary Actor: Employee
<b>Description:</b>	Employee will see the requests details.
<b>Trigger:</b>	Employee will press request from the list.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Employee has visited the portal PRE-2: Employee has logged in before PER-3: User has sent request.
<b>Includes:</b>	M9-UC2, M9-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Employee presses Manage Requests.</li> <li>2. Employee will see List of Requests.</li> <li>3. Employee clicks on request.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>4. If Requests are not received “No Requests” will be seen instead of the requests list</li> </ol>
<b>Postconditions:</b>	POST-1. Employee will be able to see the request detail.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors knows his employees.

**Table 104: Download/View Attachments.**

<b>Use Case ID:</b>	M9-UC10
<b>Use Case Name:</b>	Download/View Attachments
<b>Actors:</b>	Primary Actor: Employee
<b>Description:</b>	Employee will be able to Download/View Attachments sent by user with request.
<b>Trigger:</b>	Employee 'Download/View Attachments' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Employee has visited the portal PRE-2: Employee has logged in before PER-3: User has sent request.
<b>Includes:</b>	M9-UC2, M9-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Employee presses Download/View Attachments.</li> <li>2. Attachments Open</li> <li>3. Employee presses download button.</li> <li>4. Employee selects download location.</li> <li>5. Employee clicks save to save attachments.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If Requests are not received "No Requests" will be seen instead of the requests list</li> </ol>
<b>Postconditions:</b>	POST-1. Request verification process will start.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors knows his employees.

**Table 105: Update Request.**

<b>Use Case ID:</b>	M9-UC11
<b>Use Case Name:</b>	Update Request
<b>Actors:</b>	Primary Actor: Employee
<b>Description:</b>	Employee will send user the update on requests.
<b>Trigger:</b>	Employee 'Send Update' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Employee has visited the portal PRE-2: Employee has logged in before PER-3: User has sent request.
<b>Includes:</b>	M9-UC2, M9-UC3
<b>Normal Flow:</b>	6. Employee changes request status. 7. Employee types update message. 8. Employee clicks on send update.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	2. If Requests are not received "No Requests" will be seen instead of the requests list
<b>Postconditions:</b>	POST-1. Request update will be sent to user.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors knows his employees.



**Table 106: Terminate Request.**

<b>Use Case ID:</b>	M9-UC12
<b>Use Case Name:</b>	Terminate Request
<b>Actors:</b>	Primary Actor: Employee
<b>Description:</b>	Employee will terminate the requests.
<b>Trigger:</b>	Employee 'Terminate Request' button.
<b>Level:</b>	High
<b>Preconditions:</b>	PRE-1: Employee has visited the portal PRE-2: Employee has logged in before PER-3: User has sent request.
<b>Includes:</b>	M9-UC2, M9-UC3
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Employee changes status (Accepted/Rejected).</li> <li>2. Employee terminates request.</li> <li>3. Employee clicks on send update.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ol style="list-style-type: none"> <li>1. If Requests are not received "No Requests" will be seen instead of the requests list</li> </ol>
<b>Postconditions:</b>	POST-1. Request update will be sent to user.
<b>Business Rules</b>	N/A
<b>Assumptions:</b>	Actors knows his employees.