

**1. There is a set of requirements, please write test cases that would cover these requirements.**

- Users should be able to login if provided valid credentials. Users should not be able to login if credentials are invalid.
- Users should be able to login using SSO with Google accounts. In case the user doesn't exist in the system yet, the Member role should be assigned automatically. If the user with the same email exists in the system, no other role should be assigned automatically if SSO login is used. **Note:** During SSO login feature using, the user should provide valid email & pass for the chosen account. We have only Google SSO implemented – so it means, credentials from Google acc should be valid. However, this validation is implemented on Google side – not directly in our application.
- Users that have more than 100\$ on account balance should see an ad on the homepage.
- Only users with role "Handler" should have access to the "Coverage" feature.
- Only users with role "Member" should have access to the "Shop" feature.
- Main body of the page is a list of search results. Search results could be filtered and sorted by name. Default sorting is by date created.

**UI Details**

- Login page is a usual one e.g. it has fields login, password and button login. In addition, there is a "Login with SSO" button.
- Home page has a sidebar that provides access to different features such as "Coverage" like on the attached image.
- Search results have one text field where the user can input values to filter by. Sorting is done by pressing on the column header.



**2. During testing, some issues were found. Please create bug reports for these issues providing as much information as you would provide to an actual bug report. Mind the system allows the user to work with each feature via API as well so bugs may appear both in UI and API – you need to decide how you will describe the problem clearly enough to understand where it should be fixed.**

**Note:** *Providing mocks is also possible if you do not have the way to provide the actual stuff.*

**Note (2):** *For cases 2-4, that's necessary to provide exhaustive information about the root cause of the faced problem (such as any API requests attached for demonstrating where the issue happened (just a sample one with your own comments/notes), or some additional steps to understand the problem is only UI related, etc).*

- After accessing a feature\page, a 404 error is returned.
- Users with a role Member can access the feature "Coverage."
- Users with a role Handler can not access feature "Coverage" from the sidebar, but can access the feature through the interface on the home page body.
- User sees a wrong calculated amount to pay for elements added to the cart.
- Side bar has invalid color when opening the app as a user with the role "Handler".

## 1. UI, IT Testspec

Total cases: 28

[illegible]

## 2. Functional Testspec

ID#	Feature/Screen	Test point of view	Pattern Test	Pre-condition	Test Steps	Expected Results	Result
1	Login page	ID-Password authentication	Verify the login of users by credentials		1. Login with invalid credentials (ID/Username, password) 2. Click button [Login] or press [Enter]	Verify that user should NOT be able to login to the system, it should be stayed in Login page and an error message should be displayed.	
2	Login page	ID-Password authentication	Verify the login of users by credentials		1. Login with valid credentials (ID/Username, password) 2. Click button [Login] or press [Enter]	Verify that user should be able to login to the system, Home page should be opened.	
3	Login page	SSO authentication	Verify the login of users using SSO with Google accounts		1. Login using SSO with invalid Google account 2. Click button [Login] or press [Enter]	Verify that user should NOT be able to login to the system, it should be backed to Login page and an error message should be displayed.	
4	Login page	SSO authentication	Verify the login of users using SSO with Google accounts		1. Login using SSO with valid Google account that email NOT exists in the system 2. Click button [Login] or press [Enter]	Verify that user should be able to login to the system with role "Member", Home page should be opened.	
5	Login page	SSO authentication	Verify the login of users using SSO with Google accounts		1. Login using SSO with valid Google account that email already exists in the system 2. Click button [Login] or press [Enter]	Verify that user should be able to login to the system, Home page should be opened.	
6	Home page	Screen Display	Verify that users should/should NOT see an ad on the homepage	Login user role "Member" Account balance < 100\$	1. Login with user role "Member" 2. Inspect the homepage body, and Ad display area on the homepage body	. Verify that Home page should be displayed accordance to the UI design . Verify that ads should NOT be displayed on the Home page	
7	Home page	Screen Display	Verify that users should/should NOT see an ad on the homepage	Login user role "Member" Account balance >= 100\$	1. Login with user role "Member" 2. Inspect the homepage body, and Ad display area on the homepage body	. Verify that Home page should be displayed accordance to the UI design . Verify that ads should be displayed on the Home page.	
8	Coverage feature > Homepage	Screen Display	Verify that the feature corresponding to the role of login users should be accessed at initial status	Login user role "Handler"	1. Login with user role "Handler" 2. Inspect layout on the sidebar, homepage 3. Click to Coverage link/button	2. Verify that Coverage link/button should be displayed accordance to the UI design 3. Verify that Coverage page should be displayed accordance to the UI design at initial status.	
9	Coverage feature > Coverage page	Screen Function	Verify that the Search results is displayed correctly	Search results list has 0 record data	1. open Coverage page 2. Inspect the Search results list	2. Verify that layout of Search results list should be displayed accordance to the UI design	
10	Coverage feature > Coverage page	Screen Behavior	Verify that the behavior of Search results are correct		3. input value to text field 4. click to column header 5. Observe behavior of screen	Verify that there is no error occur	
11	Coverage feature > Coverage page	Screen Function	Verify that the Search results is displayed correctly		1. open Coverage page 2. Inspect the Search results list	2. Verify that Coverage search results list should be fully displayed	
12	Coverage feature > Coverage page	Screen Function	Verify that the behavior of Search results are correct	Search results list has >100 records data	3. input value to text field 4. click to column header 5. Observe behavior of screen	3. Verify that the data on table search results is filtered by inputed value 4. Verify that the data on table search results is sorted correctly by clicked column	

13	Shop feature > Homepage	Screen Display	Verify that the feature corresponding to the role of login users should be accessed at initial status	Login user role "Member"	1. Login with user role "Member" 2. Inspect Ad display area on the sidebar, homepage 3. Click to Shop link/button	2. Verify that Shop link/button should be displayed accordance to the UI design 3. Verify that Shop page should be displayed accordance to the UI design at initial status.	
14	Shop feature > Shop page	Screen Function	Verify that the Search results is displayed correctly	Search results list has 0 record data	1. open Shop page 2. Inspect the Search results list	2. Verify that layout of Search results list should be displayed accordance to the UI design	
15	Shop feature > Shop page	Screen Behavior	Verify that the behavior of Search results are are correct		3. input value to text field 4. click to column header 5. Observe behavior of screen	Verify that there is no error occur	
16	Shop feature > Shop page	Screen Function	Verify that the Search results is displayed correctly		1. open Shop page 2. Inspect the Search results list	2. Verify that Shop search results list should be fully displayed	
17	Shop feature > Shop page	Screen Function	Verify that the behavior of Search results are are correct	Search results list has >100 records data	3. input value to text field 4. click to column header 5. Observe behavior of screen	3. Verify that the data on table search results is filtered by inputed value 4. Verify that the data on table search results is sorted correctly by clicked column	

### 3. Issues List

ID#	Issue Summary	Cause, Level - Scope of impact	Issue Ticket	Severity	Notes
1	After accessing a feature\page, a 404 error is returned.	<p>[initial guess] below are some possible causes, need to be provided more about steps, environment, or evidence to reproduce and define the cause</p> <p>. The URL used to access the feature or page might be mistyped or outdated (cache, cookies issue...)</p> <p>. There might be issues with the backend server, such as database, network connection problems or server downtime, the requested resource is moved...</p> <p>. There might be a permissions issue. The user accessing the feature or page might not have sufficient permissions to view it</p> <p><b>Example Issue:</b> login user with role "Member", specify url of Coverage page to view it.</p> <p><i>Missing process in code of Coverage page:</i> if role of login user is not role "Handler", it should be redirected to Authority error page</p>	<p><b>[Issue Subject]</b> Member role user login, specify url of Coverage page, a 404 error is returned instead of Authority error page</p> <p><b>[Reproduce Steps]</b></p> <ol style="list-style-type: none"> <li>1. Login with Member role user</li> <li>2. specify url of Coverage page on URL bar of browser, press Enter</li> <li>3. a 404 error page is displayed (NG)</li> </ol> <p><b>[Expected Results]</b></p> <p>in step 3. Authority error page should be displayed</p>		
2	Users with a role Member can access the feature "Coverage."	<p><b>Example Issue:</b> Issue in Front End side of Home Page (body), Sidebar, Coverage. Button/link, the Coverage page of the feature "Coverage" should only displayed if role of login user that returned from api is Handler</p>	<p><b>[Issue Subject]</b> Users with a role Member can access the feature "Coverage."</p> <p><b>[Reproduce Steps]</b></p> <ol style="list-style-type: none"> <li>1. Login with Member role user</li> <li>2. On Sidebar, clicking button [Pages] &gt; [Coverage] or click link/button [Coverage] on Home Page or specify url in URL bar of browser</li> <li>3. Coverage page is opened (NG)</li> </ol> <p><b>[Expected Results]</b></p> <p>in step 2. On Sidebar, Home Page body: button/link [Coverage] should not be displayed</p> <p>in step 3. Coverage page should be displayed, it should be redirected to Authority error page</p> <p><b>[Scope of impact]</b></p> <p>Home Page, Sidebar, Coverage page</p>		
3	Users with a role Handler can not access feature "Coverage" from the sidebar, but can access the feature through the interface on the home page body.	<p><b>Example Issue:</b> On Sidebar, clicking button [Pages], [Coverage] is displayed, but if clicked, nothing is happen</p>	<p><b>[Issue Subject]</b> Not yet handle click event for button [Coverage] on sidebar</p> <p><b>[Reproduce Steps]</b></p> <ol style="list-style-type: none"> <li>1. Login with Handler role user</li> <li>2. On Sidebar, clicking button [Pages] &gt; [Coverage]</li> <li>3. Nothing is happen (NG)</li> </ol> <p><b>[Expected Results]</b></p> <p>in step 3. Coverage page should be displayed</p>		
4	User sees a wrong calculated amount to pay for elements added to the cart.	<p><b>Example Issue:</b> Price info of element on list screen is get from api, current-price is \$87 discount is -52%, origin-price is \$178</p> <p>On the Shop screen, price of element is displayed \$87(-52%), after add to My cart, price of element is displayed as \$178</p>	<p><b>[Issue Subject]</b> mapping value for item Price of element on My cart list is not correct</p> <p><b>[Reproduce Steps]</b></p> <ol style="list-style-type: none"> <li>1. Login with Member role user</li> <li>2. In data table on Shop page, price of element (value of current-price in api) is displayed .eg: \$87 (-52%)</li> <li>3. Add element to Cart, price of element on My cart list is value of origin-price in api .eg: \$178 (NG)</li> </ol> <p><b>[Expected Results]</b></p> <p>in step 3. Price of element on My cart list should be value of current-price in api</p>		
5	Side bar has invalid color when opening the app as a user with the role "Handler".	<p><b>Example Issue:</b> On Sidebar, when opening the app as a user with the role "Handler", color is #CF9FFF instead of correct color #BF40BF</p>	<p><b>[Issue Subject]</b> color-theme of sidebar is not correct when login with user role "Handler"</p> <p><b>[Reproduce Steps]</b></p> <ol style="list-style-type: none"> <li>1. Login with Handler role user</li> <li>2. On Sidebar, color-theme of sidebar is #CF9FFF (NG)</li> </ol> <p><b>[Expected Results]</b></p> <p>in step 2. color-theme of sidebar should be #BF40BF, unified in system</p>		