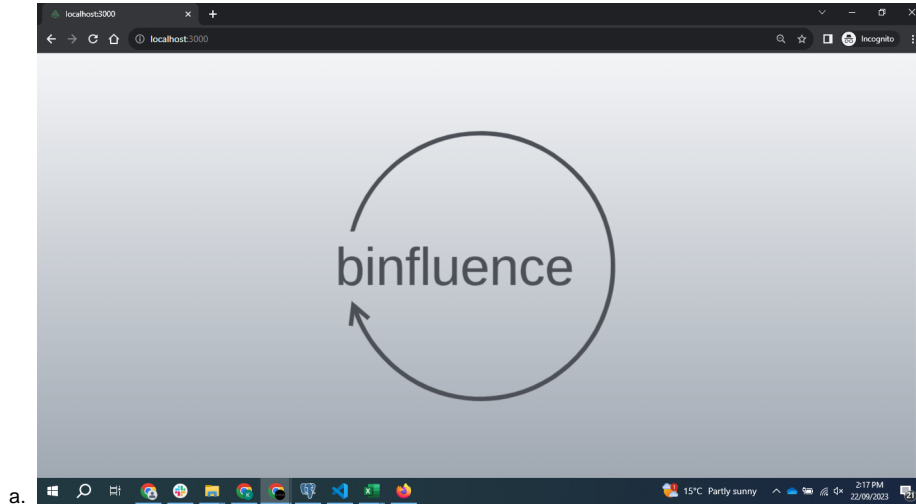


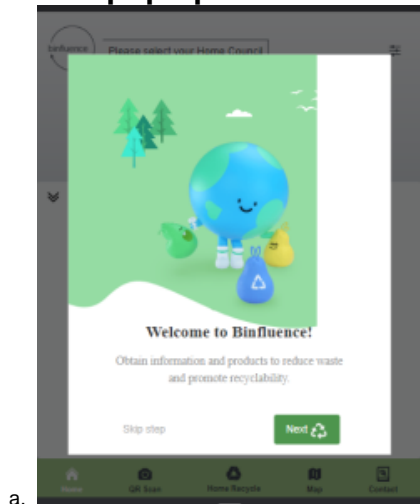
System Testing - report

Test cases with screenshots

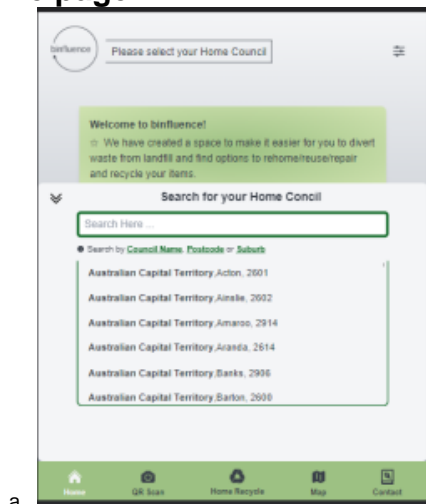
1. Splash Screen

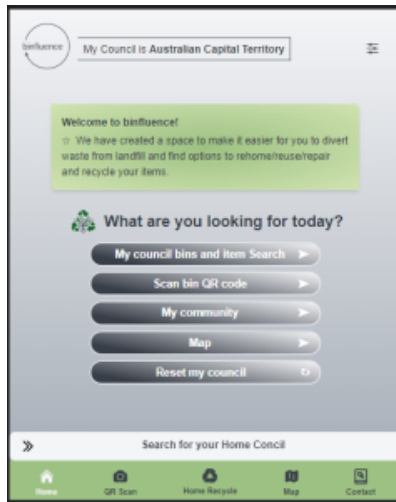


2. Welcome pop up screen



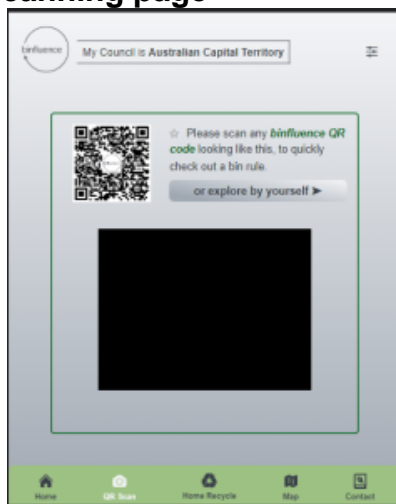
3. Home page





b.

4. QR scanning page



a.

5. Home Recycle page



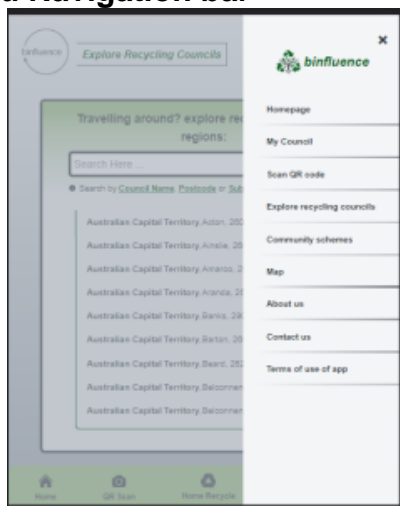
a.

6. Contact/ About Us page



a.

7. Menu Navigation bar



a.

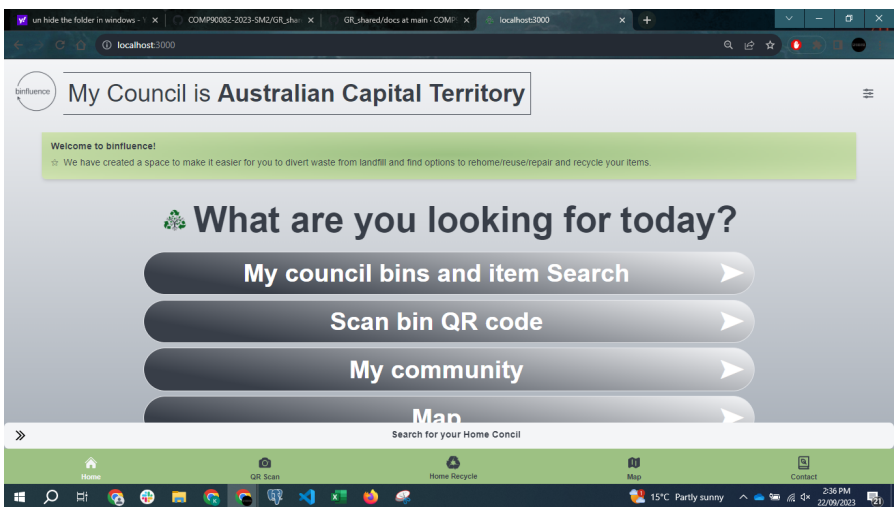
Testcase ID	Components	Scenerio Description	Expected Results	Observed Result	Status
1	Splash Screen	On loading the application	An animated binfluence logo should be loaded on opening the application	An animated binfluence logo is loaded on opening the application	Pass
2	Welcome pop up screen	For the first time users of the application	Next to the splash screen pop of should appear with smooth transition between 3 three pop ups	First time users were able to see a welcome pop up with with smooth transition between 3 three pop ups	Pass
		For the regular users of the application	For regular user welcome pop should not appear	welcome pop up does not appears for regular users	Pass

3	Home page	For first time users	The home page should contain an introduction about the application and user can set their home council to be remembered then on. Links to other pages should be provided	The home page contains an introduction about the application and first time users are able to set their home council to be remembered then on. Links to other pages are provided	Pass
		For regular users	On the Home screen regular user's home council should be remembered and links to other pages also given. Regular users can also reset their home council by selecting the reset option on the home page.	For regular users their home council is remembered each time they open the application and links to other pages are also working correctly. On selecting the reset option the home council is reset perfectly.	Pass
4	QR scanning page	Scanning the QR code a valid QR code	An example QR code to familiarize the users is provided on the QR scan page and on scanning a valid QR code of binfluence it redirects to the can/can't list. If an invalid code is scanned it should pop up indicating to scan a valid QR code	On scanning an invalid QR code it indicated to scan a valid code. On scanning a valid code it takes to the can/can't list of that bin.	Pass
		exploring tab on the QR scan page	Enables user to explore other region's recycling rules while they are on travel	Explore tab works fine on searching any other council by redirecting to bins list	Pass
5	HomeRecycle page	For first time users			Pass
		For regular users	Home recycle page should provide a list of bins in their home council with each bin having a detailed can/can't go in list. And also a search bar should be present for users to search with the item name	List of bins in their home council are listed with each bin having a detailed can/can't go in list. Search by item names also works fine.	Pass
					Pass
6	Contact/ About Us page	For all the users despite of the selection of home councils	On the About us section a brief description about the project should be present	A brief description is present and also a visit us link that takes to the GreenQueen website is also present	Pass
		For users to submit a feedback form	User should be able to submit a feedback form on the contact us page	The feedback form allows users to submit a feedback.	Pass

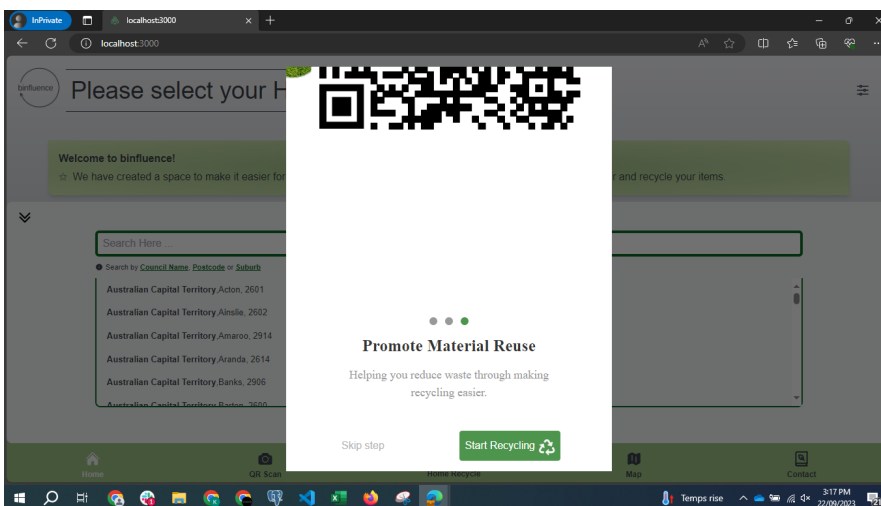
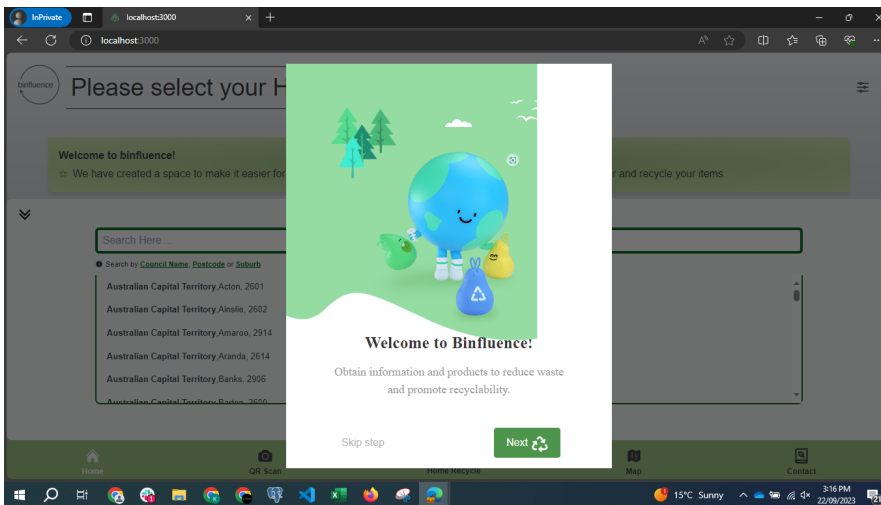
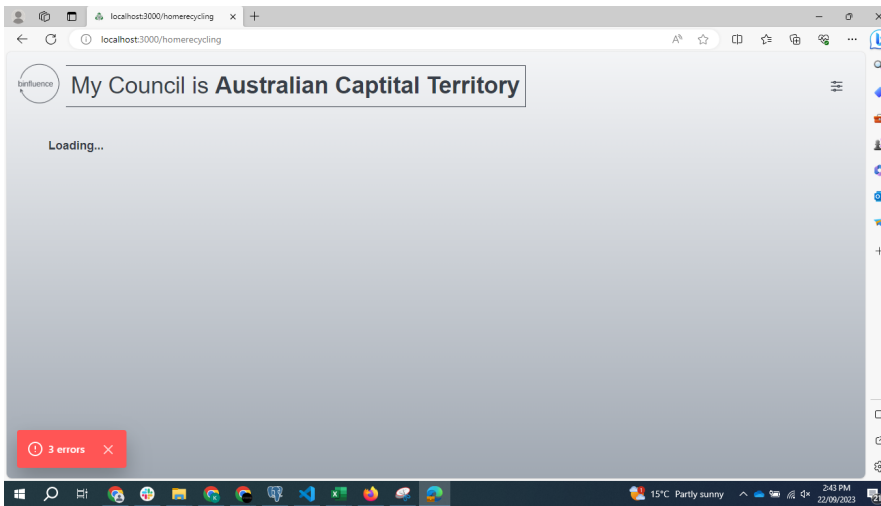
7	Menu Navigation bar	For first time users before selecting a home council	The users should be redirected to select a council before exploring recycling councils and reset of the links should be redirect to that particular pages	For users those who have not selected any home council the explore recycling council redirected to the home council selection component on the home page	Pass
		For users after selecting the home council	After user selects a home council or if the home council is remembers incase of regular users each link on the menu navigation bar should redirect to appropriate pages	For all other users the navigation takes to that particular pages on selecting.	Pass

Compatibility Testing:

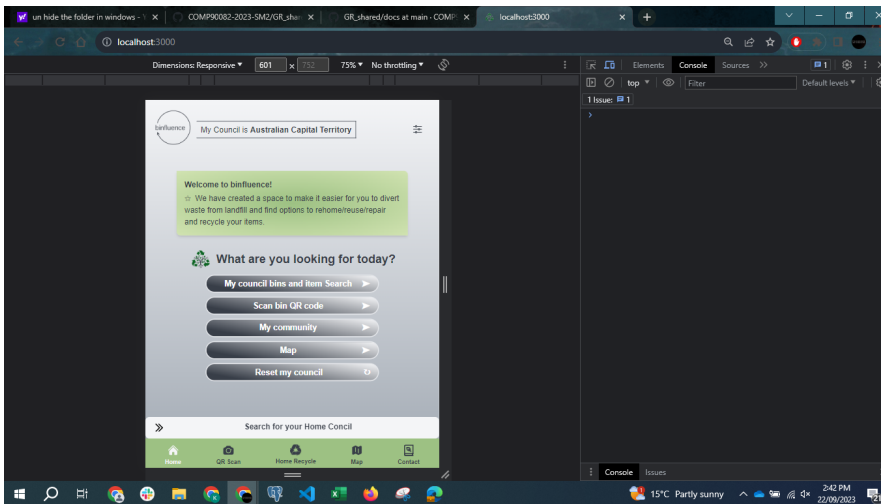
- The web application has undergone testing across various browsers, including Chrome, Edge, and Safari. During these tests, the core functionalities of the application have proven to function as expected on chrome whereas there some unpredicted errors on edge. However, there is room for improvement in the user interface components, particularly in terms of performance and aesthetics. The goal is to enhance the visual appeal and ensure that these components seamlessly adapt to the user's browser environment.
- Test on chrome**



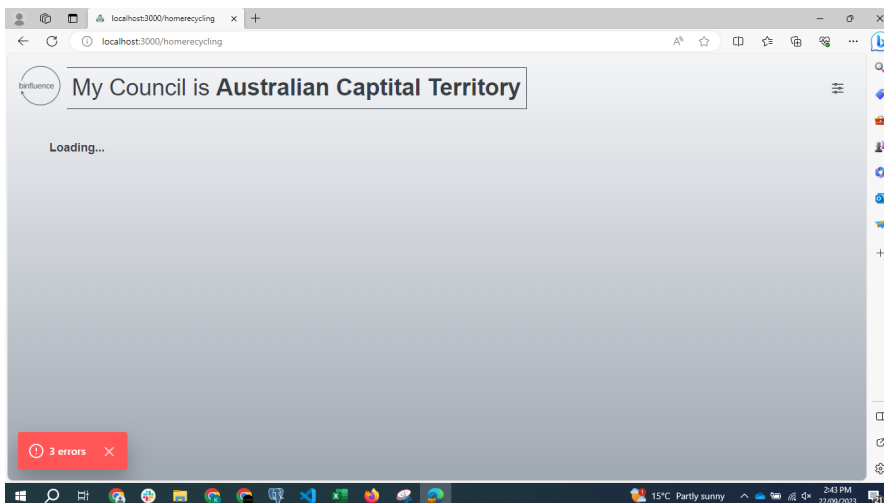
- Test on edge**



- The application has undergone compatibility testing using various developer tools to ensure it functions well on different devices. While the user interface (UI) appears satisfactory when tested in mobile development mode, there are identified issues when tested in web development mode. Consequently, there is a need for UI improvements to enhance the web version of the application.
- **Mobile development mode**



- **Web development mode**



Other types of errors faced during development

- **Typescript errors:**
Since we were using typescript the compiler throws errors with types due to safety reasons. Many of the bugs were trying to call null values or potential null values in the code. While these are suppressed during development, these are registered as typescript transpiler errors during build.
- **React errors:**
React requires a key attribute with every child component rendered as a product of the map function (or any generator). This is due to rendering optimisations during build. While not an issue and only throws a warning in development. It is a build error where the build will fail.
- **Context errors:**
Errors due to how we were using server side and client side components. There were hydration issues due to inconsistency in server and client side. Also trying to declare context where there was none or null.
- **Unadded components:**
Developers used packages with local dependencies and forgot to append packages to the package manager.
- **General consistency errors:**
Fixed some performance issues such as retightening potential expensive renders each time. Moving files into correct directories.