

# Southern Cross Health Society

## Developer Technical Challenge

At Southern Cross, we tackle big problems within the insurance domain every day. Some problems require out of the box thinking to solve. Keeping this in mind, this technical challenge presents you a small real-world problem and gives you the flexibility to develop a solution. This challenge also considers your ability to communicate and present your solution to your team. We would like you to include important aspects of your thinking and problem-solving abilities with the submission of your solution. If you prefer, you can add these in your project's readme (README.md). Here are some examples of things you could add:

- Considerations & Decisions.
- Limitations.
- Design patterns.
- What you could have improved on.

### The Challenge

- Create a single page application based on the wireframe and functional requirements provided below.
- The application should enable the user to search for a member using the member's policy number as a query parameter and view the information on the member returned from the search. The user might also find it beneficial to iterate through previous search results.
- Use a framework/library of your choice. (e.g. Angular)
- Create a simple RESTful Web API for the member search, using your preferred technology. (e.g. Node.JS/Express)
- The API endpoint should accept query parameters policyNumber and memberCardNumber
- Use a simple Json database technology (e.g. lowdb or similar) with the provided MOCK\_DATA.json file for the data source.
- (Optional Task) Deploy your application to a cloud provider of your choice e.g. (Azure), and send us the URL.

## Wireframe

The wireframe illustrates a mobile application with three main screens, each with a status bar at the top labeled 'sx app'.

- Member Search:** Features a hamburger menu icon, a title 'Member Search', a 'Service Date' field with a calendar icon (showing '12. May 2016'), a 'Search using' section with 'Policy Number' (input: '12345678') and 'Member Card Number' (empty) fields, and 'Search' and 'Reset' buttons.
- Search Results:** Features a hamburger menu icon, a title 'Search Results', and two result cards. The first card shows: First name: Ynkjmk, Last name: Lesdee, Date of birth: 09/01/1988. The second card shows: First name: Jesdfti, Last name: Giscime, Date of birth: 19/11/1988.
- Menu:** Features a back arrow icon, a title 'Menu', and two list items: 'Member Search' and 'Search Results'.

## Functional requirements

### Navigation

- Clicking on the Menu icon displays the Menu page
- The items on the Menu page navigate to the Member Search and Search Results pages

### Member Search Form

- Policy Number is a required field
- Policy Number should be a number
- Clicking the Search button displays the Search Results

## Submission

- Complete the development challenge.
- If you are up for an extra challenge complete the optional task.
- Limit your time spent on the challenge. Do not spend more than 3 hours on the challenge, we care about your wellbeing first and foremost.
- Push your code to a public repo, include the steps to run your application in README.md and send us the URL.
- Your submission will be evaluated on: Clean Code, CSS, Responsive Design, State Management, Unit Tests, and you're thinking and problem-solving abilities.