# **Manual Test Plan**

## **Prerequisites**

- 1. Intellij IDE
- 2. React Native
- 3. Ехро
- 4. npm version 6.14.4

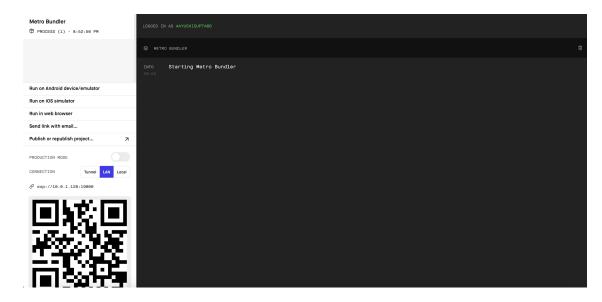
## **Environment Setup and configurations**

- Mac OS environment
- Conduct manual testing by manually validating each functionality by creating and executing test cases. (<a href="https://reqtest.com/testing-blog/gui-testing-tutorial/">https://reqtest.com/testing-blog/gui-testing-tutorial/</a>)

## Operations and the results

#### **MOBILE APPLICATION**

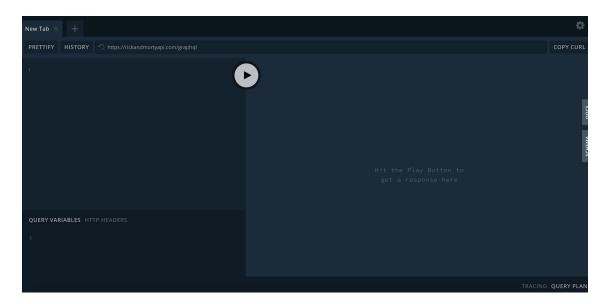
- The mobile app uses React Native an open-source, front end, JavaScript library
- In order to view the mobile app locally, you must run <a href="expo">expo</a> start within the mobile-app directory
- The following webpage will open



 You can either run the iOS simulator or use the QR code on your own mobile device to access the mobile app locally

#### **GRAPHQL EXPLORER**

- The application uses GraphQL open-source data query and manipulation language for APIs
- In order to test the queries developed, you must use the GraphQL explorer provided
  - https://rickandmortyapi.com/graphql
- The webpage will look like this
  - The query input on the top left
  - The query variables on the bottom left
  - The response on the right



### Test Items

#### **MOBILE APPLICATION**

- 1. Check if the React App was set up properly
  - a. Run expo start and open the iOS simulator
  - b. Make sure the app renders successfully (success)



- 2. Check if the detailed character query works
  - a. Enter the **GET\_PROFILE** query from ProfileParser.ts under the query input
  - b. Enter { "id": 4 } under query variables
  - c. Click the play button and make sure the output returns the information for the character with the id=4 (success)

```
v "data": {
v "character": {
    "id": "4",
    "name": "Beth Smith",
    "status": "Alive",
    "species": "Human",
    "type": "",
    "gender": "Female",
    "origin": {
        "id": "20",
        "name": "Earth (Replacement Dimension)"
    },
}
```

- 3. Check if the detailed location query works
  - Enter the GET\_LOCATION query from LocationParser.ts under the query input
  - b. Enter { "id": 4 } under query variables
  - c. Click the play button and make sure the output returns the information for the location with the id=4 (success)

- 4. Check if the detailed episode query works
  - a. Enter the GET\_EPISODE query from EpisodeParser.ts under the query input
  - b. Enter { "id": 4 } under query variables
  - c. Click the play button and make sure the output returns the information for the episode with the id=4 (success)

- 5. Check if the character query works
  - Enter the GET\_CHARACTERS query from CharactersParser.ts under the query input
  - b. Enter { "page": 1 } under query variables
  - c. Click the play button and make sure the output returns the information for the first 20 characters (success)

- 6. Check if the visualization query works
  - a. Enter the *GET\_VISUALIZATION* query from VisualizationParser.ts under the query input
  - b. Enter { "ids": [1, 2, 3, 4, 5] } under query variables
  - c. Click the play button and make sure the output returns the characters for the first5 episodes (success)

- 7. Check if the search query works
  - a. Enter the **GET\_SEARCH** query from SearchParser.ts under the query input
  - b. Enter { "name": "Rick", "character": true, "location": false, "episode": false } under query variables
  - c. Click the play button and make sure the output returns the characters matching the name "Rick" (success)