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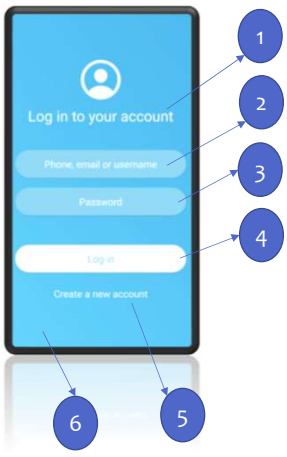
What is Unit Testing?

- ✓ There are a few ways to test React components. Broadly, they divided into two categories:

1) **Rendering component trees** in a simplified test environment and asserting on their output.
2) **Running a complete app** in a realistic browser environment (also known as "end-to-end" tests)

- ✓ Jest, React Native Testing Library are few testing libraries.
- ✓ **Jest** is a JavaScript test runner that lets you access components and their properties tree.



Unit Testing Configuration

1) npm install --save-dev @testing-library/react-native
2) npm install --save-dev @testing-library/jest-native
3) jest.config.js: (in root directory)

```
module.exports = {
    preset: "react-native",
    moduleFileExtensions: ['ts', 'tsx', 'js', 'jsx', 'json', 'node'],
    setupFilesAfterEnv: ["@testing-library/jest-native/extend-expect"],
    "transformIgnorePatterns":
            [ "node_modules/(?!(@react-native|react-native|react-native-vector-icons)/)"
    ]
}
```

4) Update the scripts for continuous testing:

```
    "scripts": {
            "test": "jest --watchAll -u"
    },
```

Test Cases

- 1.Rendering Components
- 2.Snapshot Testing
- 3.Query Testing
- 4.Props Testing
- 5.States Testing
- 6.Functions Testing
- 7.API Calls Testing

Reference: https://callstack.github.io/react-native-testing-library/docs/api-queries

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