

React Native

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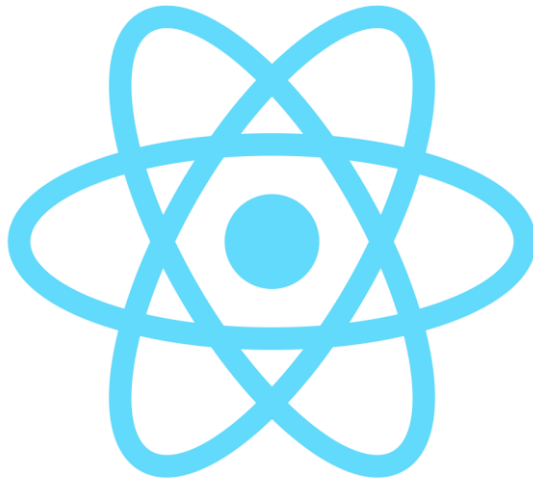
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What Is React Native

- Framework for building native Android and iOS app using React
- Render native UI elements instead of DOM elements
- Highlights extensibility of React
- Preserving the native look and feel of the mobile experience



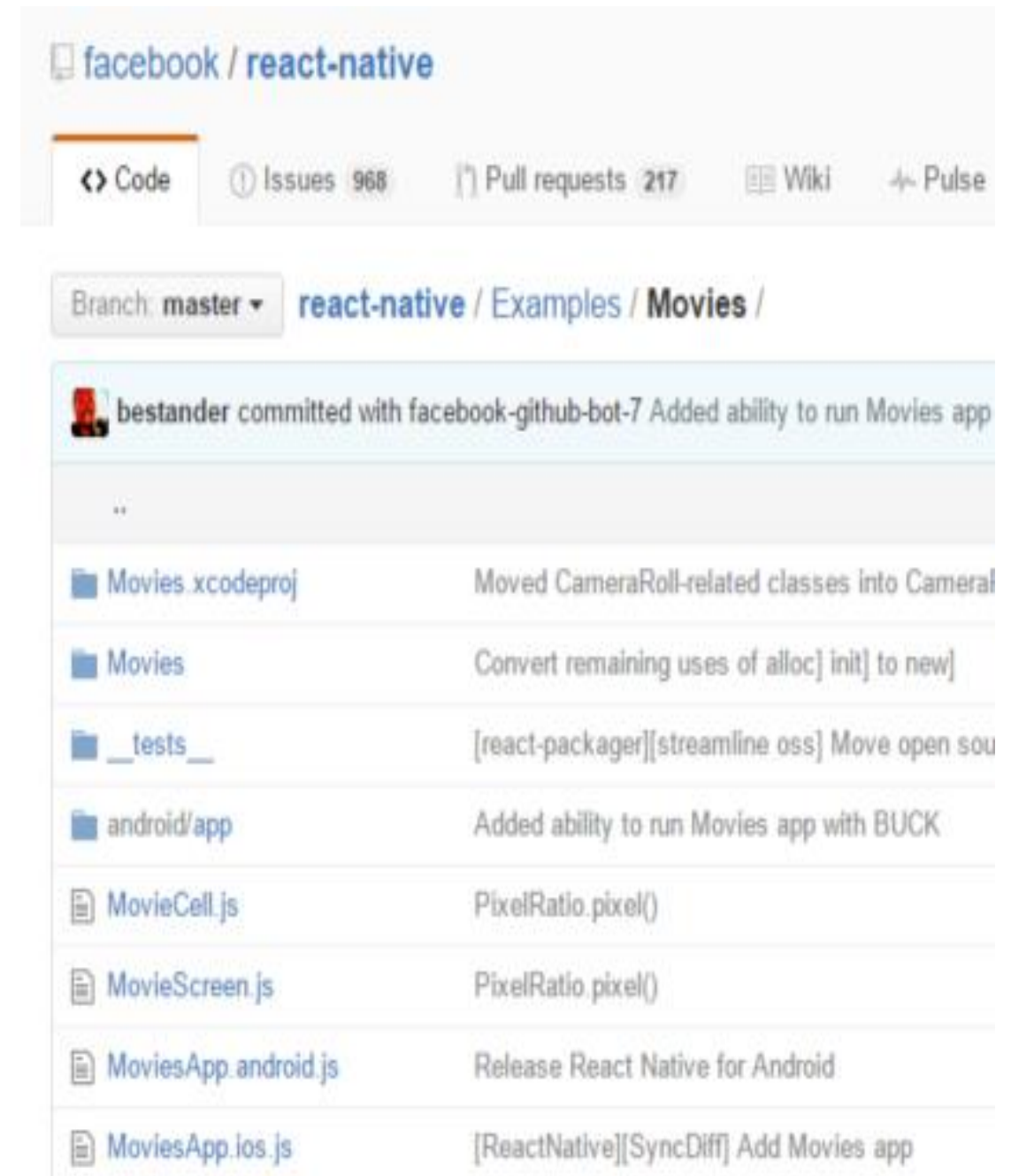
Why Not Stay Fully Native?

- “Learn once, write anywhere”
- Write UI logic once and share between iOS and Android
- Retains the flexibility of the full iOS and Android native development kits
- “Developer efficiency across all the platforms you care about”

How Do I Do This

Both iOS and Android projects are in the same repository.

Also notice the `.android.js` and `.ios.js` extensions which are used to differentiate platform specific code.



The screenshot shows the GitHub repository for `facebook/react-native`. The top navigation bar includes links for `Code`, `Issues` (968), `Pull requests` (217), `Wiki`, and `Pulse`. Below this, the branch is set to `master`, and the path is `react-native / Examples / Movies`.

A commit by `bestander` is shown, committed with `facebook-github-bot-7`. The commit message is "Added ability to run Movies app".

The commit details show a list of files and folders that were changed:

File/Folder	Commit Message
<code>..</code>	
<code>Movies.xcodeproj</code>	Moved CameraRoll-related classes into CameraRoll
<code>Movies</code>	Convert remaining uses of <code>alloc init</code> to <code>new</code>
<code>__tests__</code>	[react-packager][streamline oss] Move open source
<code>android/app</code>	Added ability to run Movies app with BUCK
<code>MovieCell.js</code>	<code>PixelRatio.pixel()</code>
<code>MovieScreen.js</code>	<code>PixelRatio.pixel()</code>
<code>MoviesApp.android.js</code>	Release React Native for Android
<code>MoviesApp.ios.js</code>	[ReactNative][SyncDiff] Add Movies app

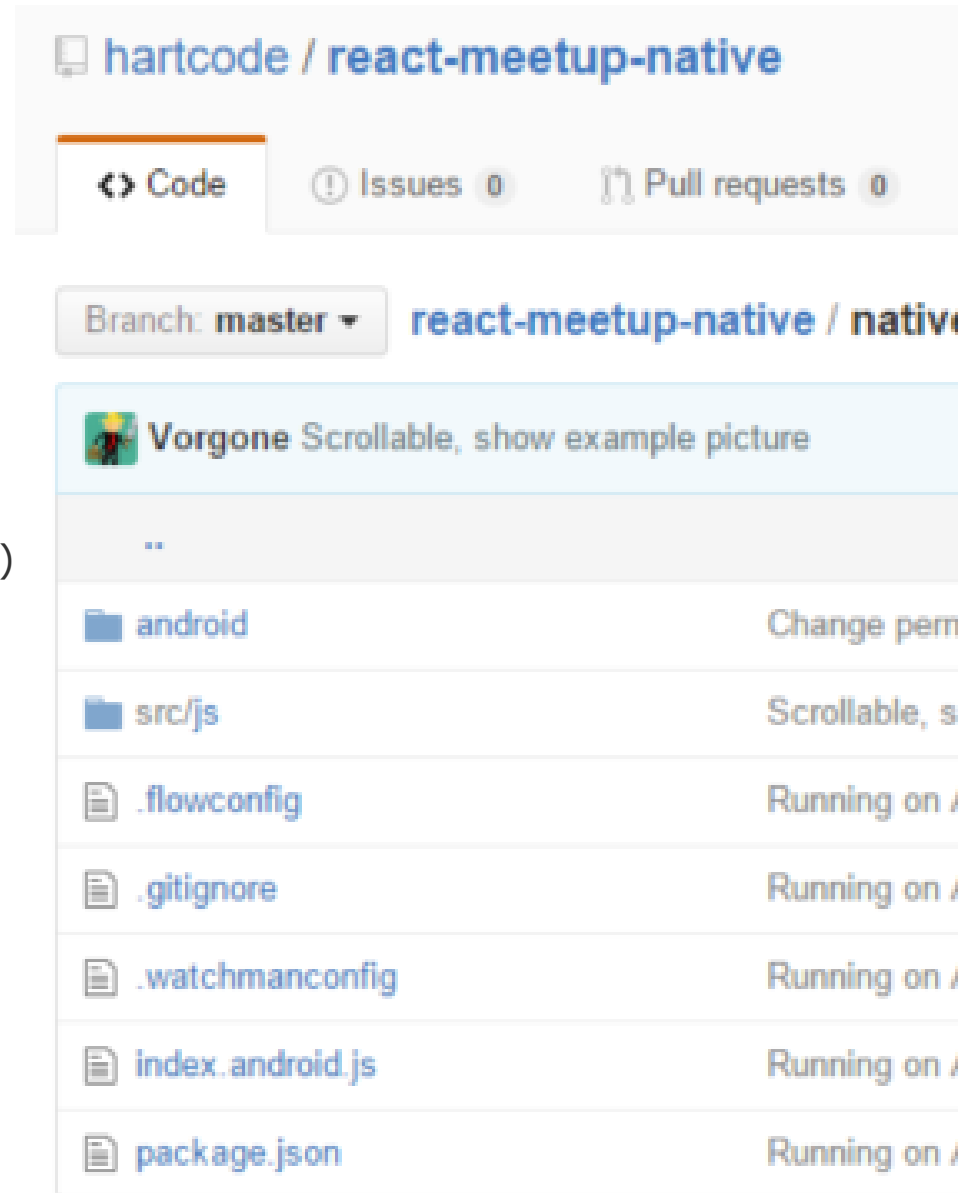
Project Structure

<https://github.com/hartcode/react-meetup-native>
index.android.js

```
AppRegistry.registerComponent('ReactMeetupNativeProject', () => Root)
```

Android Activity

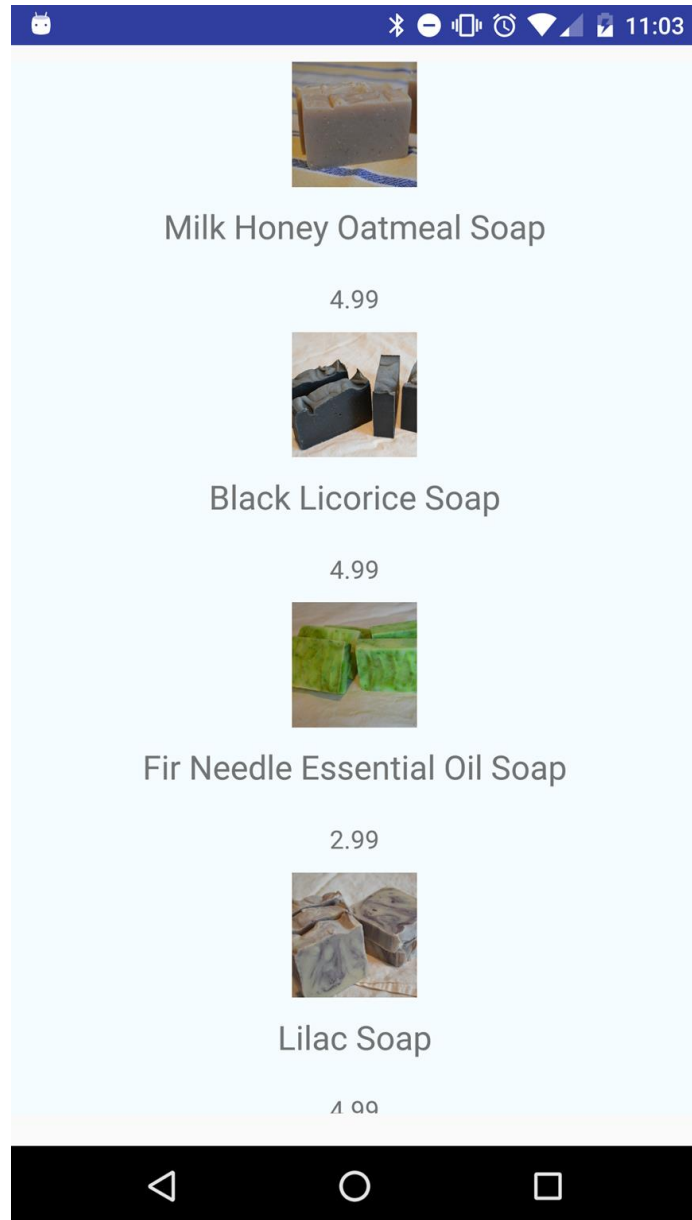
```
public class MainActivity extends ReactActivity {  
    @Override  
    protected String getMainComponentName() {  
        return "ReactMeetupNativeProject";  
    }  
}
```



Rendering Native UI Components

```
export default class Item extends Component {  
  ...  
  render() {  
    const { item } = this.props;  
    return (  
      <div>  
        <h1>  
          {item.title}  
        </h1>  
      </div>  
    );  
  }  
}
```

```
export default class Item extends Component {  
  ...  
  render() {  
    const { item } = this.props;  
    return (  
      <View style={styles.container}>  
        <Text style={styles.title}>  
          {item.title}  
        </Text>  
      </View>  
    );  
  }  
}  
  
const styles = StyleSheet.create({  
  container: {  
    backgroundColor: '#F5FCFF'  
  },  
  title: {  
    fontSize: 20,  
    textAlign: 'center',  
    margin: 10  
  }  
});
```

Things We Learned

- Reduced package.json file
- React-Native has it's own fetch.
- Uses React Native Client for bundling
- Hot Loading

Featured Apps



Facebook created React Native and will continue investing in it

Where to go from here

React Native Webpage

<http://facebook.github.io/react-native/>

Twitter

@reactjs

Newsletter

<http://brentvatne.ca/react-native-newsletter/>