EE / CprE / SE 491 – sdmay19-02

CONVERT NATIVE MOBILE APP TO REACT NATIVE

Week 08 Report

October 22nd - October 29th

Client: Buildertrend (Rich Kalasky & Jake Johnson)

Faculty Advisor: Mai Zheng

Team Members:

Victor Amupitan — Chief Engineer of Design

Lucas Kern — Executive Meeting Facilitator

Michielu Menning — Lead Report Manager

Kyle Nordstrom — Co-Team Lead/Meeting Scribe

Francis San Filippo — Scrum Master

Walter Seymour — Co-Team Lead/ Team Communications Leader

Weekly Summary

Our team was able to get into a steady development process during this week. We all have assigned tasks, and made merge requests, and continue to pick up tasks. We are also working on intercepting the API, but are hopeful our client can give us more help with this. We also worked to update our project plan, now that we have an idea of how our development process happens in action.

Past Week Accomplishments

- Created smaller components for application
    - Created a toggle button for reuse throughout our project - Lucas
    - Created helper components for the menu - Victor
- Created components for the main pages of the application
    - A functioning menu that we will be able to put experiences in - Victor
    - A login page that will be the start of the application - Walter
- Creating component for home page buttons - Michielu
- Watching API calls
    - Able to see the responses of some of the API calls (login) - Frank
    - May talk to Buildertrend about an easier way to do this
- Starting Developing a UI Design
    - Outline for future components
- Decided on Testing Framework

- ○ Decided on using Enzyme
- ○ Possibly look into some other helpful smaller frameworks
- ○ Look into react-native-debugger

Pending Issues

- Connect the major and sub-components
- Need to continue to watch API calls
- Enable routing between major components (screen components)
- Look into functional testing
- Enable authentication for components that are not public

Individual Contributions

Team Member	Contribution Weekly (Brief list of contributions)	Hours	Total Hours
Victor Amupitan	Worked on creating major layout components like the experience component and the sidebar component. Created both data flow and UI of the experience component which controls how screen components are created.	**12**	**69**
Lucas Kern	Worked on familiarizing myself with the project by creating a micro-component which was a toggle button in React Native. Looked into how Yarn and React Native work together as well as TypeScript.	**8**	**57**
Michielu Menning	Working on creating a home button component that uses Jest, Typescript. Figuring out styling and placement for components. Researched Typescript, Jest, and specific React Native stuff	**9**	**60**
Kyle Nordstrom	Looked into how redux works and how it will be used in the application, began exploring the differences of TypeScript and JavaScript, discussed the project status with Mai Zheng	**7**	**53**
Francis San Filippo	Set up the React Native Debugger and implemented features to capture network calls made by react native app.	**7**	**56**
Walter Seymour	Create and merge the login page, Research Typescript best practices, updated the project plan, research redux best	**8**	**56**

	practices		

Plans for Coming Week

- Connect sub-components to major components
  - Connect Welcome and Login Component to Home Component
  - Toggle Button - Lucas
- Continue to Watch API calls
  - Keep intercepting using method, watch API calls from BT app
  - Contact Rich about possible list of API
- Look into functional testing
  - Look into Appium for functional testing the app
  - Start looking at frameworks for functional testing
  - Compare them to Appium
- Decide on routing for switching between pages/components
  - Look into testing frameworks to navigate (react-navigation).
  - Attempt to implement the decided method of routing
- Continue developing individual components
  - Continue assigning ourselves tasks that we have created
  - Develop these components with the BT functionality

Summary of weekly advisor meeting

Our entire team met up with our advisor and partook in a 20 minute long meeting. We discussed the recent accomplishments that our team has achieved, and future tasks. We also discussed some minor problems we have run into, and how communicating with our client may help to solve them. The main purpose of this meeting was to update Mai on our progress.