React Madness

In this report we decided to implement the basic functionalities of the web service such as:

* Authentication and registration
* Getting projects for the logged user from the database
* Creating a new project from scratch
* Modifying the new created project with adding a control (button) on the first page of the application
* Save and manage all changes on the service side
* Making a release application (.apk file) from the modified sources

In this phase, we added as a module the react native generator, which is responsible for managing all operations with the generated project, including modifying the sources, building the application, replacing controls (buttons, text elements, etc.) and making release files (.apk file).

This generator works directly with the react-native tools, and also represents a layer between the web service and the generated mobile project. We plan to create a database of controls that are basically text files with specific markers that will allow us to insert controls at certain positions and personalize them. One tricky bit will be creating handlers for actions that are related to controls, and also linking multiple controls to one another.