**Summary of the implementation:**

The dice game called “react-diceZ” which is developed by using Reactjs. I used Visual Studio Code and chrome React Developer Tools for the debugging.

**Implementation**

**File structure:**

* ./scr/components/Dice.js (access all dice images in the Assets folder)
* ./scr/components/Status.js (show the winner and the next player’s turn)
* ./src/App.js (all the program logic)

I have selected ReactJS and the game state stored in component state.

**Tools**:

This project was built using Create-React-App, hosted on Github pages, using Git for version control and code repository, yarn for packaging and deployment.

**Challenges**:

Actually, I don’t have much experience on Reactjs. Therefore, I spent a lot of time on the Reactjs implementation by fulfilling the requirements and specification of the dice game.

Another issues which I have encountered is the component and architecture of the components in the ReactJS. I am used to the OO architecture in Java but I am not quite sure about how to pass the reference from 1 component to another in React. And I did spend some time to study and to reference to other coding.

**How to improve**

I think it’s no good to encapsulate most of the workflow in the App.js and instead, it should be separated into different .js files so that it would be better managed. On the other hand, if time allows, I would like to implement and to save the game result into database.

**Startup Instructions**

1. Download from git:

* download the zip files from git (https://github.com/zoelamlcm/react-diceZ.git)
* in the root directory, run the command : npm install
* then, to start the project: npm start

1. alternatively simply run it in github https://zoelamlcm.github.io/react-diceZ/

As the UX Designer, I should spend time on exploring all user experience involved in playing a dice game.

As the UI Designer, I should use “React UI component libraries and frameworks” in order to create an awesome looking UI. I would like to use the templates and layouts to customize the components to my own design specifications. Moreover, I am very interested to learn how to generate animations in React Apps.