Step by Step Guide for Building the MyReads App

Planning Stage 📐

Step 1 - Draw All of the Views of the App

We need to determine the look and functionality of each view in your app. One of the best approaches is to draw each view of the app on paper so that you'll have a good idea of what information and data you're planning to have on each page.

Instead of paper and pencil, you can be a bit more digital and use **software for creating mockups**. If you were given project specifications, check your mock against them to make sure that you have all of the required features. For the exercises that follow, your can just draw what you're trying to create on paper.

I have created a mockup of all the views in the app.

Step 2 - Break Each View Into a Hierarchy of Components

For this step,

- draw boxes around every component; and
- arrange our components into a hierarchy

I broke down each view into a hierarchy of components.

Step 3 - Determine the Data Each Component Needs

For each component, determine which data is the component accessing, getting, modifying, or showing.

I have made a list of all of the data each component needs.

Step 4 - Determine Which Component Each Piece of Data Should Live in

If multiple components need the same data, lift the state up by storing the data in the components' closest common ancestor. Take a look at these example to see how that's done: **Lifting State Up** and **Thinking in React**.

1. I have determined where each piece of data should live.

Coding Stage🔨

Step 1 - Create components that hold data.

Build all of the components that hold data and make sure everything works correctly, including API calls (e.g. the components request data the correct way and the data comes in as expected.)

I have finishing coding up components that hold data.

Step 2 - Create components that need data.

I have created all of the presentational components.

Step 3 - Pass data from components that have it to components that need it.

I have finished passing data through to the components that need it.

Step 4 - Debug and make sure that everything works as expected.

I have tested and debugged my code - everything works as expected.

Step 5 - Add inverse data flow (if you're confused about what that means, take a look at **this**.

I have implemented inverse data-flow.

Step 6 - Add navigation.

Step 7 - Add finishing touches and make sure the project meets the **rubric**.

Remember, this is just a template. As you build more projects, you'll modify this template to suit your needs. You may also find it more intuitive to use a different approach. Regardless of

the approach you take, however, **planning out your app is imperative to success**.