

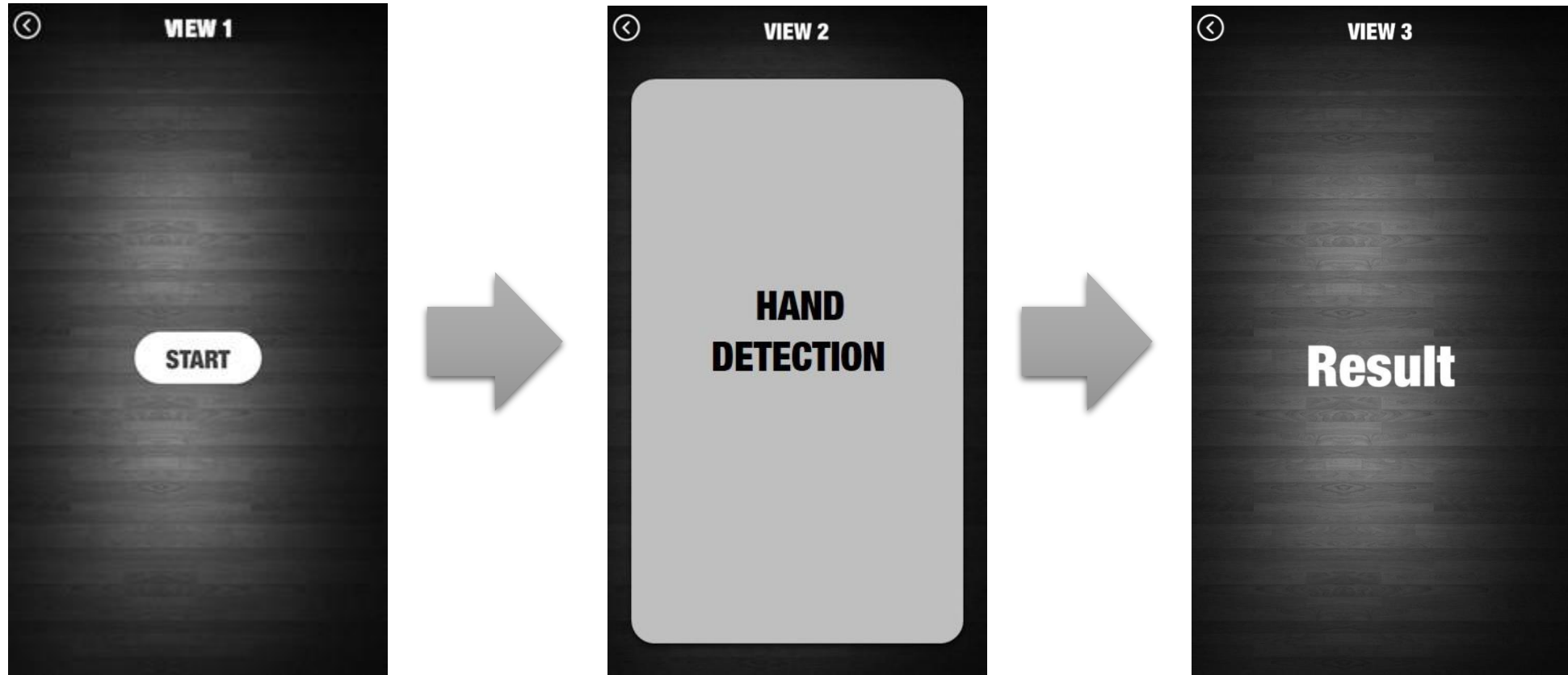
# Requirements Specification

## Hand Detection

May 2017

# Project Scope

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Develop the **Hand Detection Component** for an existing mobile web app

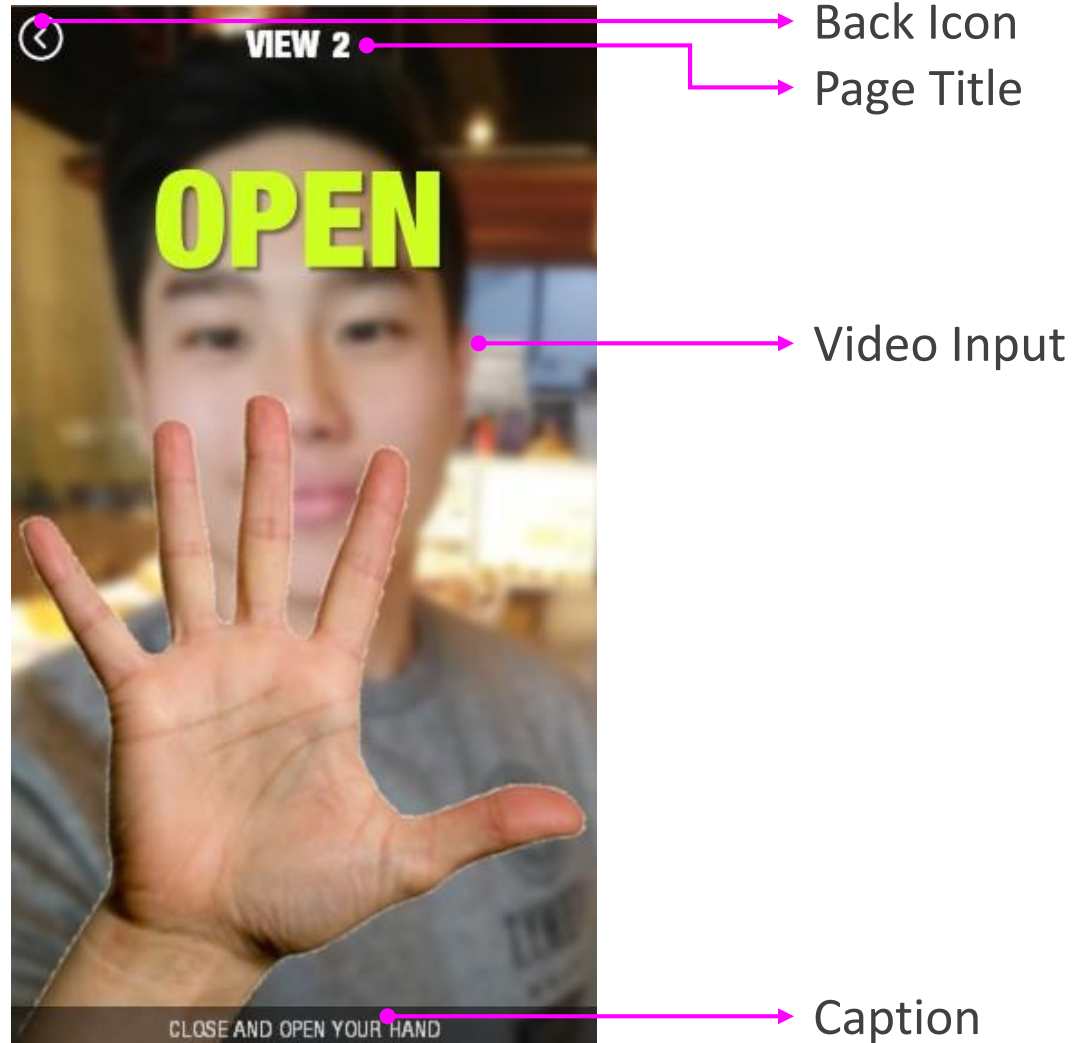
# Work Summary

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- A. Create a ReactJS class that will encapsulate the Hand Detection Component
  - Get video input using front camera
  - Detect hand in video input
  - Recognize if hand is open or closed
  
- B. Update code of View 2 Screen to integrate Hand Detection Component
  - Start Hand Detection component
  - Overlay label on video stream
  - Display DONE button if Open and Closed are both tagged as Completed

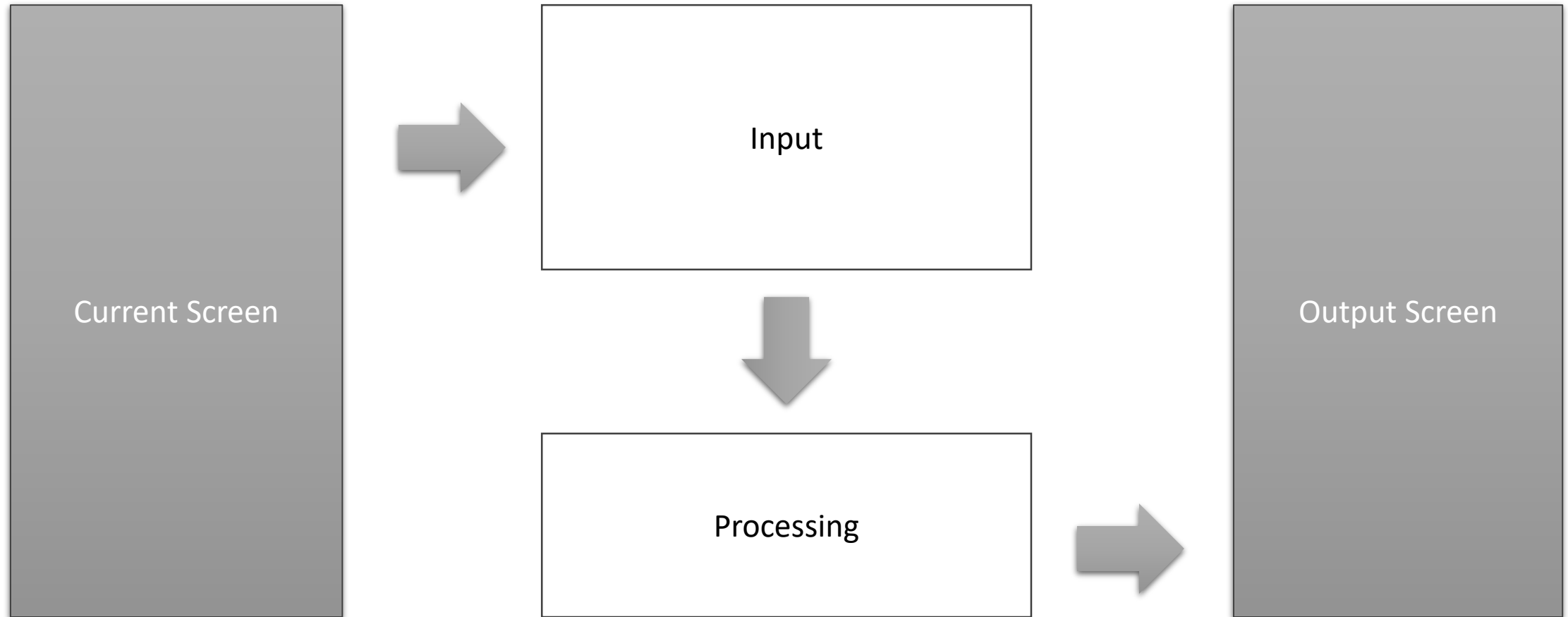
# Use existing UI Components

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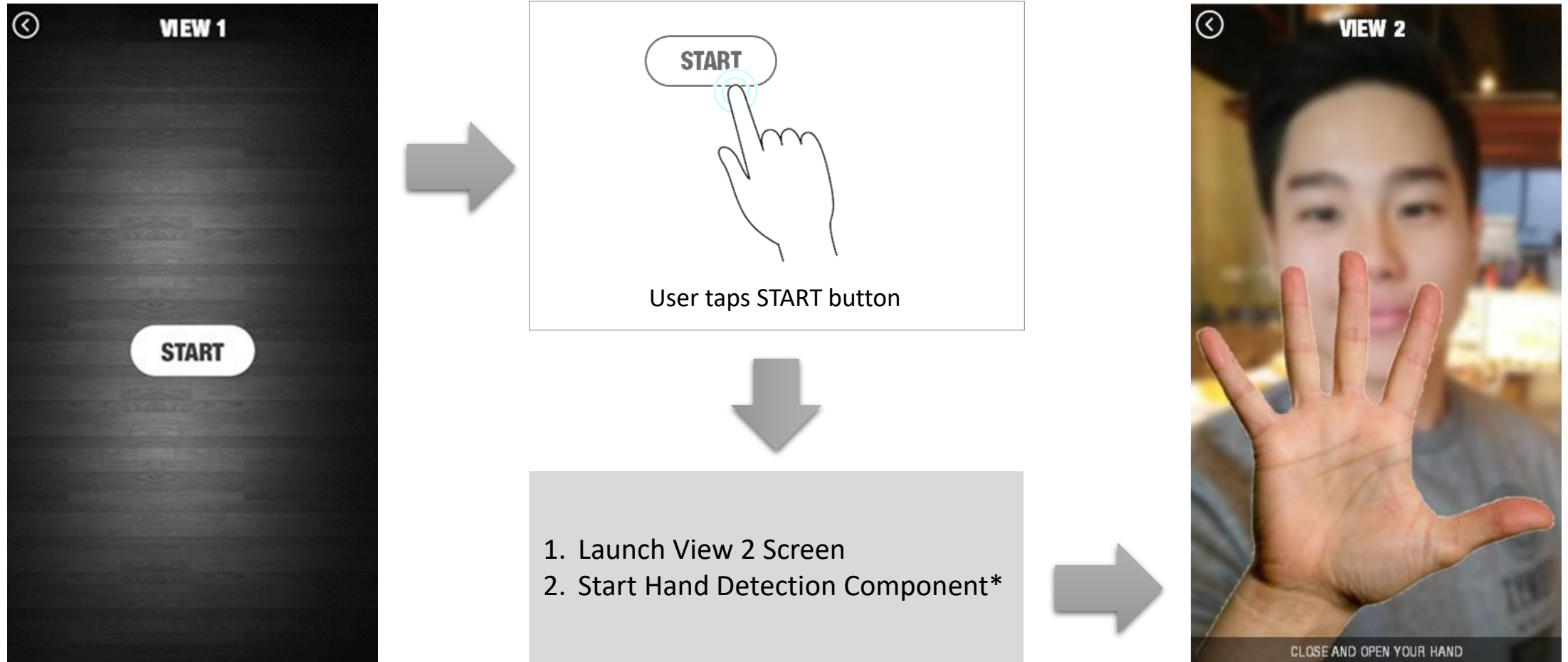
# Screen and Process Specification Template

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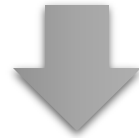
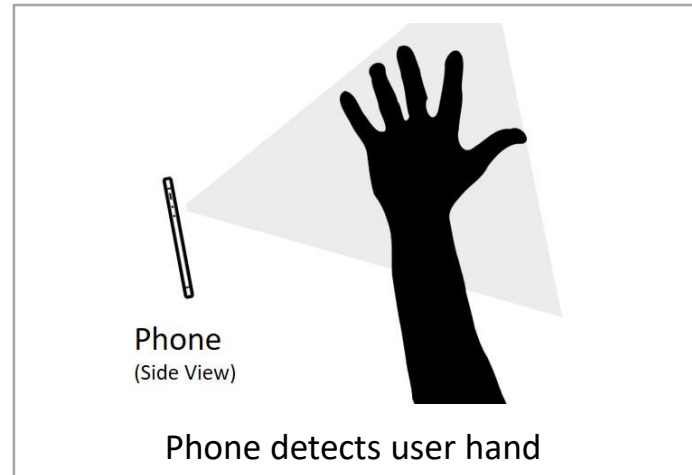
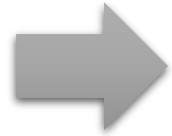
NOTES

# Step 1



\*Hand Detection Component launches the front camera to detect the hand in real-time

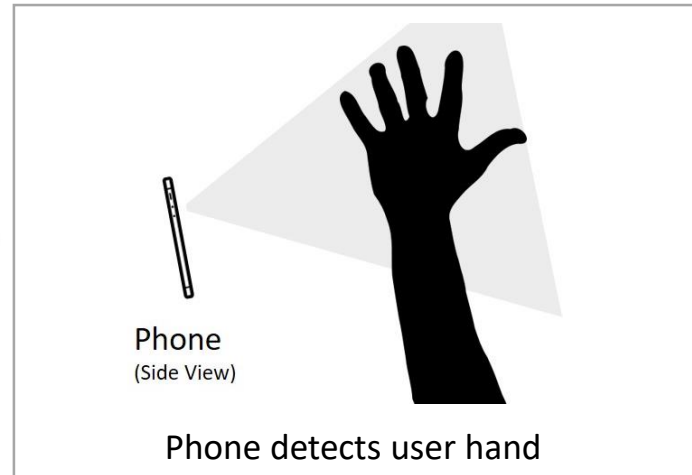
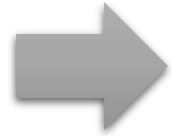
# Step 2A



- If detected hand is open:
1. Overlay "OPEN" on video stream
  2. Tag Open as Completed



# Step 2B

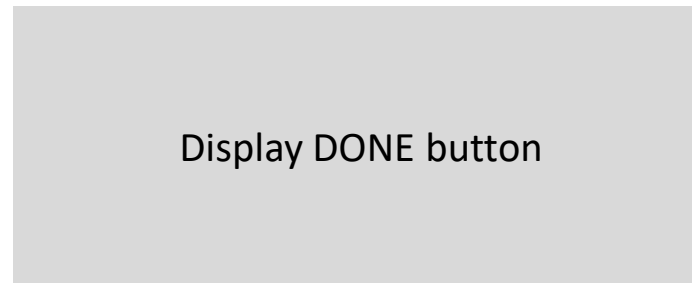
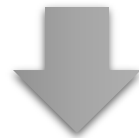
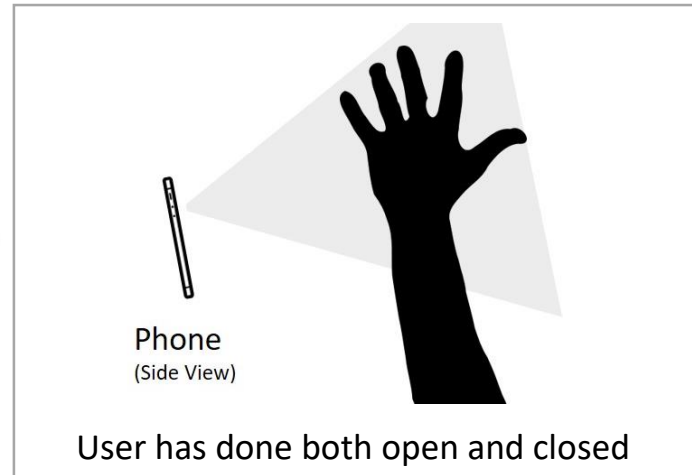
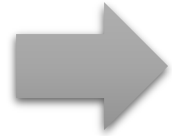


- If detected hand is closed:
1. Overlay "CLOSED" on video stream
  2. Tag Closed as Completed

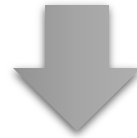
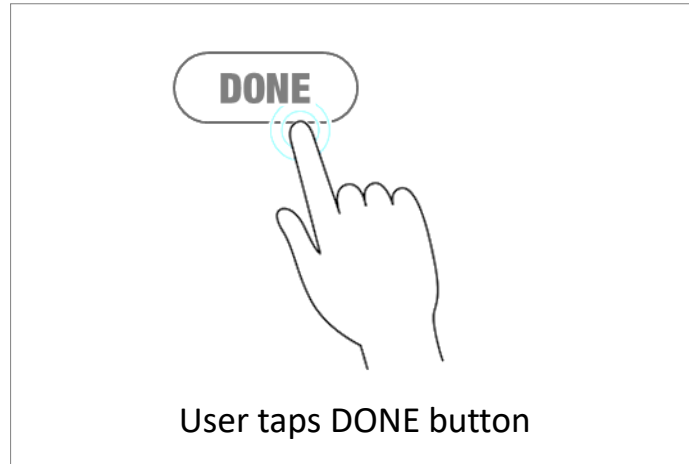
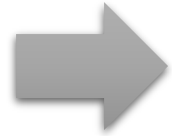




# Step 3



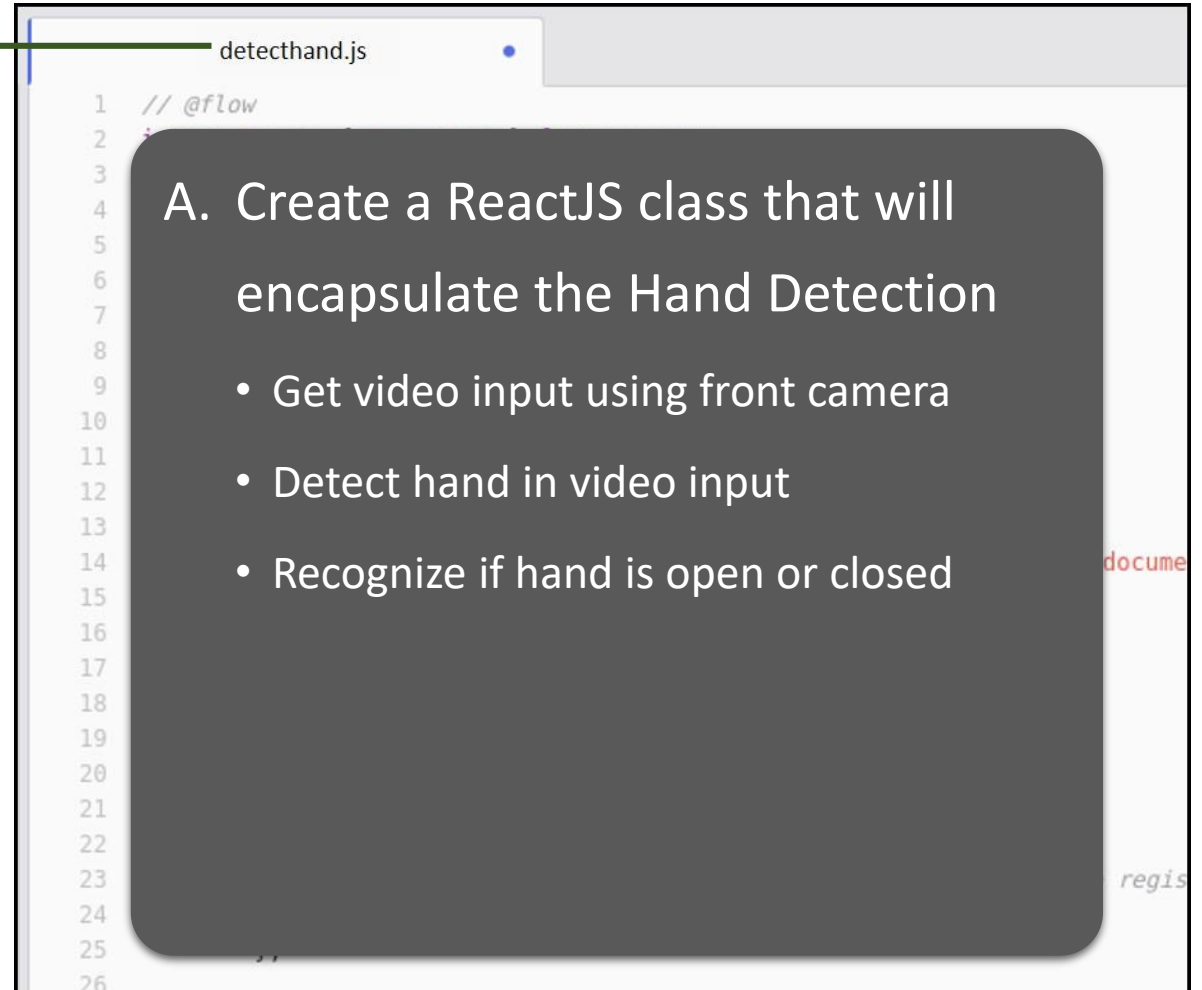
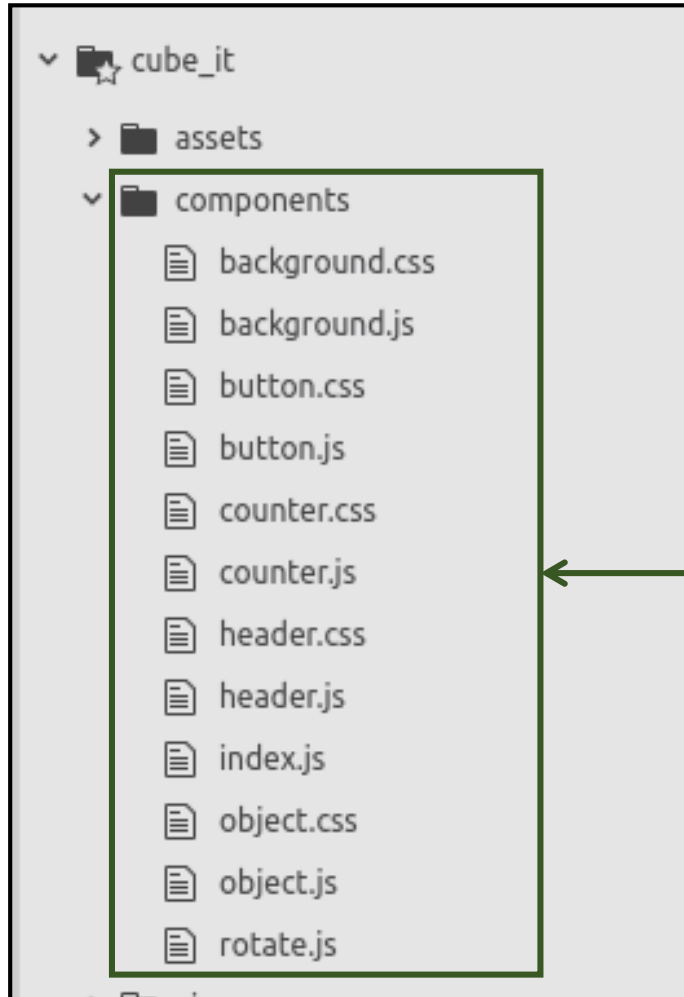
# Step 4



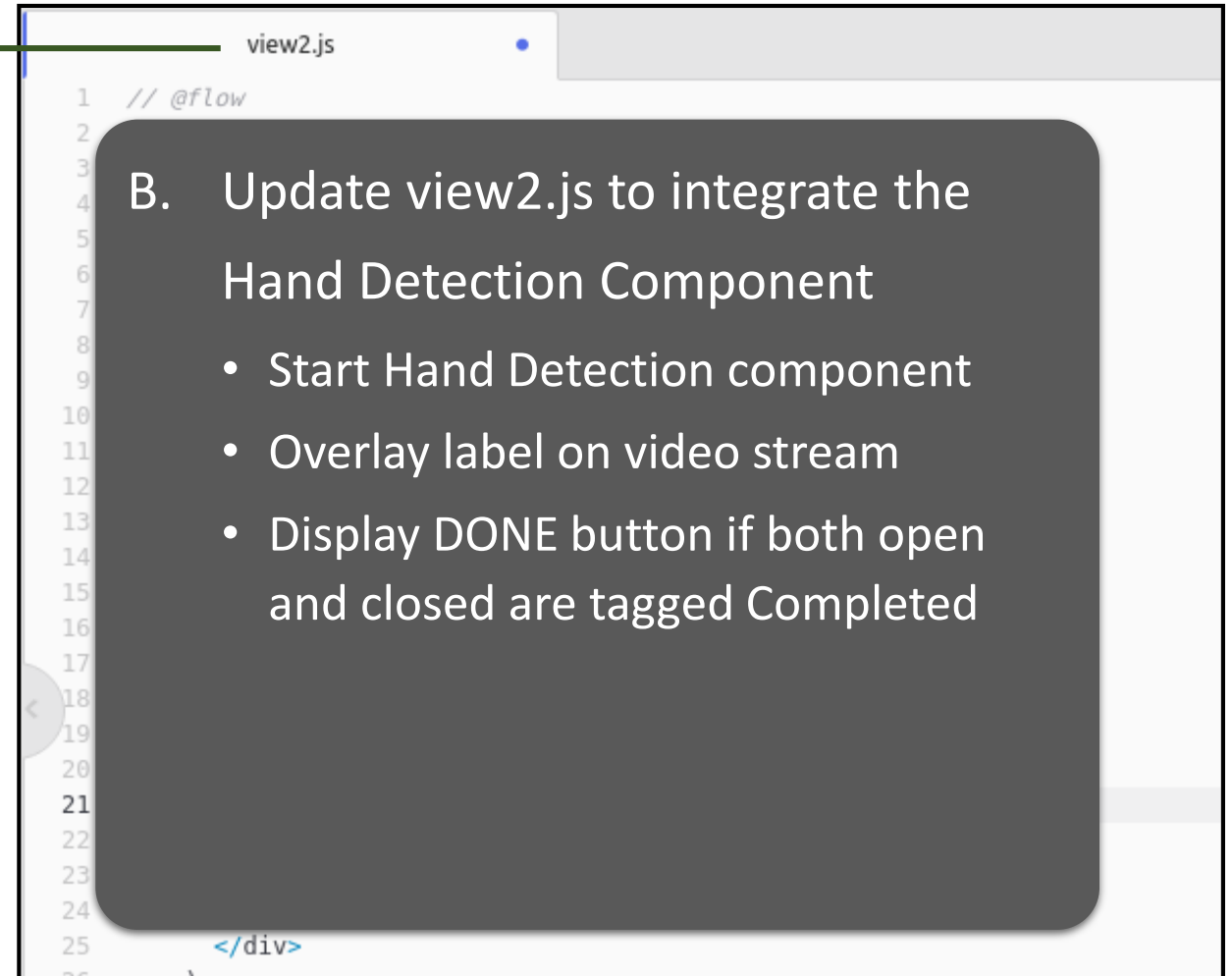
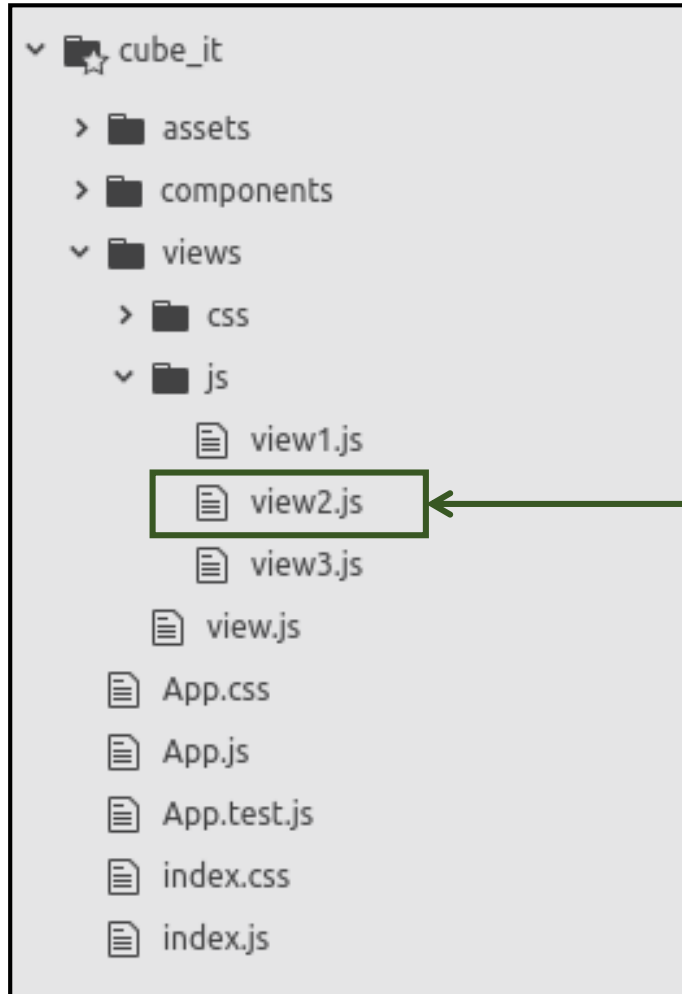
1. Pass data to View 3 Screen
2. Launch View 3



# Source Code Structure

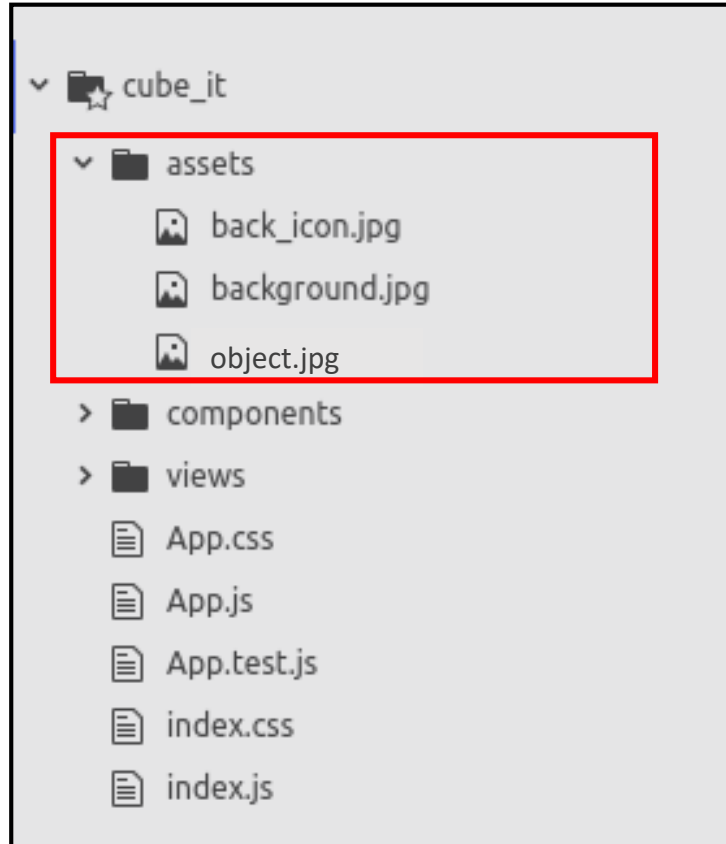


# Source Code Structure



# Source Code Structure

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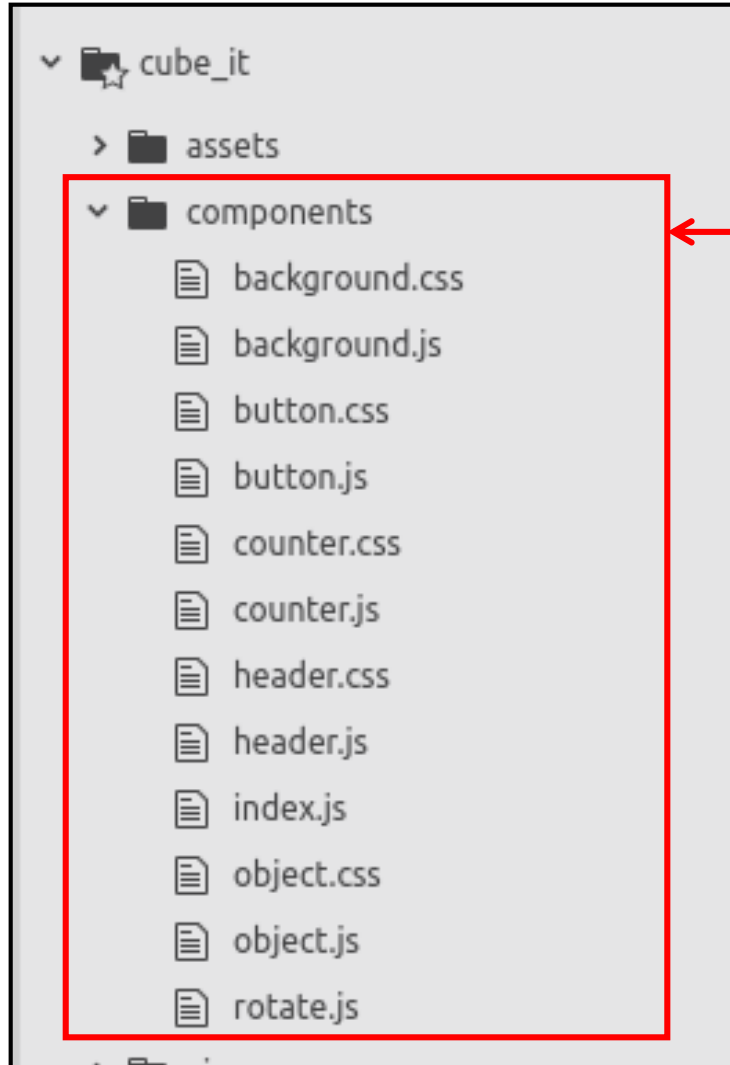


## assets/

- Folder where images and icon files are located
- **NO ADDITIONAL IMAGES REQUIRED**

# Source Code Structure

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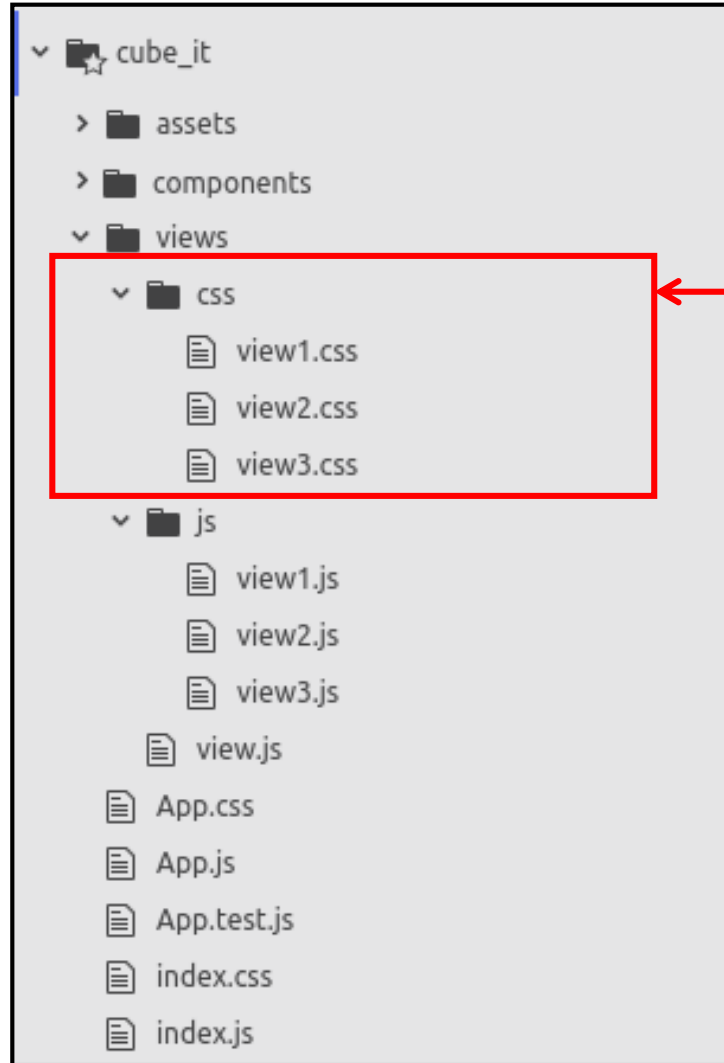


## components/

- Folder which contains the .css and .js files of components used by all views
- The button.css and button.js files are used for both START and DONE buttons
- The header.css and header.js files contain the Page Title and Back icon
- **NO CODE MODIFICATION REQUIRED** except for Hand Detection Component (detecthand.js)

# Source Code Structure

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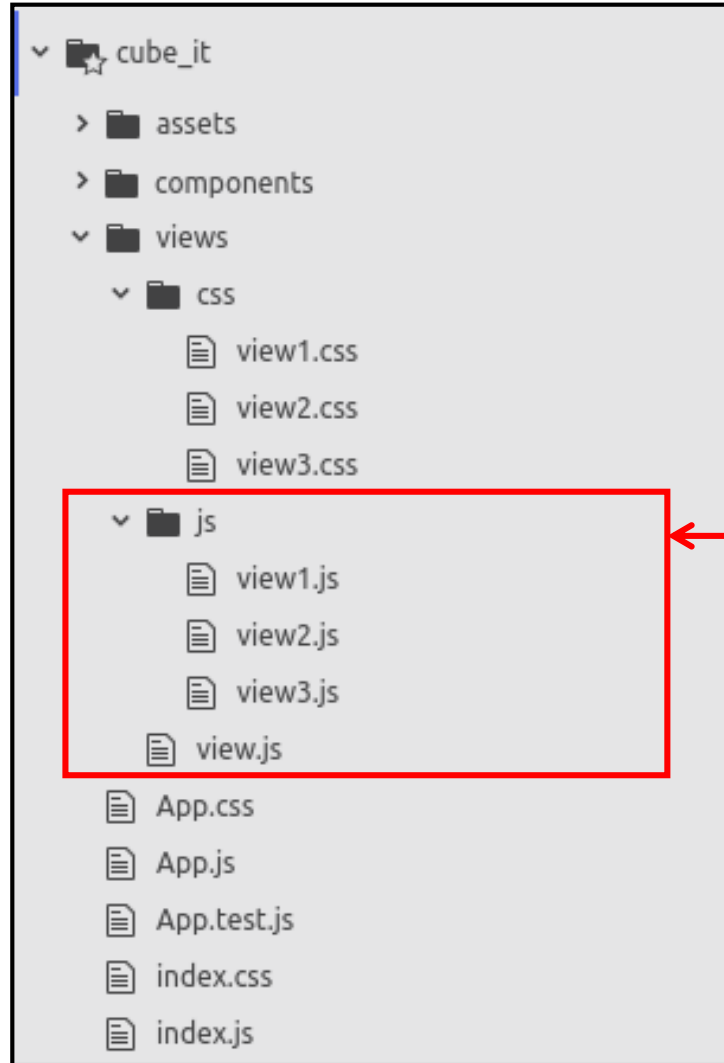


views/css/

- Folder for .css files of the View Screens
- **NO CODE MODIFICATION REQUIRED**

# Source Code Structure

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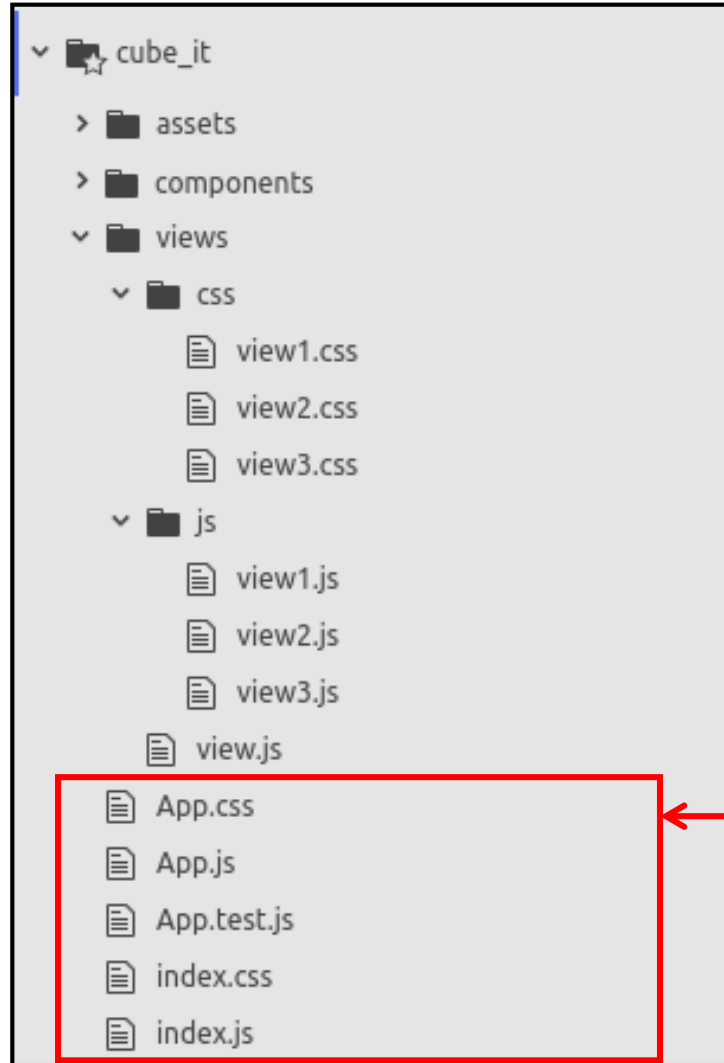
## views/js/

- Folder for .js files of the View Screens
- **NO CODE MODIFICATION REQUIRED** except for view2.js



# Source Code Structure

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## Standard React Project Files

- Includes the .css and .js of node files
- **NO CODE MODIFICATION REQUIRED**

END