Software Architecture Document

Advisely, An Education Support Application

Big Muscle Boys
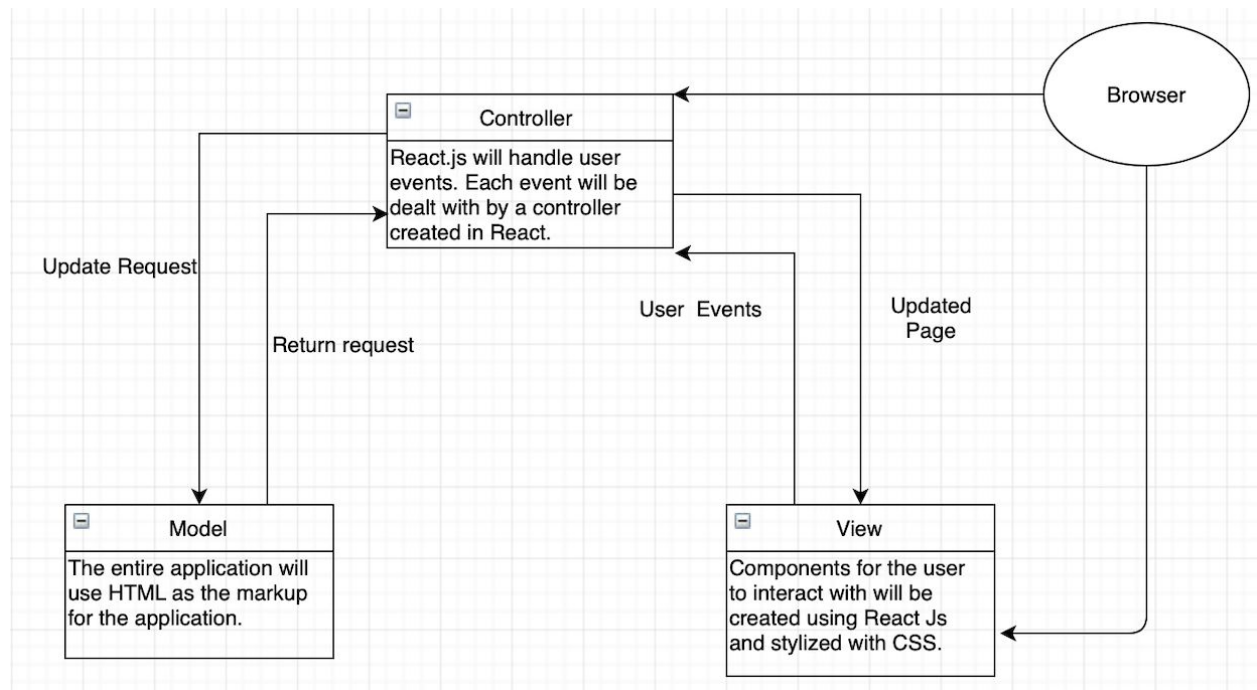
Sam Elliott, Jens Hansen, Connor Langlois, Eli Legere, Eric Schessler, Spencer Ward
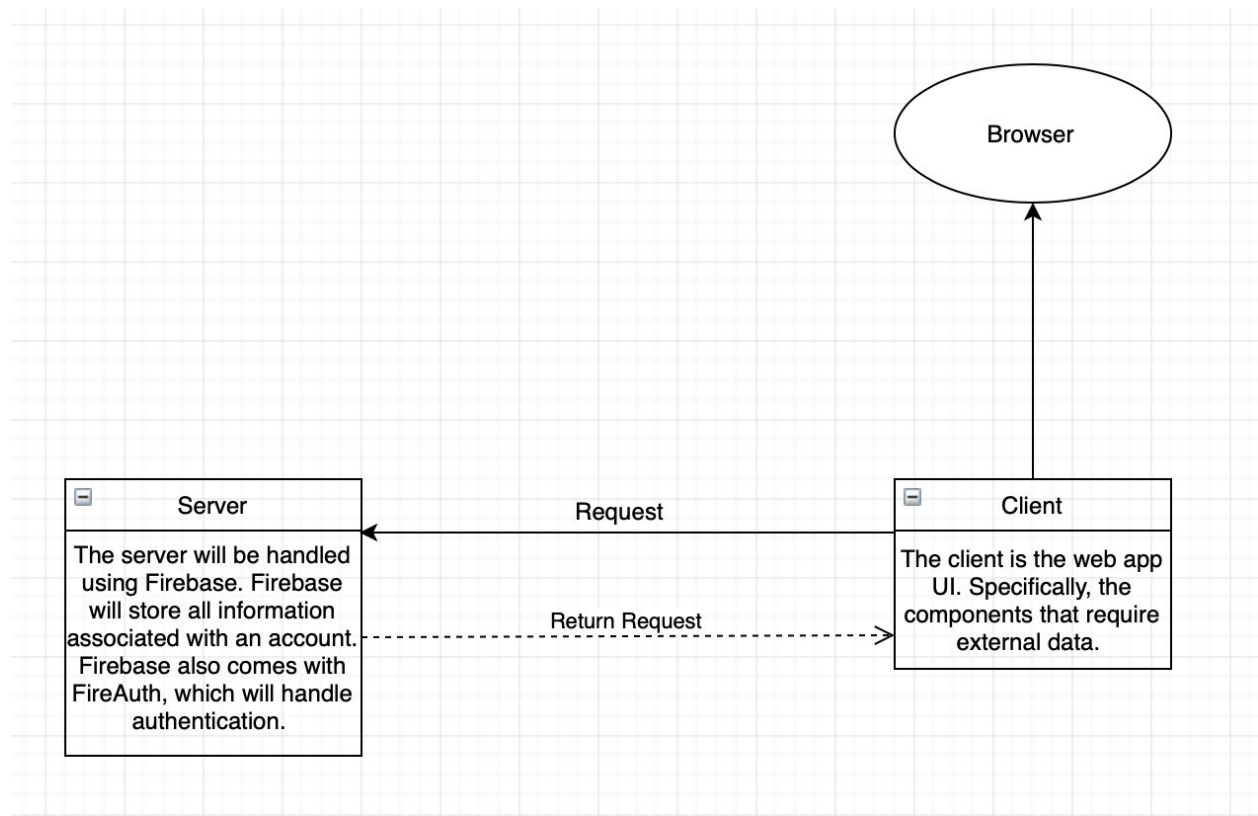
COS 420 UMaine Spring 2019

Professor: Sepideh Ghanavati

User-App interface using Model-View-Controller

Due to the very nature of React Js both the controller and the view will be created using React. Visible Components will be styled using CSS. Whereas the Model will be an HTML page. The pattern we've chosen to adopt differs slightly from the traditional Model-View-Controller in that the model does not interact with the view. This is because all the visible components are handled with react. When a user event calls for an updated page, the controller will generate the proper html code. The HTML model will then update.

Client-Server Architecture Pattern

Browser

Server
The server will be handled using Firebase. Firebase will store all information associated with an account. Firebase also comes with FireAuth, which will handle authentication.

Request

Return Request

Client
The client is the web app UI. Specifically, the components that require external data.

This UML diagram demonstrates how information will be retrieved from the database. All clients requests will be generated from a user event. Once the client requests information of some kind i.e. courses, schedules. That request is sent as a query to the database. The database then returns that request to the client. The client will then act accordingly. s