- 1. I have created a React application using create-react-app.
  - a. For an actual production application I would rather use NextJS. It's become popular now and opinionated frameworks like NextJS are generally great for most applications.
- The application generally shows my thought process. I created an Image component, a
  thumbnail component and a Carousel component that hosts each of the above
  components. This is essentially using the power of React by creating views using nested
  components.
- 3. I could not get to creating the API so I mimicked the API call and simply returned mock data.
  - a. Depending on the needs and the client, I would utilize any appropriate technology to develop the API's.
  - b. I would certainly look at hosting API's on Lambda's but like I explained previously I have battle scars utilizing Serverless for HTTP endpoints. I would need to do some more analysis before I would utilize Lambdas for API's. I would certainly used them for asynchronous/backend jobs. I have used them as consumers of Kafka messages(or other message brokers) to process asyc push notifications to mobile platforms and sending out emails etc.
  - c. Irrespective of the technology or language used the generals architecture would be same
    - i. Easily testable and loosely coupled api's.
    - ii. Utilize GraphQL