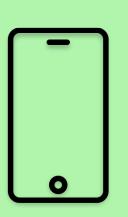
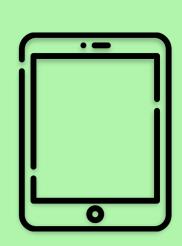
User Interface







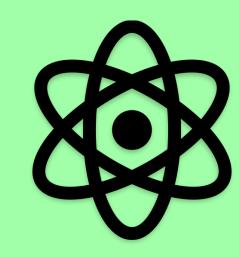
Client-side / Front End

React JS

- Utilizes Javascript ant HTML/CSS combined (JSX)
- Routes created in React send HTTP requests to the server-side routes in JSON
- Developer created components in JSX are styled responsively onto the screen.
- Users interact with the UI via created components and make requests via routes
 - The HTTP response from the back-end is rendered onto the user interface and reacts to inputs/changes from the components dynamically
 - Bootstrap/Bulma framework assists with user-interfaced components
 - Deployed on Netlify , which operates on a global CDN, connected to a Git Repository

HTML

Response



Server-Side / Back-End

Express

- Middleware programming receiving and responding to React HTTP routes
- Routes contain CRUD operations to receive and request data to and from the API endpoints
- Uses own routes with controller functions to communicate with the defined API endpoints via a port connection

JSON Request

Query

JSON Response

 Data formatted through an ODM (Mongoose) which maintains Javascript language through usercreated models/schemas

Mongoose

- Connects with the Database and relays requests and responses of data via connection with Express
- Defines Models and Schemas and provides validation for Database data

Node JS

- Javascript runtime environment (runs outside web browser)
- Deployed on Render, connected to backend Git repository (inc all Backend)

Database

MongoDB

- Data stored in two collections (Job, User) in the one database.
- CRUD queries via Mongoose are received and responded to.
- MongoDB is hosted on Atlas Cloud server

Data Requests-CRUD

HTTP Response

