Milestone 5 Frontend

Michael John Canson, Chiu Wong, Paul Borst

Overview

- Frontend Stack
- Code Structure
- Implementations

Frontend Stack

- Node.js
 - Asynchronous, event-driven JS runtime dev platform
- React.js (UI/UX)
 - Open-source frontend JS library
 - Material-ui (React UI framework)
- Axios
 - Handles fetch requests or to save data
- Redux
 - State container
- Jest (Unit testing) & Enzyme (testing utility)

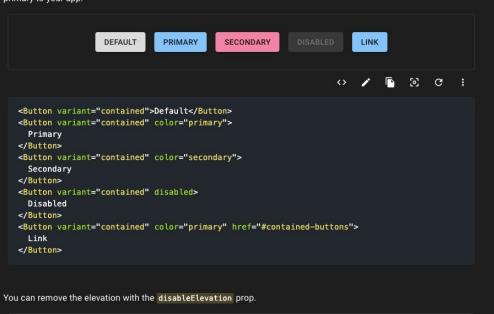
File Structure

- Files are grouped by file type
 - Components
 - Header, appbar, lists components, etc...
 - Pages
 - Containers that hold multiple components
 - Dashboard, exercise library, PT Profile
 - Redux
 - State managing files
 - Assets
 - Logos, photos, etc...

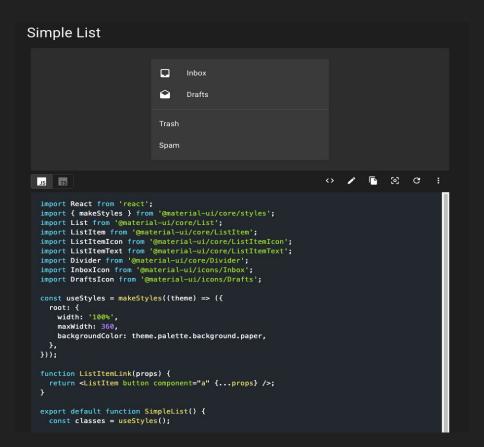
Material-UI

Contained Buttons

Contained buttons are high-emphasis, distinguished by their use of elevation and fill. They contain actions that are primary to your app.



Material-UI



Redux Implementation



- Axios calls inside actions
 - Less axios calls inside functional components
- Allows data to be sent and passed around to different components globally
 - o Patient list, workout plans, PT info, etc...
- Redux Files:
 - Provider component wraps App container allowing access to the store component, which holds all fetched data
 - Reducers in charge of what data is being saved and updated inside the store
 - Components trigger actions which is then taken in by reducers

Redux Provider

Redux Action

```
export const loginPT = (pt) => {
  const params = new URLSearchParams();
 params.append('email', pt.email);
 params.append('password', pt.password);
 console.log('params: ', params);
  return (dispatch) => {
   postAuth('/api/pt/login', params)
      .then((res) => {
        console.log('login status: ', res.data);
       if (res.data == 200) {
          dispatch(getPTByEmail(pt.email));
       } else {
          console.log(res.data.payload.message);
         // dispatch(loginPTError(res.data))
     1)
     .catch((err) => {
       dispatch(loginPTError('username or password is invalid.'));
       console.log(err);
     });
 };
```

Redux Reducer

```
const PTReducer = handleActions(
    [constants.GET_PT_PATIENTS]: (state, action) => ({
        ...state,
        patients: action.payload,
      }),
    [constants.CREATE_PT]: (state, action) => {
      const pt = action.payload;
      return {
        email: pt.email,
        f_name: pt.f_name,
        l_name: pt.l_name,
        company: pt.company,
        patients: [],
    },
```

Redux Implementation

```
const PatientList = (props) => {
 const classes = useStyles();
 const [open, setOpen] = useState(false);
 useEffect(() => {
   // will load patients when the page loads
   props.updatePT(props.pt);
 }, []);
 const handlePatientClick = (e, patientId) => {
   props.fetchPatientExerciseVideos(patientId);
   props.patients.map((p) => {
     if (p.patient_id === patientId) {
       props.setSelectedPatient(p);
   });
   setOpen(true);
 };
```

```
export default connect(
  (state) => ({
   // The state of the pt, as defined by reducer-pt
   pt: state.pt,
   // The state of the pt's patients, defined by reducer-pt
   patients: state pt patients,
   selectedPatient: state.pt.selectedPatient,
  }),
  (dispatch) => ({
   // The action from actions-pt which will effect reducer-pt
   fetchPTsPatients: (pt_id) => dispatch(fetchPTsPatients(pt_id)),
   createNewPT: (pt) => dispatch(createNewPT(pt)),
   setSelectedPatient: (patient) => dispatch(setSelectedPatient(patient)),
   updatePT: (pt) => dispatch(updatePT(pt)),
   fetchPatientExerciseVideos: (selectedPatient) =>
     dispatch(fetchPatientExerciseVideos(selectedPatient)),
  }),
)(PatientList):
```

