**Frontend Assessment Task**

**Steps for the execution of the task:**

* First of all I create React project through create-react-app command
* After that I clean up the useless code from the default project setting.
* After that I install redux in my project to proceed further
* For the structure of my project, first I made a parent folder naming Store in which I create

2 more folders naming action and reducer, in which there is action.js and reducer.js respectively.

* After that I configure the redux store in index.js with the help of the createStore,provider,appMiddleware and thunk.
* After that I first describe actions type in ActionTypes.js after which provide actions required for the task to complete.

1. FetchAnimalSucess
2. FetchAnimalError
3. For fetching data we use method which is possible to implement because of thunk we add in store is FetchAnimal() in which we dispatch two actions describe above separately for the response case in which we call FetchAnimalSucess(res) which contains our response and other dispatch for error Handling

* In reducer.js we describe our initial state and perform tasks including the action required for that type according to the actions.
* In App.js file first I describe my state in mapStateToProps method from reducer and describe the method to be perform in mapDispatchToProps
* The method is called in componetDidMount Lifecycle method which deals with data coming from Api. This life cycle is run after the execution of first render
* After that in render() I fetch a list from the state and store in a animal variable by using map method
* Along with filter method for the search filtering of the animals’ list.
* After that I perform some styling and use the animal variable which contain all of the list in return like this {animal}

**Libraries Used in this task:**

* Redux
* Redux-react
* React-thunk
* React-helmet
* Mdbreact

**Problems facing during the task:**

* Yeah I faced problem in adding Mdreact library to the project which allow me to automatically add dynamic table and search bar, but it didn’t go well , so I manually add search bar and perform different css into it to look good