**DAILY WORK REPORT**

**Date: 03/02/2024**

Name: **ALBERT FREDY**  Reporting to: **BIJIN MANUEL**

Employee Code: ITS120

**PROJECT NAME**: Learned REST API MVC , Firebase platform

**TODAY’S UPDATE**

* Created a REST API using node.Js , Express.Js and mongodb for creating shorten url application
  + Created an API endpoint for post request for giving the url
  + Used shortID library for generating the short ids for the url
  + Created an API endpoint for getting the url and redirect to the original url given by user based on the id
  + Created an API endpoint for getting the analytics of the url
    - include : total clicks and time stamp of url which is clicked
    - total clicks are fetched by finding the length of the array in the document which is visited history
* Created url shortener web app using rest api (node.js,express, mongodb) with the frontend which is working as server side rendering ( EJS )
  + integrated server side rendering to app
  + api endpoints are reused from the previous project.
* Created a simple react app with backend as firebase
  + Configured firebase for the project
  + Establishment of firebase connection to react app
    - Integrated firestore connection
  + Performed CRUD operations on the web app
    - Integrated addDoc builtin function of firestore for create operation
      * created a new user by performing an api call
    - Integrated getDoc builtin function of firestore for fetching data from firestore
      * used useEffect for rendering the browser and fetch the users data from firebase and dependency has set with a state, where the rendering is done whenever the state changes
    - Integrated deleteDoc builtin function of firestore for deleting data from firestore
      * done by fetching the document based on id.
    - Integrated updateDoc builtin function of firestore for updating data from firestore
      * done based on the id of the user
      * integrated modal approach for the editing and used separate state for store the edited user
    - Used .env for data abstraction while pushing into github repo

**REMAINING MODULES**

* Authentication using firebase
* Real time messaging
* Push notifications

**COMPLETED MODULES**

* CRUD system of the firebase

**REMARKS**

**VERIFICATION REPORT BY TEAM MANAGER**

Verified By

**BIJIN MANUEL**