SIT313
Login & Registration Page

Azadeh Ghari Neiat

SIT313 - Full-Stack Development: Secure Frontend Applications
Login & Registration Page

Overview

This task intends to provide you with experience in Firebase and React routes. You are given the requirements of a login & registration page for DEV@Deakin web application. Your task is to build this component.

You will find "Mini-lecture and Demo Videos" of Week 6-7 on the unit site to be particularly useful as a reference for this task. Please also keep an eye on your email and any announcements that may be made on Cloud Deakin.

Submission Instructions

To submit this task on OnTrack, please follow the guidelines below:

- Ensure that all project files related to this task are stored in a GitHub repository named "Task 7.1P".
- Submit a link to a demo video showcasing the loading and running of your task page.
- Consolidate all required links, including a screenshot of your webpage, into a single PDF file.
- Submit the PDF file through the task submission page on OnTrack.
- Grant access to your marking tutor to the GitHub repository, so that we can review your work.
- Ensure that your demo video and the GitHub repository are not public. If you choose to upload the video to platforms like YouTube or Deakin Air, make sure it is set to private and only accessible to your teaching team.

Task Requirements

The Login page allows a user to login to their existing account or redirect to the sign-up page to create a new account as shown below. The application maintains a Firestore database to record all information of users, posts etc.

- A user needs to provide their email and password to get into the application. The inputted email and password are checked against the database. If the requester's login information exists in the database, it redirects the home page; otherwise, login failure message will be displayed for invalid email or password.
- You need to design a sign-up page for new user registration which allows a user to register themselves into the application. For each user, you need to keep name, last name, email address, and password. When a new user registers successfully, they will be automatically re-directed to the login page.
- **(Optional)** All passwords can be hashed before storing in the database. You could use bcrypt npm library to hash passwords. According to Wikipedia, "*bcrypt is a password-hashing function designed by Niels Provos and David Mazières, based on the Blowfish cipher*".

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