Software Design – Lab 4

ClayCarp/Software-Design-Lab4

Purpose Statement	The lab was aimed to create a login system. The login system will be implemented using MongoDB, Express, React, and Node.js. The primary objective is to gain practical experience using backend logic and transforming it to the frontend.
Experiment Design	To accomplish creating a web application that uses a log in system I would need a database to keep track of a user's credentials. The user will sign up and use that information to then login to the web page. The application had a very simple design just to feature a login system. Even though it is a simple design it can be used for the bigger picture.
Resources Available	1. MongoDB Documentation 2. YouTube Tutorials 3. MongoDB Compass
Time Estimate	3 Hours
Experiment Notes	A simple web app that can keep track of user's credentials and be used for a login system. I had a lot of trouble connecting the frontend to the MongoDB database/cluster. I had to create an API endpoint so the user info is not just accessible on the /localhost alone.
Results	The experiment provided a simple demonstration on how to implement a user login system using a MERN stack. A lot of my time was setting up endpoints and connecting the database. I did not spend to much time on the design just enough for the website to look decent. After running low on dead line time I was able to get everything to work.
Future Considerations	1. Set aside more allocated time

	2. Implement the login system in a full blown website 3. Add a logout feature if they want to login into a different account. 4. Add more rules to login (verifying an accessible email account) 5. Set aside password restrictions

Instructions for setup:

1. Clone ClayCarp/Software-Design-Lab4
2. Locate root folder
    a. cd Software-Design-Lab4
3. Install dependencies
    a. npm start