

SUMMER INTERNSHIP



LOVELY
PROFESSIONAL
UNIVERSITY

Submitted by

Name: Karan Mehra

Registration no: 11815793

Course code: CAP300

Title: Full Stack MERN Bootcamp

**School of Computer Application Lovely
Professional University, Phagwara**

(01/MAY/2020 to 30/JUL/2020)

INDEX

Description
About MERN stack
Certificate
Mini project (Login app)
Technical learning from the course
Bibliography or References

About MERN stack

MERN Stack: MERN Stack is a Javascript Stack that is used for easier and faster deployment of full-stack web applications. MERN Stack comprises of 4 technologies namely: MongoDB, Express, React and Node.js. It is designed to make the development process smoother and easier.

Each of these 4 powerful technologies provides an end-to-end framework for the developers to work in and each of these technologies play a big part in the development of web applications.

FRONTEND VERSUS BACKEND

Frontend	Backend
Frontend refers to the client-side of the application.	Backend refers to the server-side of the application.
It is the part of the website users can see and interact with.	It constitutes everything that happens behind the scenes.
It typically includes everything that attributes to the visual aspects of websites.	It generally includes a web server that communicates with a database to serve requests that the frontend presents.
It forms the basis of what users can touch and experience on their web browsers.	It is the brain of the website that is never visible to the end users.
The essentials of frontend web development include HTML, CSS, and JavaScript.	The essentials of backend development include Ruby, Python, Java, .Net, etc.

Certificate

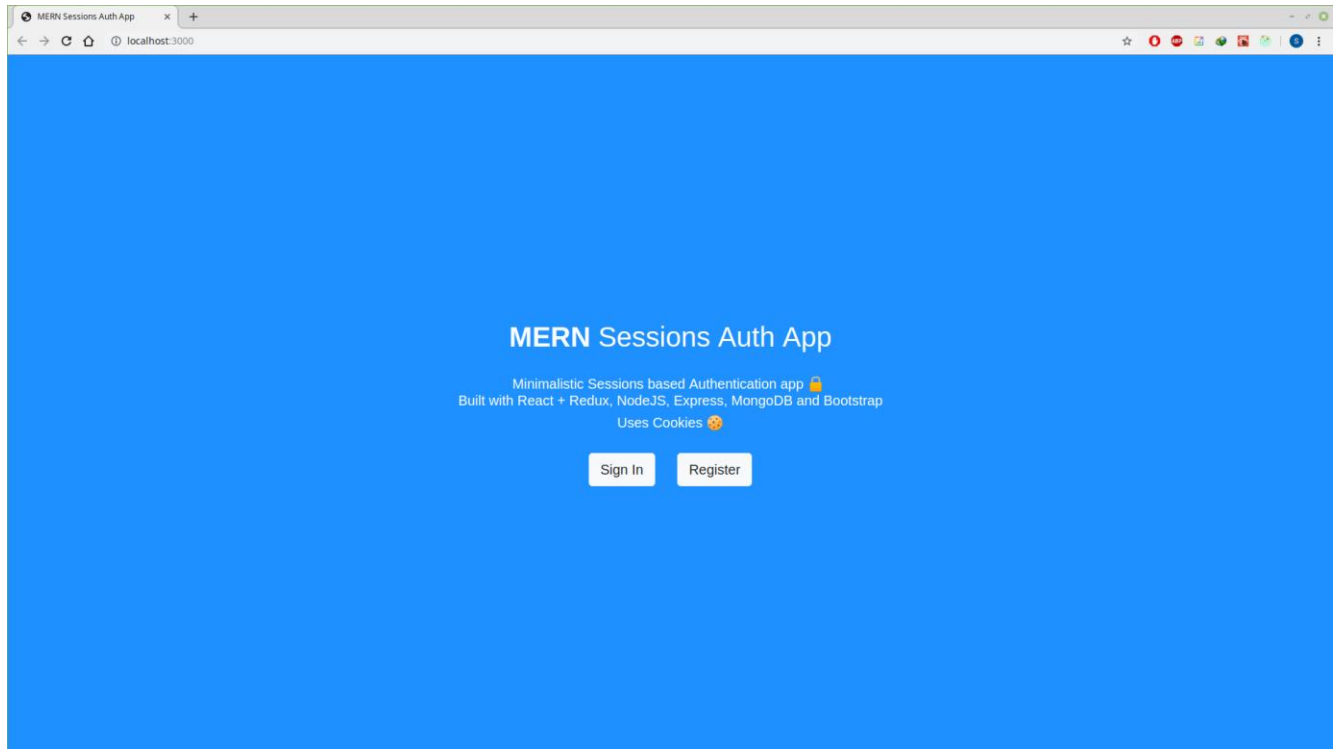


[\[link\]](#)

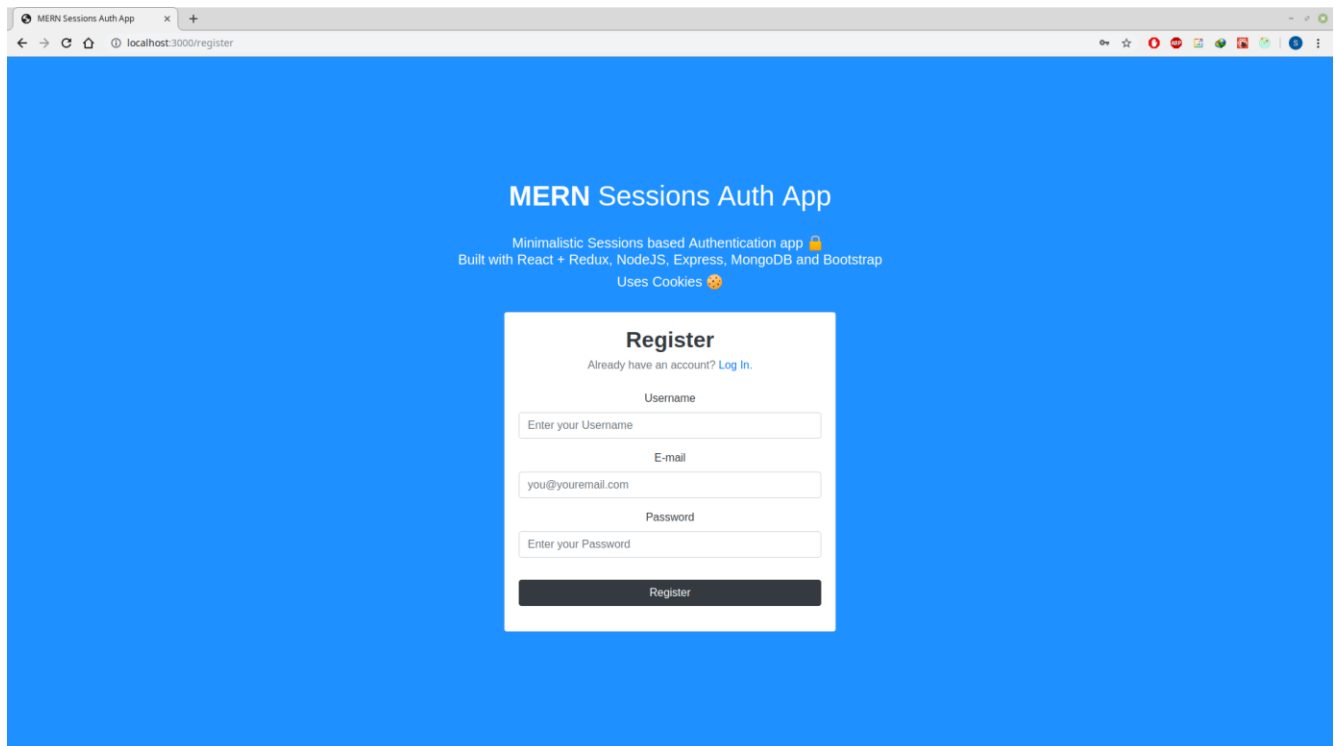
About project (Login app)

Screenshots

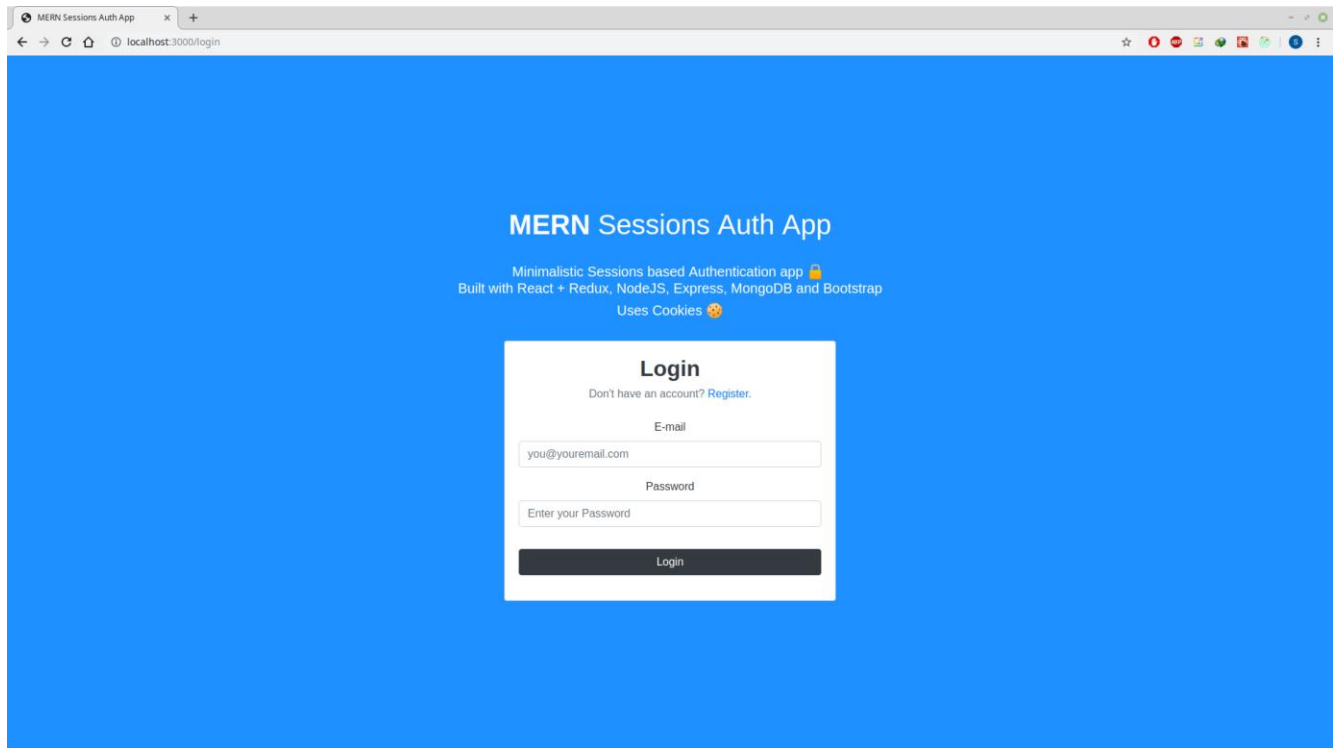
Home



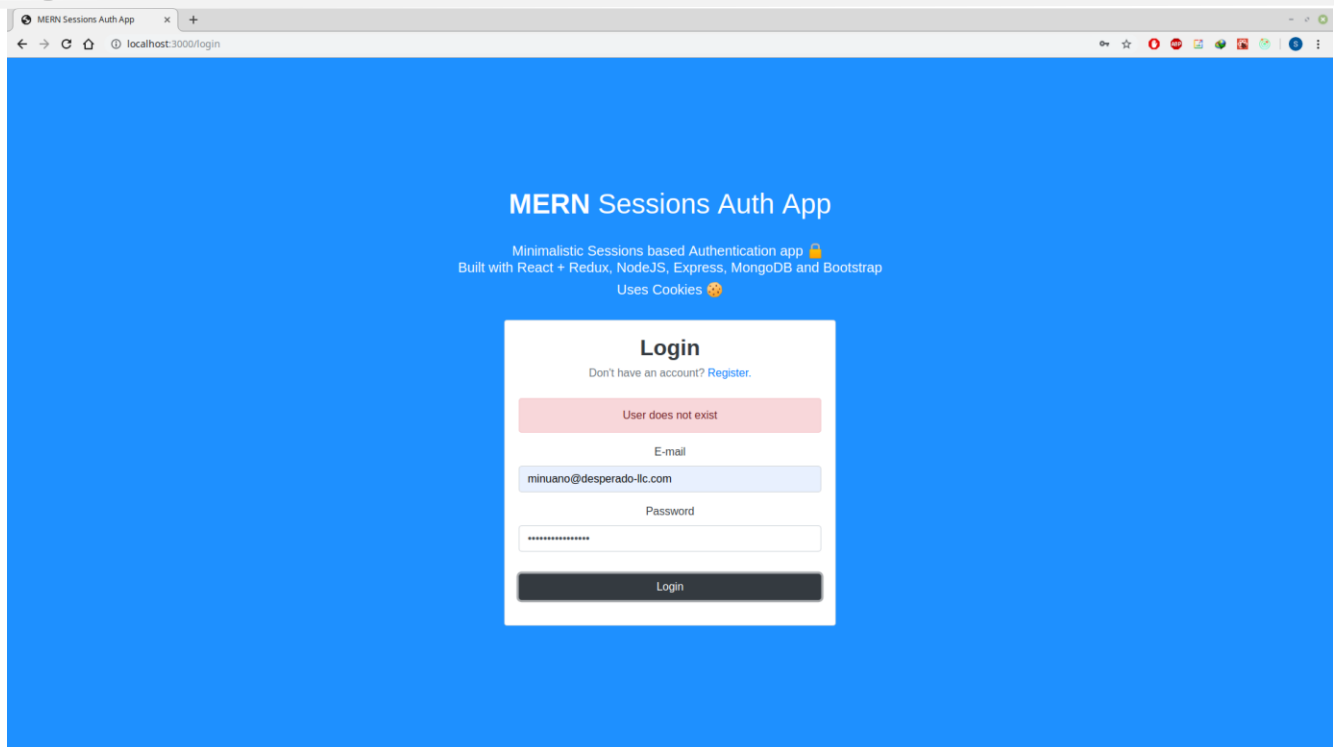
Register



Register with error message



Login with error message



MERN Login Signup Component

Minimalistic, ready-to-use component for Sessions based Login and Sign-Up using Reactjs, Redux, Bootstrap Node.js + Express and MongoDB, can be used as a starting point for another project that needs authentication.

Features

- Login page with success/error messages
- Register page with success/error messages
- Protected Profile page route that needs authentication to access
- Persistence achieved using Sessions, with session ID stored on Cookie
- Logout deletes session in database and cookie from browser
- Fully responsive across Desktop, Tablet and Mobile.

Prerequisites

- Node.js
- NPM
- React
- MongoDB Atlas MongoURI
- **.env file with ENV variables**, a .env template is provided.

For this project I uses the following technologies:

- [React](#) and [React Router](#) for frontend
- [Express](#) and [Node](#) for the backend
- [MongoDB](#) for the database
- [Redux](#) for state management between React components

Technical learning from the course

What I learnt

- Build a full stack social network app with React, Redux, Node, Express & MongoDB
- Create an extensive backend API with Express

- Use Stateless JWT authentication practices
- Integrate React with an Express backend in an elegant way
- React Hooks, Async/Await & modern practices
- Use Redux for state management
- Deploy to Heroku / Docker with a postbuild script

Bibliography or References

This course is done by me during the difficult time of covid-19, assignment by LPU as summer internship MOOC and I utilize this time by gaining hands-on experience in full stack web development for the first time by Learn code online. I spent most of the time in researching the trending technologies, gadgets, watching amazon prime videos and trying to complete the project in given time slot. I would like to thank my family, internet service provider for good internet speed and myself for being motivated for this project.

Special thanks

Mr: Sarabjit Kumar (Guide- LPU)

Mr: Hitesh choudhary (Instructor-LCO)

- App References: <https://blog.bitsrc.io/build-a-login-auth-app-with-mern-stack-part-1-c405048e3669>
- MERN Stack: <https://www.geeksforgeeks.org/mern-stack/>
 - Project Deployment: <https://docs.docker.com/>
 - Course Instructor: <https://www.hiteshchoudhary.com/>
 - Mini Project Git-Repo: https://github.com/Karanmehra7107/MERN-Inernship-LCO_cap300

Thanks.....



