

Full Stack Application Name : Course Selling Website Like Coursera

Project Overview:

this is Course Selling Website Created By me For Learning and Testing Purpose the intention Behind Project was To implement All Concepts Of MERN as well as DevOps Just To get Familiar With it..

Technologies Used:

Backend Technologies:

- 1)Server = NodeJs, Express
- 2)Database = MongoDB
- 3)Language = TypeScript
- 4)Deployment = AWS Ec2 Instance
- 5)Authentication = JWT

Frontend Technologies:

- 1)ReactJs using Vite
- 2)Styling = Material UI
- 3)Axios For Fetching
- 4)React Router
- 5)Recoil for Render Optimisations
- 5)Deployment = Vercel

Process:

1)Backend :

Database :

1. I used MongoDB, because its Optimal for This Project
2. Created Schemas , for Admin , User ,Course
3. Connected Database cluster to Root file
4. Used Mongoose for all above operations

Server Setup:

- 1)Used Express Router for fetching API endpoints
- 2)Setted up Listner in root file(index.js)
- 3)Added Routes Folder for Segregatting the Routes and Keeping Clean code
- 4) Added Middleware for handling Authentication
- 5)For authentication Used JWT
- 6)For Input Validation used ZOD
- 7)Finally Tested All Routes

Deployment:

- 1)For deployment Purpose Used AWS EC2 Insatnce
- 2) created EC2 Instance
- 3)created Key-pair
- 4)Added Secuirity Groups
- 5)ssh into EC2 machine
- 6)Installed nvm ,npm globally
- 7)Cloned Git Repo of Backend
- 8)Installed dependencies
- 9)Tried Server Running Or not
- 10)Now Its Time for CI/CD
- 11)Created Script
- 12)Used Github Actions
- 13)CD is Done

FrontEnd :

- 1)Setted Up project with vite@latest
- 2)Made Home Page
- 3)Divided Project into Folders for Code readability
- 4)used Axios For Fetching request
- 5)Made Components folder for Components
- 6)Made Store for recoil atoms
- 7)Optimised using Recoil
- 8)For Styling Purpose Used Material UI
- 9)It Gave me for faster project Completion Experience
- 10)Finally Deployed on vercel

Project Repo link: <https://github.com/sigma390/CourseSellingMono>

My GithubLink: <https://github.com/sigma390>