Report on Mini Project

"Social Networking Application"

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Course Name: Cloud Computing

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Social Media Application for Developers

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Introduction & Problem Statement

The project is a full-stack social network application using Node.js, Express, React, Redux and MongoDB Atlas. It includes authentication, profiles and forum posts. It uses JWT for user authentication and also uses the Github API to fetch user repositories. The entire application is hosted on Heroku(Paas) and the fully-managed cloud database on MongoDB Atlas(database-as-a-service).

Objectives

The objective is to create a social media app that is hosted on the cloud and uses a fully-managed cloud database for storage. The app provides developers to create accounts, write posts and comments, like and dislike comments and find other developers near you.

Solution approach/methodology

The app was built using NodeJS for the backend and ReactJS for the frontend. It uses MongoDB Atlas for persistence storage to our application deployed on Heroku(Paas).

Implementation details

Built With

- ReactJS
  The entire frontend of the application is made using React. React allows us to create components very easily.
- NodeJS
  The entire backend is made using Node. NPM (node package manager) makes doing complex activities easier by installing dependencies/packages.
- Express
  This is a package from NPM that is used to create our backend API's. It is a robust web framework for nodeJS applications.
- MongoDB Atlas(database-as-a-service)

Results

The application hosted on the cloud is live on the internet for anyone to access from anywhere. Since it's on the cloud there is no down-time and the database is scalable.

Observations / Conclusion

The application is reactive and scalable. It will allow developers with different interests meet and intereact with each other.

References

- **Github link: https://github.com/Rohitjk/DevConnect**

- **Live website: https://floating-hamlet-12342.herokua…**

- **Heroku: https://www.heroku.com/platform**

- **Mongo Atlas: https://www.mongodb.com/cloud**