SDE Course Project

Aviral Tripathi (M22MA012) Ritik Kumar (M22MA009)

IIT Jodhpur

Department of CSE

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roduction Literature Review Blog Functionality Conclusion

Research Paper

Node.js: Using JavaScript to Build High-Performance Network Programs (IEEE)



Figure: Event Loop

- ► Here are some key points from the paper
 - Node JS is a server-side JavaScript environment, for long running server processes.
 - It uses the asynchronous event model i.e there is only one thread that is processed at one time
 - ▶ When one thread is busy the processor jumps to another thread
 - It uses an event loop **P**50

Event Loop

► An event loop is a continuous process in programming that efficiently handles asynchronous tasks.

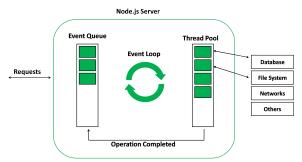


Figure: Event Loop

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MERN Stack

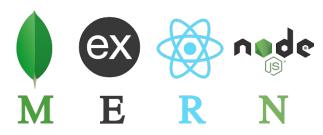


Figure: MERN Stack

- ► MERN stack is a technology stack comprising of:
 - MongoDB Database: for storing data
 - Express JS: for backend and Routes
 - ▶ React: for frontend
 - Node JS: JavaScript execution environment (backend)

Final Result

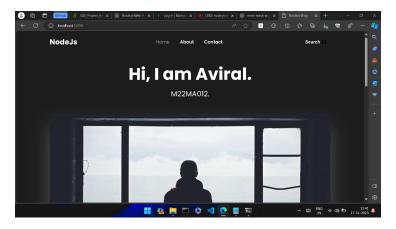


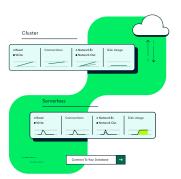
Figure: Homepage of my MERN blog

Blog Functionality



- ► The blog is having the following functionalities:
 - A user can register
 - User can login with registered credentials
 - A registered user can 'create', 'edit', and 'delete' the posts in the blog
 - Anyone can search for the blog posts in the blog

Conclusion



- We have created a very basic blog website with various functionalities of 'creation', 'editing', and 'deletion' of posts
- ► The blog is connected to Mongo DB at backend to store the data such as: Username, Passwords, Posts, user's Session Data

Thank you!



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