

## Creating a Node.js Server

http  
HyperText Transfer Protocol

Connection starts when we are sending request, and terminates right after the response has been given to the frontend

```
const http = require('http');
const app = http.createServer((req, res) => {
  res.writeHead(200);
  res.end('Happy Weekend!');
});

app.listen(4001, () => {
  console.log('Server is running...');
});
```

## Express

```
npm init
npm install express
node index.js / npm start / npm run dev
```

```
const express = require('express');
const app = express();
app.get('/hello', (req, res) => {
  res.send('Hello World!')
});

app.listen(8080, () => {
  console.log('App is running...')
})
```

## HTTP Methods GET/POST/PUT/DELETE

GET  
To retrieve data

POST  
To insert data

PUT  
To update data

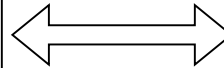
DELETE  
To delete data

## Req/Res

```
http://localhost:4000
http://127.0.0.1:4000

45.65.12.45:5000 -> https://youtube.com
https://google.com
```

Req  
header  
parameters  
body



Res  
data  
json

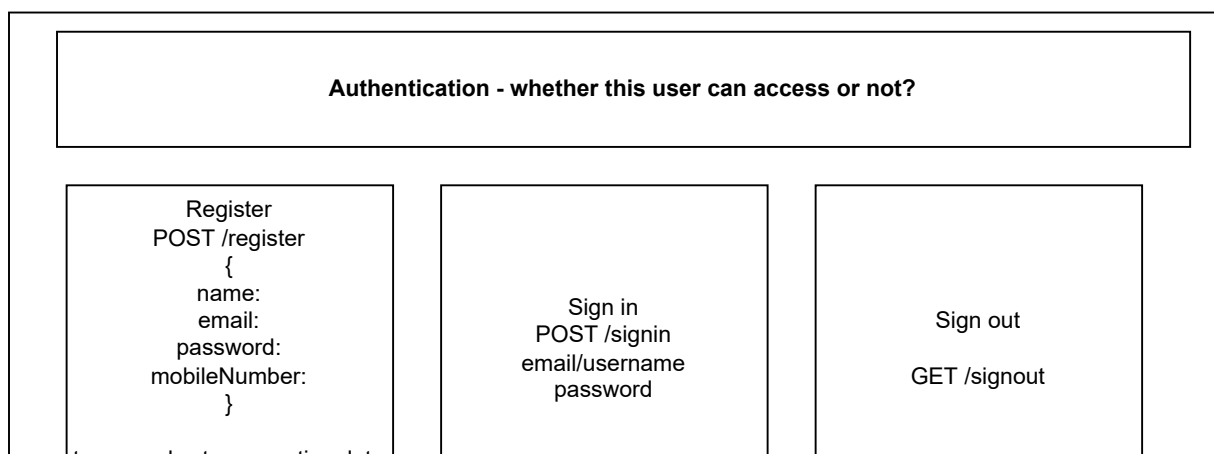
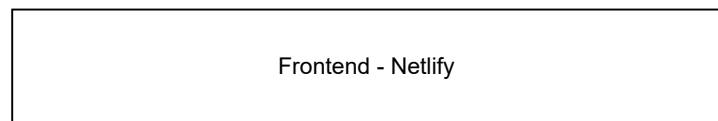
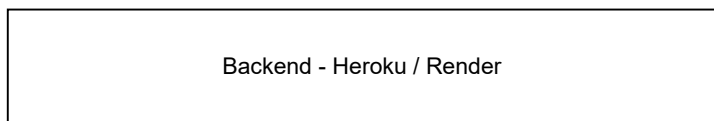
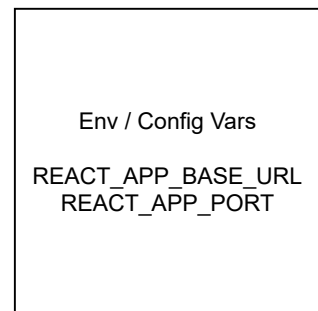
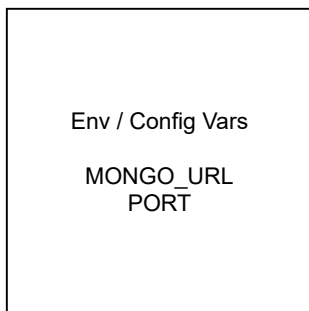
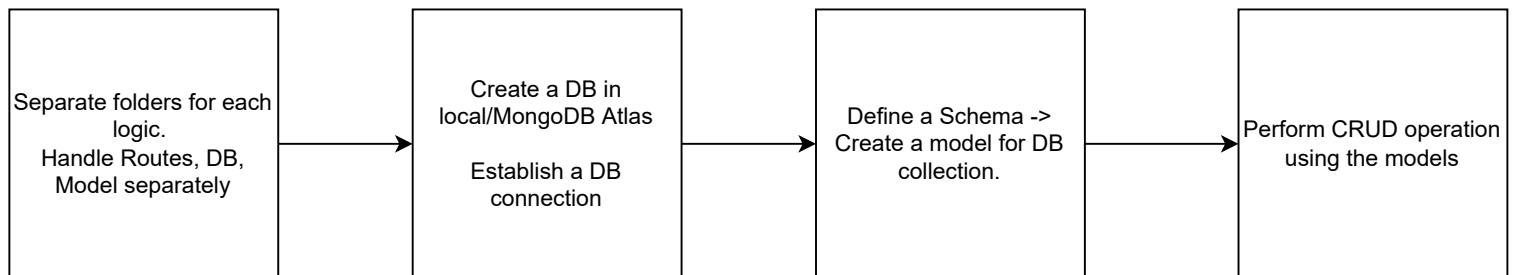
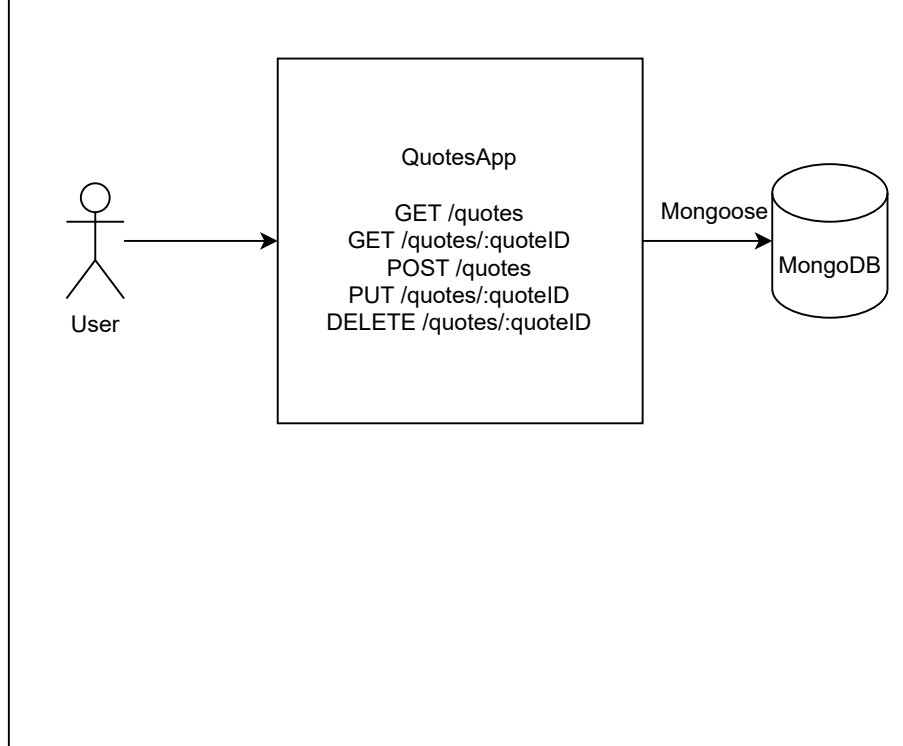
## Parameters

### PATH Parameters

```
www.example.com/users/1
www.example.com/users/100
www.example.com/products/1001
```

### QUERY Parameters

```
www.example.com/users?name=farook&city=Chennai
```



to securely store sensitive data  
-> Hashing/Encryptions

Hashing  
Original form -> Random Form  
  
Unidirectional  
  
npm i bcrypt

Encryption/Decryption  
Original form -> Random Form  
  
Bidirectional  
  
npm i jsonwebtoken

**Authorization -> who can access what?**