(npm run dev to run server.js)

# Senior Junior Connect Project (PeerNet)

1. Packages

* Express (web framework)
* Mongoose (to interact with mongodb)
* dotenv (to read the environment variables)
* mailtrap (to send emails)
* jsonwebtoken (authentication)
* cookie-parser (to parse the cookies)
* bcryptjs (to hash the passwords)
* cloudinary (to upload images)

1. Mailtrap api– used to send welcome email, connection request accepted email and comment notifications email.
2. Cloudinary API- used to upload and download images, also deleting them while deleting the posts on the feed
3. Created libraries under lib folder
4. Create middleware auth.middleware.js for authentication
5. **SignUp workflow**

User -> signup -> /api/v1/auth/signup -> handle errors if any -> save users to db -> generate jwt token and set cookie -> send welcome email

1. **Logout workflow**

User -> logout -> /api/v1/auth/logout -> clear the cookie

1. **Login Workflow**

User -> login -> /api/v1/auth/login -> check if credentials are correct -> generate token and set cookie

1. **ProtectRoute Logic**

User -> sends request to view his profile -> protectRoute() -> extract the token from cookies -> token exists -> is token Valid ?? -> getUserProfile()

1. Build models for users, posts, notifications, connections
2. Create **Rest API** for **authentication**(signup, login, logout), **users** (getSuggestedConnections, getPublicProfile, updateProfile), **posts**, **notifications**(getUserNotifications, markNotificationAsRead, deleteNotification), **connections**(sendConnectionRequest, acceptConnectionRequest, rejectConnectionRequest, getConnectionRequests, getUserConnections, removeConnection, getConnectionStatus)
3. Create REST apis for posts: getFeedPosts, createPosts, deletePosts, getPostById, createComment, likePost

**FRONTEND**

1. Inside frontend folder in terminal -> npm create vite@latest . -> select react -> select javascript -> npm I (installs everything for a react application using javascript)
2. Used tailwind css in react
3. Used daisyUI library in tailwind css
4. Using **React tanstack Query** to fetch data
5. Axios
6. **React-hot-toast** -> used to show beautiful notifications to the users
7. Cors
8. **Lucide-react** -> react library for icons
9. Using mutation functions