

📦 Technologies Used

Backend

- **Node.js**
- **Express**
- **EJS** (template engine)
- **PassportJS** (authentication)
- **express-session** (for session management)
- **axios** (to fetch meme data from an external API)

Frontend

- **Bootstrap 5.2.3** (installed via NPM)
- **jQuery** (installed via NPM)
- **Custom CSS/JS** in `/public/css/` and `/public/js/`

🔑 Authentication

- User login system implemented using **Passport Local Strategy**
- Users are stored in `users.json` (contains 3 sample users)
- Passwords are stored in plaintext for development simplicity (can be hashed using bcrypt)

🛠️ Installation Instructions

1. Clone the repository

```
```bash
git clone https://github.com/your-username/meme-app.git
cd meme-app
```

### 2. Install dependencies

```
npm install
```

This will install the following key dependencies:

```
express
ejs
```

passport  
passport-local  
express-session  
axios  
jquery  
bootstrap@5.2.3

### 3. Folder Structure

/routes        -> Express routes  
/views        -> EJS templates  
/public/css    -> Custom CSS files  
/public/js     -> Custom JS (like localStorage logic)  
users.json     -> Stores user login data  
config.json    -> Stores external API URL  
app.js        -> Main server file

### How to Run the App

Start the application with:

node app.js

Then visit:

<http://localhost:3000>

 No need for live-server. This is a full Express.js app and runs on its own.

### User Access

Role Access

Guest      View memes (no details)

Logged-in    View meme details

Sample user accounts (users.json):

```
[
 {
 "id": 1 ,
 "username": "Josh",
 "password": "Josh1"
```

```
,
{
 "id": 2,
 "username": "FJ",
 "password": "FJ1"
},
{
 "id": 3,
 "username": "Student",
 "password": "Student1"
}
]
```

## Notes

Viewed memes are tracked via:

- localStorage in browser (visual highlight)

- req.session.viewedMemes in server (can be used for logic)

All libraries are installed via NPM, no CDNs are used.