1. Create client and server folder.
   1. Client: npx create-react-app ./ (install at current directory)
   2. Server: npm init -y to initiate package.json with the basic settings
   3. Client: npm install axios
   4. Client: For styling –npm install @mui/material @emotion/react @emotion/styled
   5. Client: For JWT – npm install jwt-decode
   6. Server: npm install bcryptjs jsonwebtoken
2. In the server directory, npm install body-parser cors express mongoose nodemon
   1. Body-parser: enable post request
   2. CORS: enable cross-origin request
   3. Express: framework as routing for the application
   4. Mongoose: create model for our post.
   5. Nodemon: Help to reset the server everytime there is changes
      1. Start server with “npm start index.js” instead of “node index.js” to use nodemon. Since we added a “start” scripts.
   6. Graphical user interface, text, application

      Description automatically generated
      1. Const express = require(‘express’); is the usual syntax for backend.
      2. With the new version of node, can use import syntax. Need to add one line below “main” in package.json. “type”: module,

Text

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1. At client side copy the package.json from the video and do “npm install –legacy-peer-deps” to make sure its run smoothly
2. Create MongoDB acc, setup database– shared (free), **Database Access** - create user, **network access** – add current IP, **Datebase –** connect your application (copy the link and change the user password). Paste in server index.js as CONNECTION\_URL
3. Add routes
4. Add controllers – logic in controller export it as function to router.js
5. Add models

Auth middleware

npm install jsonwebtoken --save

**Note**

1. Cors error: add proxy in client package.json
   1. Text

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2. Connection\_url and PORT should not be posted on github publicly. Expose sensitive information.
   1. .env file is only accessible on your pc, will not be posted on github.
   2. Server: # NEED TO DO "npm i dotenv". to allow these variable to be visible via the application
      1. Text

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**YT video whole workflow explanation 2:13:20**

**MongoDB notes**

1. Collection naming convention
   1. Lowercase names: avoids case sensitivity issues, MongoDB collection names are case sensitive.
   2. Plural: more obvious to label a collection of something as the plural, e.g. "files" rather than "file"
   3. >No word separators: Avoids issues where different people (incorrectly) separate words (username <-> user\_name, first\_name <->
2. Add database name into the connection uri
   1. mongodb+srv://<username>:<password>@cluster0.vbaw8.mongodb.net/<database\_name>?retryWrites=true&w=majority
3. Import json into mongoDB with “insert document” after creating a collection