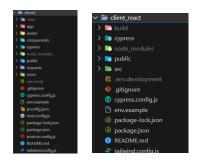
Objectives

All Objectives are completed. Following are images of completed objectives.

Tech Stack:

✓ Frontend: Next.js (Completed using both Next.js and React.js)



Design: Tailwind CSS, Bootstrap, or you can use simple CSS (Completed using Tailwind CSS and simple CSS)

tailwind.config.js

✓ Backend: Express.js (Completed)

```
Japort express from "express";
Japort bodyParser from "body-parser";
Japort cookieParser from "cookie-parser";
Japort cookieParser from "cookie-parser";
Japort cors from "cors";
Japort terrorHiddleware from "./middleware/error.js";
Japort terrorHiddleware from "./middleware from "./middleware
Japort express from "express from "./middleware
Japort ferault app;
Japort ferault
```

✓ Database: Mongo DB (Completed using MongoDB and Mongoose)

API Implementation:

- If you choose to use REST API:

 Follow REST principles strictly when designing the API endpoints. (Completed by following REST Principles)



Requirements:

- Design and Layout:
 - Replicate the provided design example for the todo list app. (Completed and images are provided)
 - Use the chosen design framework to create a visually appealing and responsive user interface. (Completed using Next.js and React.js)









Frontend Development:

Use above mentioned technologies to develop the frontend of the application. (Completed the frontend as asked)

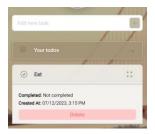




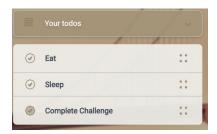
✓ Add authentication flow (login, register). You can use any design for register and login routes. (Completed Login/Signup Functionality)
 Note: Bonus Task (Token revalidation) (Completed using JWT)



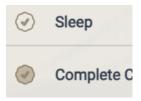
✓ Implement features for adding, editing, and deleting tasks. (Completed Features)
 Note: TODO route should be private, cannot be accessible without authentication. (Completed by making main page private)



✓ Display the list of tasks with relevant details. (Completed)



✓ Include options to mark tasks as completed or pending. (Completed)



 \checkmark Apply appropriate styling and animations as per the design. (Completed)



3. Backend Development:

✓ Use above mentioned technologies to build the backend of the application. (Completed the backend as asked)



✓ Create RESTful API endpoints for CRUD operations related to tasks. (Completed REST Api)

```
// main url for the backend server
const mainUrl = '${process.env.REACT_APP_BACKEND_API_URL}/api/v1/todo';

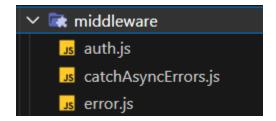
// get all to do items
export const getCompleteList = async () => await axios.get(`${mainUrl}/all');

// add new item
export const addRewItem = async (data) =>
await axios.post(`${mainUrl}/add', data);

// update an item
export const updateItem = async (id, data) =>
await axios.put(`${mainUrl}/update/${id}', data);

// delete an item
export const deleteItem = async (id) =>
await axios.delete(`${mainUrl}/delete/${id}');
```

✓ Implement necessary validation and error handling for the API. (Completed using Auth and Error Middlewares)



4. Database Integration:

✓ Set up the database and establish a connection with the backend. (Completed using mongodb cloud)

✓ Design the database collections to store task-related information. (Completed using Mongoose Schema)

```
import mongoose from "mongoose from mongoose from mon
```

✓ Implement necessary queries or operations to interact with the database. (Completed in service layer)

```
import User from "../models/userWodel.js";

// GET USER BY NAME
const getUserByName = async (name) => {
    return await User.findOne({ name: name });
};

// GET USER BY ID
const getUserById = async (userId) => {
    return await User.findById(userId);
};

// CREATE NEW USER
const getUserById = async (name, password) => {
    return await User.create({
        name: name,
        password: password,
    });
};

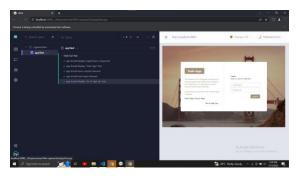
export default { getUserById, getUserByName, createUser };

import mongoose from "mongoose";
import mongoose
```

5. Testing:

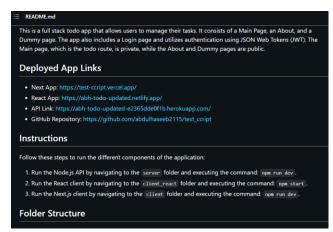
 Test the frontend and backend functionalities to ensure proper working. (Completed using manual testing and using basic features of Jest and Cypress)

```
Login
V should login to todo app (4304 ms)
Add New Todo Item
o skipped should add a new todo item
Delete An Item
o skipped should delete a todo item
Update Task Controller
o skipped should update a task
Test Suites: 1 passed, 1 total
Tests: 3 skipped, 1 passed, 4 total
Snapshots: 0 total
Time: 7.592 s, estimated 8 s
Ran all test suites.
```



- 6. Documentation and Deployment:
 - Push your code to Github or Gitlab and provide clear and add Readme.md file to provide concise documentation on how to set up and run
 the application. (Completed using Github)





 Deploy the application on a hosting platform of your choice (e.g., Heroku, Vercel, Netlify) and provide the deployment URL. (Completed using Vercel, Netlift and Heroku)

Next App: https://test-ccript.vercel.app/

React App: https://abh-todo-updated.netlify.app/

API Link: https://abh-todo-updated-e2365dde0f1b.herokuapp.com/

 $\textbf{GitHub Repository:} \ \underline{\text{https://github.com/abdulhaseeb2115/test_ccript}}$

END