

Lab Activity 8 - MERN Stack

Software System Development – Monsoon 2023

Due Date: 10th October 2023, 05:00 pm

Instructions:

- **This activity is an extension of previous one you can utilise the same Codebase.**
- Deadline mentioned during the Lab is strictly immutable. No extensions will be given.
- Any naming convention mentioned in the lab activity must be followed strictly or marks may be deducted for the same.
- Any plagiarized content will fetch zero marks for the current lab and will be followed by strict action against the students involved. However, discussion of ideas is allowed.

Submission Criteria:

- Create a folder with your **roll number as its name**.
 - Create 2 folders – server & client, which are to be placed inside a folder named as **<roll_number>**.
 - **server** folder must contain the backend source codes written in ExpressJs.
 - **client** folder must contain source code for ReactJs.
 - Compress the folder as a zip file (**name should be <roll_number>.zip**) and then upload it on the Moodle before deadline.
 - **README.md is mandatory** should contain steps for execution of your script and any extra information that you want the evaluator to know before running your script, such as dependencies on some external tools or libraries.
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Important Points to consider:

1. Use .env file for maintaining constants such as DATABASE_CONNECTION_STRING, PORT, etc. as discussed in the tutorial.
2. DO NOT include node_modules in your submission.

Database Schema:

User:

Username: string

Password: string

ToDo:

Title: string

Description: string

DueDate:Date

Status:Boolean (0 for complete, 1 for not complete)

Create To-do Page(15 Marks):

1. This Page is to create a To-Do item. **(7 marks)**
 - i. Input box containing title.
 - ii. Input box containing description
 - iii. Date Picker for To-Do item completion.
 - iv. **Create** button: Create new to-do item.

2. Date can't be previous date i.e. only future dates are allowed to create a To-Do item. **(3 marks)**
3. Click on create button to insert ToDo details entered by user in database **(5 marks)**

Complete To-do Page(10 Marks):

1. This page should display To-Do details whose status is completed for a logged in user **(5 marks)**
2. All details should be read-Only **(5 marks)**

Pending To-Do Page (20 Marks):

1. This page displays ToDo items whose status is in-complete. **(5 marks)**
2. All details should be readonly. **(2 marks)**
3. Every ToDo displayed should have 2 buttons : Done , Delete. **(3 marks)**
4. **Done** Button should change ToDo item status to complete. **(5 marks)**
5. The **Delete** button should delete the ToDo item from Database. **(5 marks)**

Logout: (5 marks)

1. Logout from the site, redirect to the login page.