**INTRODUCTION:**

This project will be using angular 8 for front end, spring for backend and mongodb to handle database.

The idea is to make an application which will help user to maintain a todo list. Every user need to have an account to use this application. After login into this application user will be able to make new todos, edit todos, delete todos and marks todo as “done”.

**MODULE:**

1. **Registration page:**

This page will appear when user wants to sign up for this application. It will have the following fields:

1. First Name: User’s first name
2. Last Name: User’s last name
3. Email : User’s email address ( it should check for a valid email address)
4. Password: A password for user’s account
5. Submit Button : By clicking this button, all the data entered by the user will be processed.

-All the above fields should be required fields, without all the information users should not be allowed to register. Field validation is required to check if any field left blank.

If user enters all data correctly, it will save the data in the database and take user to the login page.

1. **Login page:**

This page will appear when user wants to login into the application. It will have the following fields:

1. Email : User’s email address
2. Password: A password for user’s account
3. Submit Button : By clicking this button, all the data entered by the user will be processed.

-Field validation must check in backend if the email and password is matching with the existing database. If it matches, then after clicking on “submit”, page will navigate to the todo page, otherwise it will show an error and ask for the right credentials.

1. **Todo list page:**

After login, user can see this page. This page will contain the following:

1. On the top of the screen a text input with a “Add” button. Using this user can add new todo.
2. Bellow that, it will show all the existing todos of the user. If there is nothing to show, it will show “No content” in the middle of the screen.
3. If user has existing todos, it will list them one by one.
4. There will be a check box at the starting position of every todos. By default it will be unchecked. When user wants to mark a todo as done, by clicking on this check box will strike though the checked todo.
5. There will be a delete button at the end of every todos. By clicking on it, it will erase the todo from database and the UI. Before deleting a todo it should show a warning message.