

ToDoMaster Project Documentation

Overview:

ToDoMaster is a web application developed to manage tasks and to-do lists efficiently. It provides users with features to create, update, and track tasks along with their subtasks. The application also offers authentication functionality allowing users to securely log in and manage their tasks.

Tech stack :

1. Javascript
2. ReactJS
3. used Mobx insted of Redux
4. react-router-dom

Command to run the project:

1. git clone <https://github.com/shashank4208/todoMaster.git> (clones the project)
2. npm install(installs all the necessary package)
3. npm start

Features:

- **User Authentication:** Users can log in using the provided email (`todouser@gmail.com`) and password (`todouser`).
- **Task Management:** Users can add new tasks, edit existing tasks, and add subtasks to tasks.
- **Task State Management:** Tasks can be moved between different states (todo, inprogress, done). By default, tasks are in the Todo state. Once all subtasks are completed, the task transitions to the done state automatically.
- **Local Storage:** All data is stored in the browser's local storage to prevent data loss if the user closes the tab or refreshes the page.

Pages:

1. **Login Page:** Allows users to log in to their account.
2. **Home Page:** Displays all tasks with their respective states.
3. **Add New Task Page:** Enables users to add new tasks.
4. **Profile Page:** Shows the user's profile details and provides options to log out.
5. **Edit Task Page:** Enables user to edit the selected task.

Key Points:

1. **Data Storage:** All data and functions are organized into three files present in `dataStore` folder:
 - ``RootStore.js``: The top-level store that manages other stores.
 - ``ProfileStore``: Manages user profile details and related actions.
 - ``TaskDataStore``: Handles tasks-related data and operations.
2. **Navigation:**
 - To visit the profile page, users can click on the circle icon in the top-right corner of the home page.
 - To log out, users can go to the profile page and click on the logout button, which clears all user data and tokens stored in local storage and navigated to login page.
3. **Task Operations:**
 - To edit a task, users can click on the task title.
 - To mark a subtask as done (when in progress), users can click on the subtask to scratch it, indicating completion.
 - To delete a task, users can click on the delete button located on the right side of the task.
4. **Creating New Users:**
 - Users can create new accounts using the provided API endpoint.
 - API URL: ``https://api.escuelajs.co/api/v1/users/``
 - Body:

```
``json
{
```

```
"name": "ToDoUser1",  
"email": "todouser@gmail.com",  
"password": "todouser",  
"avatar": "https://picsum.photos/800"  
}  
...
```

- Users can utilize Postman or any API testing tool for this purpose.

Conclusion:

ToDoMaster provides a user-friendly interface for efficient task management. With its intuitive design and robust features, users can easily organize their tasks and stay productive.