**Task Manager CRUD MEAN App**

**Security Aspects in Software Engineering**

**Name: Stefan Cliff**

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**Introduction**

The idea and functionality of this project is aimed to create a seamless and smooth Task Manager/To-Do List(s) application.

Each users lists and tasks are separate from one another, and gives the ability to cross off completed tasks, edit them as well as completely delete them from their list.

Alongside that, each list itself can be deleted and edited (*the name of the list specifically*).

**Data Model**

The tables inside my database (Task Manager which is hosted online via Mongo Atlas), has three tables/collections: users, lists & tasks.

**Users:**

* Id: ObjectId (*autogenerated by Mongo*)
* email: string
* password: string
* sessions: an array that holds within itself
  + - token: string
    - expiresAt: number

**Lists:**

* Id: ObjectId (*autogenerated by Mongo*)
* Title: string
* \_userId: ObjectId

**Tasks:**

* Id: ObjectId (*autogenerated by Mongo*)
* Title: string
* listId: ObjectId
* completedTask: Boolean

**Screenshots of the Application**

## Login Page

A screenshot of a computer

Description automatically generated

## Sign-Up Page

A screenshot of a computer

Description automatically generated with medium confidence

## Main Application

### Main Page

A screenshot of a computer

Description automatically generated

### New List

A screenshot of a computer

Description automatically generated with medium confidence

### Update List

A screenshot of a computer

Description automatically generated with low confidence

### New Task

A screenshot of a computer

Description automatically generated with low confidence

### Update Task

A screenshot of a computer

Description automatically generated with low confidence

**Summary**

In general, the apps performance is ok as the tasks aren’t demanding. Some features I could add would be the ability to resort/order by the lists/tasks by A-z and by the date they were made.

Another feature could be the ability to “star” a task and act like a pin of some kind that would protect it from being edited/deleted unless it was completed first.