

Task App

LLD: Low level design

- **SCOPE :**

1. **Goal of app :** Providing a platform where an individual can track his/her tasks.
2. **Target audience :** Any individual
3. **Functionality and features :**
 1. **Generic list view :** Where all the tasks being represented in form of list. Clicking on which will open a detailed view of that specific task.
 2. **Reminders :** A reminder can be set against individual task in order to get an in-app notification to complete it. Could be repeated reminder or specific to a date.
 3. **Task Groups :** Multiple tasks can be grouped under the specific named groups.
 4. **Tags :** Every task can be labeled with some set of tags which can help in prioritisation, etc. **(WIP)**

- **DATABASE :**

Task

Column names	Column types	Description / Constraints
Id	Int	Primary key, Auto-increment
Title	Varchar(100)	
Description	Varchar(500)	
User_id	Int	Foreign key (users table)
Group_id	Int	Foreign key (groups table)
Created_at	Datetime	
Updated_at	Datetime	Trigger (of setting current date if any of other fields get changed)

Users

Column names	Column types	Description / Constraints
Id	Int	Primary key, Auto-increment
Email	Varchar(50)	
Password	Varchar(512)	SHA512 hash values
Created_at	Datetime	
Updated_at	Datetime	Trigger (of setting current date if any of other fields get changed)

Groups

Column names	Column types	Description / Constraints
Id	Int	Primary key, Auto-increment
Name	Varchar(50)	
Created_at	Datetime	
Updated_at	Datetime	Trigger (of setting current date if any of other fields get changed)

- **API Doc :** (Find swagger #openapi3.0 file named task_api_doc.yml)