

Task Manager

Account Section:

- **Functions:**

- 1- Login:**

- a.** Unprotected Function
 - b.** Method: POST
 - c.** Url: /accounts
 - d.** Requirements: Username & password
 - e.** Output: Account's Token

- 2- Create Account:**

- a.** Unprotected Function
 - b.** Method: POST
 - c.** Url: /accounts
 - d.** Requirements: Model input
 - e.** Output: Account

- 3- Account Activation:**

- a.** Unprotected Function
 - b.** Method: PUT
 - c.** Url: / activation/*id*
 - d.** Requirements: None
 - e.** Output: Message

4- Get Account / Accounts:

- a.** Protected Function
- b.** Method: GET
- c.** Url: /accounts
- d.** Requirements: Bearer Token
- e.** Output: Your Account

5- Update Account:

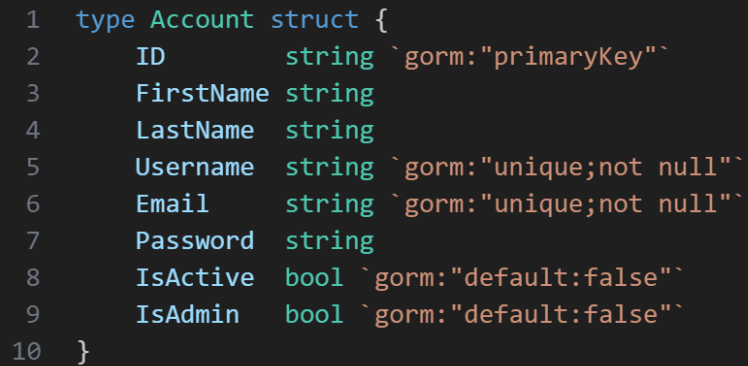
- a.** Protected Function
- b.** Method: PUT
- c.** Url: /accounts
- d.** Requirements: Bearer Token, model
- e.** Output: message

6- Delete Account: (Admin Function)

- a.** Protected Function
- b.** Method: DELETE
- c.** Url: /accounts/ *id*
- d.** Requirements: Bearer Token
- e.** Output: message

- **Model:**

Account:



```
1  type Account struct {  
2      ID          string `gorm:"primaryKey"`  
3      FirstName  string  
4      LastName   string  
5      Username   string `gorm:"unique;not null"`  
6      Email      string `gorm:"unique;not null"`  
7      Password   string  
8      IsActive   bool  `gorm:"default:false"`  
9      IsAdmin    bool  `gorm:"default:false"`  
10 }
```

Task Section:

- **Const info:**

1- Protected Functions

2- Requirements: Account's Token

- **Functions:**

1- Create Task:

a. Method: POST

b. Url: /accounts/Tasks

c. Requirements: Model info

d. Output: Task

2- Create Task: (Admin Function)

- a. Method: POST**
- b. Url: /accounts/Tasks/*Account's id***
- c. Requirements: Model info**
- d. Output: Task**

3- Get Tasks and To Do Tasks:

- a. Method: GET**
- b. Url: /accounts/Tasks**
- c. Requirements: None**
- d. Output: Account, tasks & to-do-tasks**

4- Get Tasks and To Do Tasks: (Admin function)

- a. Method: GET**
- b. Url: /accounts/Tasks/*Account's id***
- c. Requirements: None**
- d. Output: Accounts, tasks & to-do-tasks**

5- Update Task and To Do Tasks:

- a. Method: PUT**
- b. Url: /accounts/Tasks/*Task's id***
- c. Requirements: model**
- d. Output: message and task**

6- Delete Task and To Do Tasks: (Admin Function)

- a. Method: DELETE**
- b. Url: /accounts/Tasks/*Task's id***
- c. Requirements: None**
- d. Output: message**

7- Add Task to To-Do Tasks:


- a.** Method: POST
- b.** Url: / accounts/TasksToTODO/*Task's id*
- c.** Requirements: None
- d.** Output: To-Do task

8- Delete Task from To-Do tasks:

- a.** Method: DELETE
- b.** Url: / accounts/TasksToTODO/*Task's id*
- c.** Requirements: None
- d.** Output: To-Do task


- **Model:**

- 1-Tasks Model:**



```
1 type Tasks struct {
2     TaskID      string `gorm:"primaryKey"`
3     AccountID   string
4     Title       string `gorm:"not null"`
5     Description  string
6     StartDate   time.Time `gorm:"not null"`
7     EndDate     time.Time `gorm:"not null"`
8 }
```

- 2-To-Do Model:**



```
1 type To_Do_Tasks struct {
2     TaskID      string `gorm:"primaryKey"`
3     AccountID   string
4     Title       string `gorm:"not null"`
5     Description  string
6     StartDate   time.Time `gorm:"not null"`
7     EndDate     time.Time `gorm:"not null"`
8 }
9
```