بسم الله الرحمن الرحیم

**سامانه نرم افزاری دای ول (DIWHL)**

**سند معرفی پروژه**

اعضای تیم پروژه:

**محمدصالح صدیقی**

**سید امیرمحمد علوی**

**فروردین 1404**

# TABLES

## user

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Data Type | Required | Key | Unique | Default | Description |
| id | UUID | ✅ | PK | ✅ | - | Unique identifier for each user |
| username | STRING | ✅ |  |  | - | User's display name |
| email | STRING | ✅ |  | ✅ | - | Email used for login |
| password\_hash | STRING | ✅ |  |  | - | Hashed password using bcrypt |
| created\_at | DATETIME | ✅ |  |  | NOW() | Account creation timestamp |
| updated\_at | DATETIME | ✅ |  |  | NOW() | Last update timestamp |

## task

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Data Type | Required | Key | Unique | Default | Description |
| id | UUID | ✅ | PK | ✅ | - | Unique task ID |
| user\_id | UUID | ✅ | FK |  | - | References user(id) |
| title | STRING | ✅ |  |  | - | Title of the task |
| description | STRING |  |  |  | - | Task details |
| is\_completed | BOOLEAN | ✅ |  |  | false | Completion status |
| has\_due\_date | BOOLEAN | ✅ |  |  | false | Whether the task has a due date |
| created\_at | DATETIME | ✅ |  |  | NOW() | When task was created |
| updated\_at | DATETIME | ✅ |  |  | NOW() | Last modified time |

## sub\_task

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Data Type | Required | Key | Unique | Default | Description |
| id | UUID | ✅ | PK | ✅ | - | Unique subtask ID |
| task\_id | UUID | ✅ | FK |  | - | References task(id) |
| title | STRING | ✅ |  |  | - | Title of the subtask |
| is\_compeleted | BOOLEAN | ✅ |  |  | false | Whether the subtask is completed |

## due\_date

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Data Type | Required | Key | Unique | Default | Description |
| id | UUID | ✅ | PK | ✅ | - | Unique due date ID |
| task\_id | UUID | ✅ | FK |  | - | References task(id) |
| due\_at | DATE | ✅ |  |  | - | Due date of the task |
| repeat\_days | INTEGER |  |  |  | NULL | Repeat reminder days before due date |

## reminder

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Data Type | Required | Key | Unique | Default | Description |
| id | UUID | ✅ | PK | ✅ | - | Unique reminder ID |
| remindable\_id | UUID | ✅ |  |  | - | Polymorphic reference ID |
| remindable\_type | STRING | ✅ |  |  | - | "task" or "habit" |
| is\_enabled | BOOLEAN | ✅ |  |  | true | Reminder enabled or not |

## reminder\_time

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Data Type | Required | Key | Unique | Default | Description |
| id | UUID | ✅ | PK | ✅ | - | Unique ID |
| reminder\_id | UUID | ✅ | FK |  | - | References reminder(id) |
| time | TIME | ✅ |  |  | - | Reminder time |
| type | STRING | ✅ |  |  | - | "notification" or "alarm" |

## habit

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Data Type | Required | Key | Unique | Default | Description |
| id | UUID | ✅ | PK | ✅ | - | Unique habit ID |
| user\_id | UUID | ✅ | FK |  | - | References user(id) |
| title | STRING | ✅ |  |  | - | Habit title |
| description | STRING |  |  |  | - | Habit details |
| state\_mode | STRING | ✅ |  |  | - | "binary" or "four-state" |
| frequency | STRING | ✅ |  |  | - | "daily", "weekly", "monthly" |
| has\_pattern | BOOLEAN | ✅ |  |  | false | Indicates if habit follows pattern |
| created\_at | DATETIME | ✅ |  |  | NOW() | When habit was created |
| updated\_at | DATETIME | ✅ |  |  | NOW() | Last modified time |

## habit\_pattern

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Data Type | Required | Key | Unique | Default | Description |
| id | UUID | ✅ | PK | ✅ | - | Unique pattern ID |
| habit\_id | UUID | ✅ | FK |  | - | References habit(id) |
| day\_of\_week | INTEGER | ✅ |  |  | - | 0 to 6 representing Sunday to Saturday |

## habit\_log

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Data Type | Required | Key | Unique | Default | Description |
| id | UUID | ✅ | PK | ✅ | - | Unique log ID |
| habit\_id | UUID | ✅ | FK |  | - | References habit(id) |
| date | DATE | ✅ |  |  | - | Date of habit action |
| completion\_state | INTEGER | ✅ |  |  | 0 | Completion detail: 0 – 1 – 2 – 3 |