Database Schema Documentation

The MongoDB database consists of a single collection named "User" based on the provided schema. The schema defines the structure and relationships of the documents within the "User" collection.

1.User Collection

The "User" collection stores information about users and their associated tasks. Each document in the collection represents a user and contains the following fields:

- `_id` (ObjectId): The unique identifier for the user document, automatically generated by MongoDB.
- `name` (String, required): The name of the user.
- 'email' (String, required, unique, indexed): The email address of the user, which must be unique across all users in the collection. An index is created on this field for efficient querying.
- **`password`** (String, required, minlength: 8): The password of the user, which is hashed using berypt before being stored in the database. The minimum length of the password is 8 characters.
- `tasks` (Array): An array of tasks associated with the user. Each task is represented as an embedded document within the user document.

1.1 Task Embedded Document

Each task embedded document within the 'tasks' array has the following fields:

- `subject` (String): The subject or title of the task.
- `lastDateToComplete` (Date): The last date by which the task should be completed.
- `status` (String, enum: ['pending', 'in-progress', 'completed']): The status of the task, which can be one of the following values: 'pending', 'in-progress', or 'completed'.
- `isDeleted` (Boolean, default: false): Indicates whether the task has been deleted or not. By default, it is set to `false`.

- `subtasks` (Array): An array of subtasks associated with the task. Each subtask is represented as an embedded document within the task document.

1.2 Subtask Embedded Document

Each subtask embedded document within the 'subtasks' array has the following fields:

- `subject` (String): The subject or title of the subtask.
- `lastDateToComplete` (Date): The last date by which the subtask should be completed.
- 'status' (String, enum: ['pending', 'in-progress', 'completed']): The status of the subtask, which can be one of the following values: 'pending', 'in-progress', or 'completed'.
- 'isDeleted' (Boolean, default: false): Indicates whether the subtask has been deleted or not. By default, it is set to 'false'.

users 0 id string pk name email tasks password tasks id string pk subject string lastDateToComplete date status string isDeleted subtasks boolean subtasks id string pk subject string lastDateToComplete date status string isDeleted

boolean

User Task Management System