Task Management Workflow

CSE 111 Project

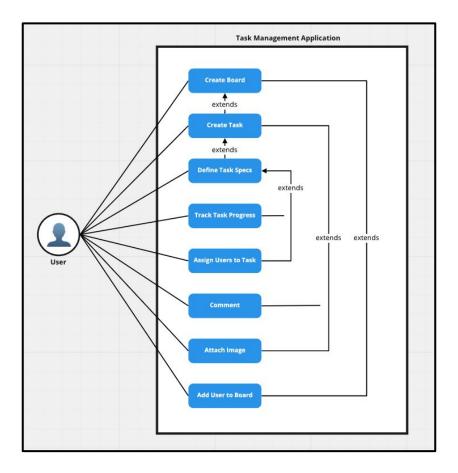
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System Description

Our project is a task management application, similar to Trello and Asana.

Users can...

- create boards for various projects and pin tasks in each board
- add other users to the board
- define specifications for each task
- track progress of a task
- assign users to a task
- comment and attach images to a task

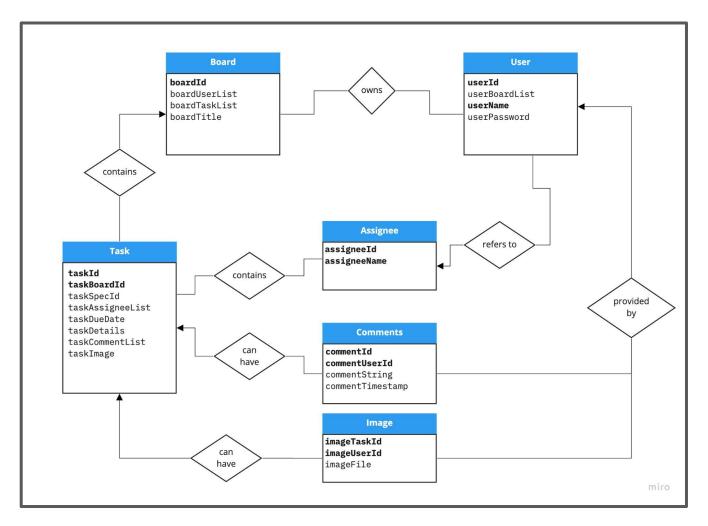


Use Case Diagram

E/R Diagram

- 6 Entities
 - o Board
 - User
 - Task
 - Assignee
 - Comment
 - o Image
- 2 Many-Many
 - Board-User
 - o Task-Assignee

Link to Board



Relational Schema

```
. .
CREATE TABLE User (
    UserId INTEGER primary key,
   Username varchar not null,
    Password varchar not null
CREATE TABLE BoardUsers (
    BoardId INTEGER NOT NULL,
    UserId INTEGER NOT NULL
CREATE TABLE Board (
    BoardId INTEGER primary key,
   Title string NOT NULL
CREATE TABLE Task (
    TaskId INTEGER PRIMARY KEY,
    BoardId INTEGER NOT NULL,
    Title string,
   DueDate varchar,
    Details string,
    Image varbinary,
    Status char(15) DEFAULT 'TO DO'
```

```
CREATE TABLE TaskAssignee (
    TaskId INTEGER NOT NULL,
    AssigneeId INTEGER NOT NULL
CREATE TABLE Assignee (
    UserId INTEGER NOT NULL,
    Username varchar NOT NULL
CREATE TABLE Comment (
    TaskId INTEGER NOT NULL,
    UserId INTEGER NOT NULL,
    CommentId INTEGER PRIMARY KEY NOT NULL,
   Message string NOT NULL,
    Timestamp varchar NOT NULL
CREATE TABLE Image (
    TaskId INTEGER NOT NULL,
    UserId INTEGER NOT NULL,
    File varbinary NOT NULL
```

Implementation Details

- Frontend: HTML, CSS, Javascript
- Backend: Node.js
 - Express.js
- Database: SQLite

Github Repository

Link to Repository