

Task Management Workflow

CSE 111 Project Phase 1

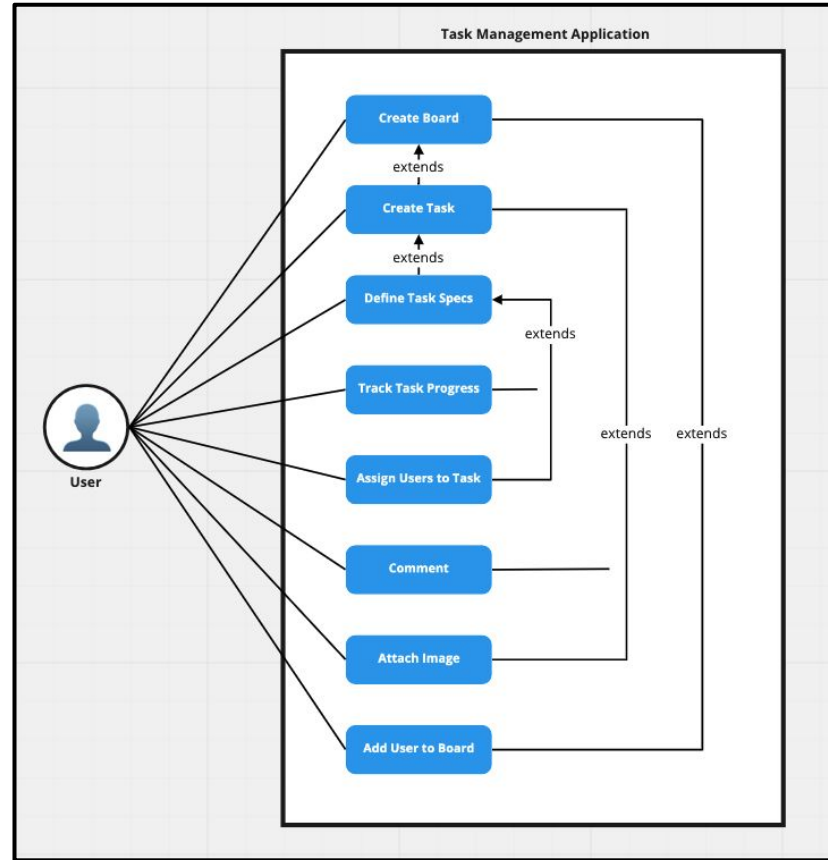
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System Description

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

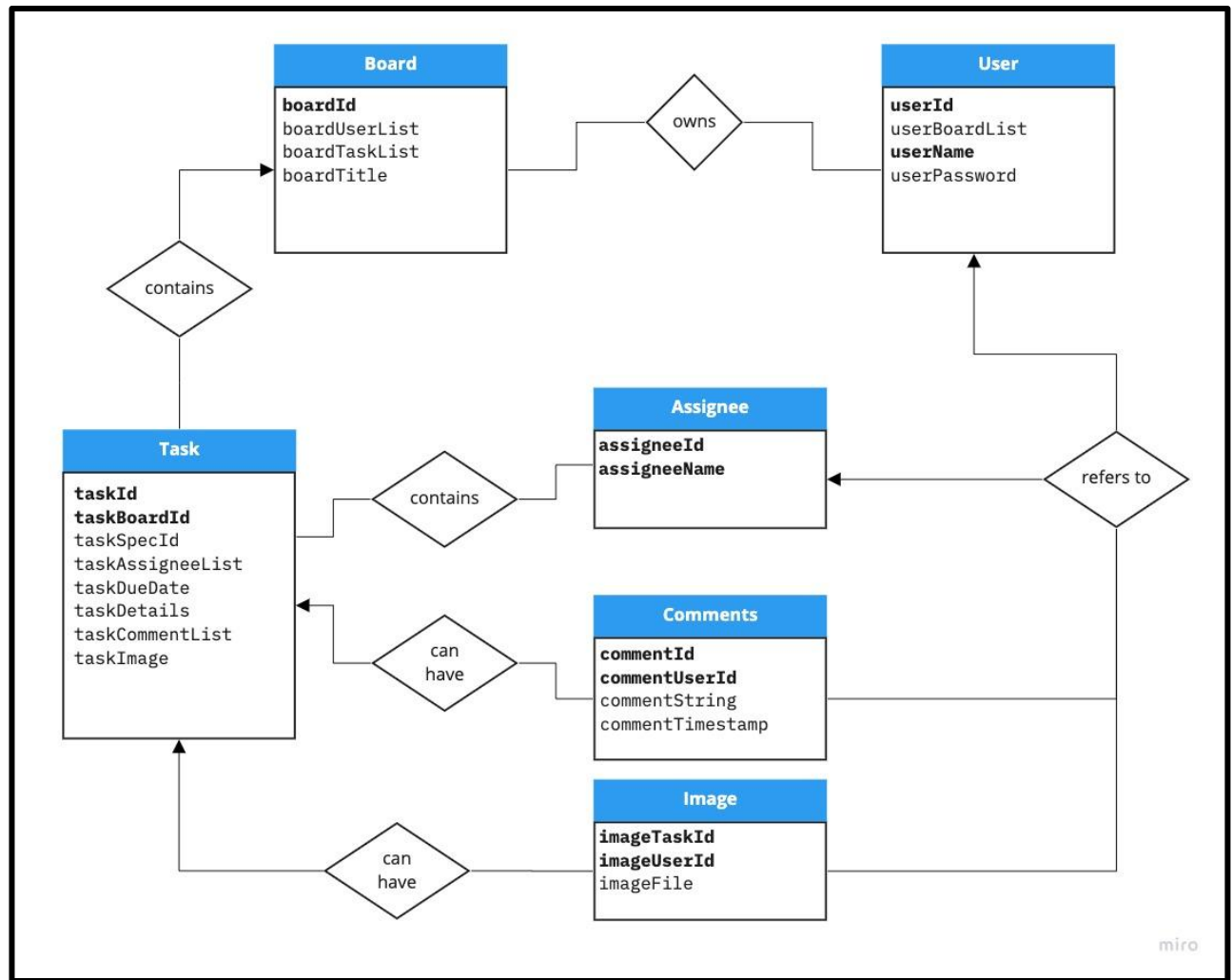


Use Case Diagram

E/R Diagram

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

[Link to Board](#)



Relational Schema

```
CREATE TABLE user {  
  u_UserId, --PRIMARY KEY  
  u_BoardList,  
  u_username,  
  u_Password  
};  
  
CREATE TABLE board {  
  b_BoardId, --PRIMARY KEY  
  b_UserList,  
  b_TaskList,  
  b_Title,  
};  
  
CREATE TABLE task {  
  t_TaskId, --PRIMARY KEY  
  t_BoardId,  
  t_SpecId,  
  t_AssigneeList,  
  t_DueDate,  
  t_Details,  
  t_CommentList,  
  t_Image  
};
```

```
CREATE TABLE assignee {  
  a_UserId, --PRIMARY KEY  
  a_username  
};  
  
CREATE TABLE comment {  
  c_CommentId, -- PRIMARY KEY  
  c_UserId,  
  c_String,  
  c_Timestamp  
};  
  
CREATE TABLE image {  
  i_TaskId -- PRIMARY KEY  
  i_UserId  
  i_File  
};
```

Relational Schema

User

- u_UserId, u_BoardList, u_Username, u_Password

Owns (User-Board)

- Id

Board

- b_BoardId, b_UserList, b_TaskList, b_Title

Task

- t_TaskId, t_BoardId, t_SpecId, t_AssigneeList, t_DueDate, t_Details, t_CommentList, t_Image

Contains (Task-Assignee)

- Id

Assignee

- a_UserId, a_Username

Comment

- c_CommentId, c_UserId, c_String, c_Timestamp

Image

- i_TaskId, i_UserId, i_File