

**CSCE 310 Database Project**

Gabe Wild

Allison Edwards

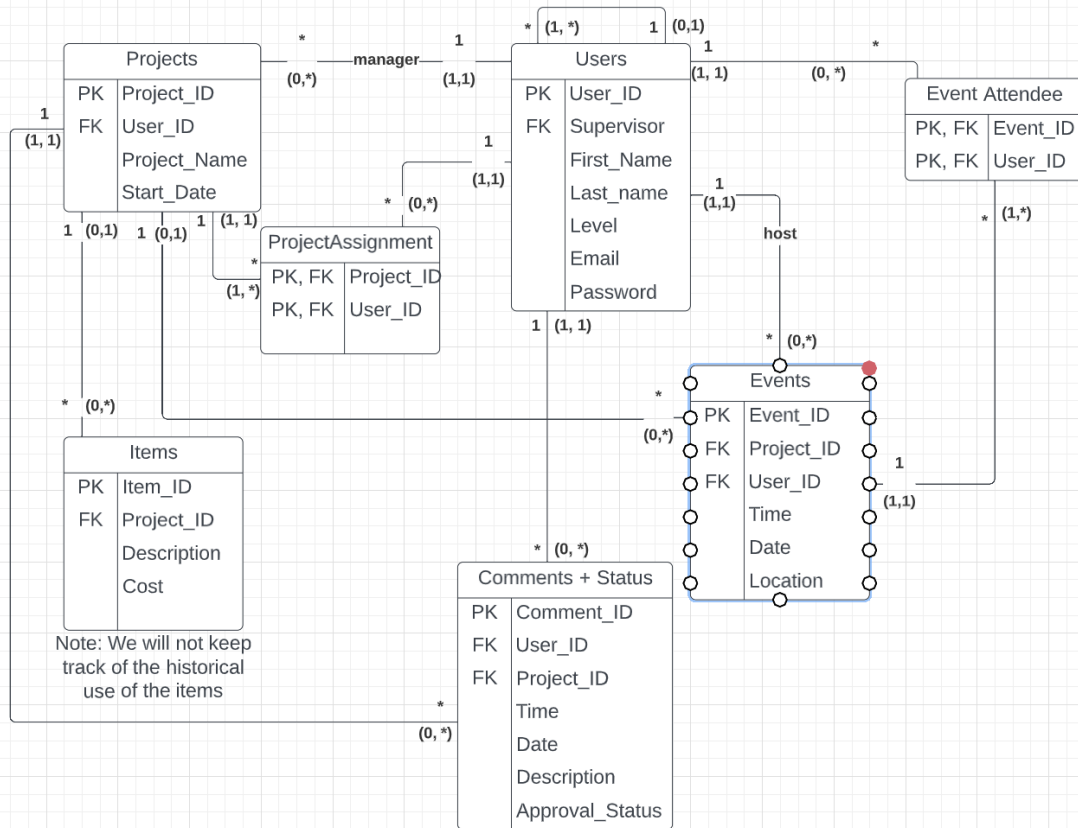
Emory Fields

John Lehan

## Changes

### Original ERD Design

#### Entity Relationship Diagram - Group 18



## Original Dependency Diagram

### Dependency Diagrams:

All tables are already in 3NF

#### Projects

Project_ID	User_ID	Project_Name	Start_Date
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#### Users

User_ID	Supervisor	First_Name	Last_Name	Level	Email	Password
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#### ProjectAssignment

Project_ID	User_ID
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#### Event Attendee

User_ID	Event_ID
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#### Events

Event_ID	Project_ID	User_ID	Time	Date	Location
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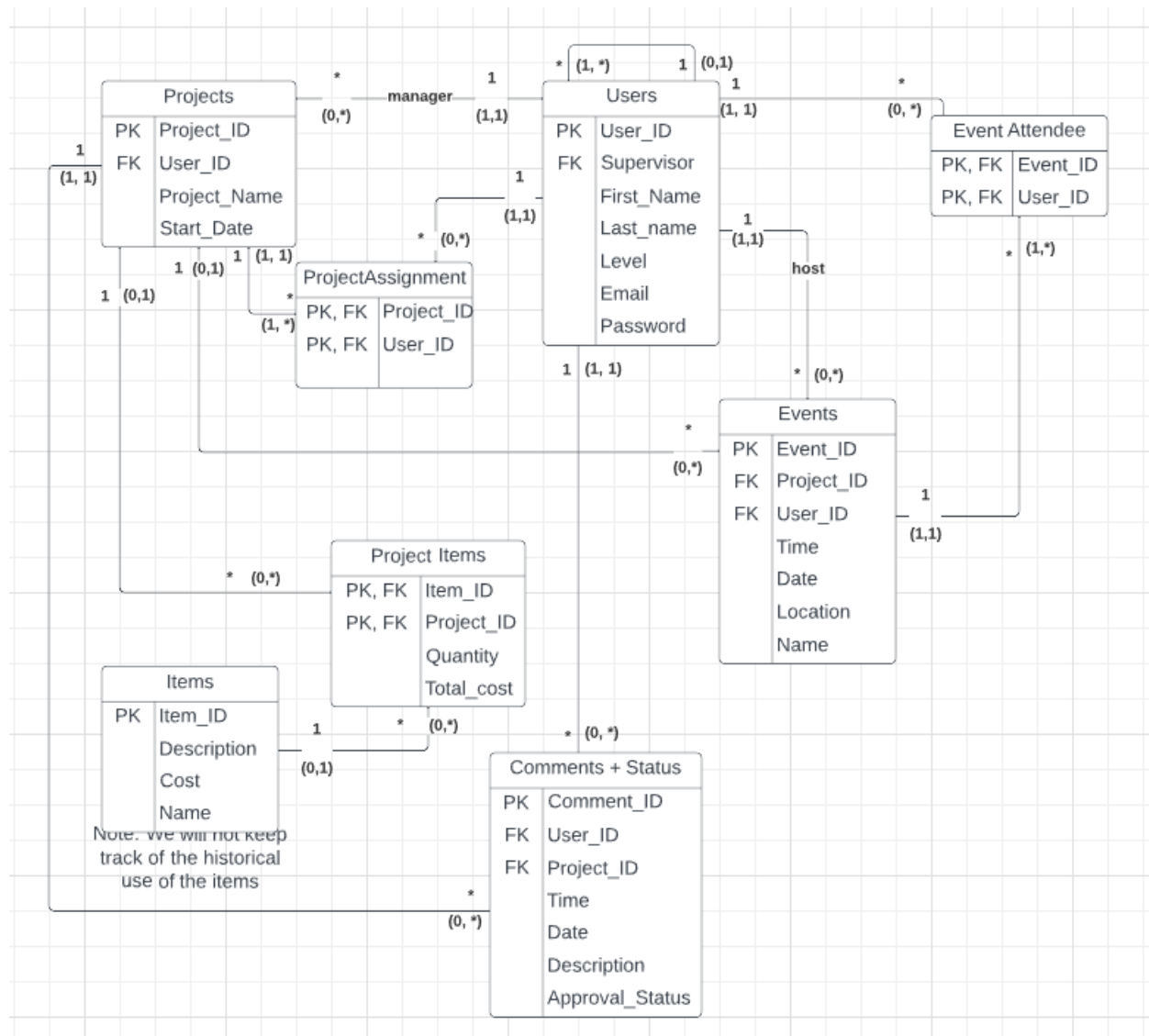
#### Comments/Status

Comment_ID	User_ID	Project_ID	Time	Date	Description	Approval Status
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#### Items

Item_ID	Project_ID	Description	Name	Cost
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*Final ERD*



## Final Dependency Diagram

### Dependency Diagrams:

All tables are already in 3NF

#### Projects

Project_ID	User_ID	Project_Name	Start_Date
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#### Users

User_ID	Supervisor	First_Name	Last_Name	Level	Email	Password
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#### ProjectAssignment

Project_ID	User_ID
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#### Event Attendee

User_ID	Event_ID
---------	----------

#### Events

Event_ID	Project_ID	User_ID	Time	Date	Location	Name
----------	------------	---------	------	------	----------	------

#### Comments/Status

Comment_ID	User_ID	Project_ID	Time	Date	Description	Approval Status
------------	---------	------------	------	------	-------------	-----------------

#### Items

Item_ID	Project_ID	Description	Name	Cost
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#### Project Item

Project_ID	Item_ID	Quantity	Total_Cost
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### *Changes Description*

We decided to allow each item to be assigned to multiple projects. This changed the one to many relationship to be a many to many relationship. To handle the many to many relationship, we added a Project Items table to record which items were assigned to each project. We also added a name attribute to the items table. We also added a name attribute to the events table. We updated these changes on both the ERD and the Dependency Diagram

### **Project Files**

<b>File Name</b>	<b>Group Member</b>
additem.php	Gabe Wild
adduser.php	Allison Edwards
addusertoproject.php	Emory Fields
availableitems.php	Gabe Wild
createitem.php	Gabe Wild
event.php	John Lehan
eventupdate.php	John Lehan
db_connection.php	Emory, Allison, Gabe, John
delete_user.php	Allison Edwards
deletecomment.php	Emory Fields
deleteevent.php	John Lehan
deleteitem.php	Gabe Wild
deleteuserfromproject.php	Emory Fields
editcomment.php	Emory Fields
edititem.php	Gabe Wild
editquantity.php	Gabe Wild
event.php	John Lehan
eventupdate.php	John Lehan
home.php	Emory, Allison, Gabe, John

items.php	Gabe Wild
login.php	Allison Edwards
newcomment.php	Emory Fields
newproject.php	Emory Fields
projectdetails.php	Emory Fields and Gabe Wild
projects.php	Emory Fields
removeitem.php	Gabe Wild
schedule.php	John Lehan
updateprofile.php	Allison Edwards
updateuser.php	Allison Edwards
users.php	Allison Edwards
viewallusers.php	Emory Fields

## Indexes

We added indexes to all tables as follows:

Table Name	Columns with Indexes
Comment_status	Comment_id User_id project_id
event_attendee	Event_id user_id
events	Event_id Project_id user_id
Item assignments	Project_id item_id
items	item_id
Project assignments	Project_id user_id

projects	project_id
Users	user_id user_id, level

## Views

### *Attached\_items*

This view was created by combining item information and item assignment information to be able to easily see the project information together with item details.

item_id	name	description	total_cost	quantity	project_id
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This is used in the project details page to easily show descriptive information about the items associated with a project.

### *Comments\_author\_info*

This view was created by combining the comment table and the user table. This shows the authors first and last names and level in one view instead of having to join the two tables every time we need to display the author's information.

comment_id	description	date	time	approval_status	first_name	last_name	user_id	level	project_id
------------	-------------	------	------	-----------------	------------	-----------	---------	-------	------------

This view is used on the project details page when displaying a comment's author and their information.

### *Projects\_users*

This view was created taking information from the project table and the user table. This shows more descriptive information about both the project and the user in one view. Instead of relying on the user id of the project manager, we can see the associated first name and last name.

project_id	user_id	project_name	first_name	last_name	start_date
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It is used for the project details page when displaying the project name and its manager's name.

### *User\_sup\_name*



This view was created taking the users table and replacing the supervisor column, which normally just contains the supervisor's user id, with their first and last name. It also removes the password from the user section because this information is not necessary for the view.

user_id	SupFirst	SupLast	first_name	last_name	level	email
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This was useful for the users page in our application to easily display all the users' information in a table format for the admin to be able to easily view. They can see who the supervisor is without having to know all of the user ids.

#### *projecttitle*

This view was created taking information from the projects table. It shows only the project\_name and project\_id. Those two fields provide all the information required to display the project name for a related entity instance.

project_id	project_name
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It is used by the schedule page when displaying the associated project name of an event.

#### *username*

This view was created taking information from the users table. It shows only the first\_name, last\_name, and user\_id. Those three fields provide all the information required to display the user's name for a related entity instance.

user_id	first_name	last_name
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It is used by the schedule page when displaying the associated creator of an event.

## **Functionalities**

### *User Functionality Set*

- Team member assigned: Allison Edwards
- Included Functionalities:
  - A registration method that is appropriate to the user type.
  - The ability to login into the user account and access proper functionality.
  - The ability to update relevant profiles.
  - The ability to delete the account and all related appropriate data
- Associated Tables

- Users
- User types and their capabilities
  - Admin
    - Add (**insert**) or **delete** a user
    - Edit (**update**) and view (**select**) all users information
  - User
    - View (**select**) their profile information
    - Edit (**update**) their profile information
    - **Delete** themselves as a user
    - NOTE: only admin can add new users

#### *Scheduling Functionality Set*

- Team member assigned: John Lehan
- Included Functionalities:
  - Create appointments
  - View appointments
  - Update appointments
  - Delete appointments
- Associated Tables
  - Events, Event\_Attendee, Projects, Users
- User types and their capabilities
  - Admin
    - Add (**insert**) meetings with no restrictions
      - Can create meetings for other users
    - Edit (**update**) or **delete** any meeting in the system
    - View (**select**) all meetings in the system
      - Special “Attending!” tag for meetings the Admin is scheduled to attend
  - User
    - Create (**insert**) a new meeting
      - Must be an attendee in the meeting to create it
    - Edit (**update**) and **delete** any meetings that they create
    - **View** any meetings that they’re attending

#### *Items Functionality Set*

- Team member assigned: Gabe Wild
- Included Functionalities:
  - Add items or experiences
  - View items or experiences
  - Update items or experiences
  - Delete items or experiences
- Associated Tables
  - Items, Project, Project Items
- User types and their capabilities
  - Admin

- Add (**insert**) or **delete** any item in the system
- Edit (**update**) and view (**select**) all items in the system
- User
  - Add (**insert**) a new item to a project
  - View (**select**) or edit (**update**) any item in their projects
  - Remove (**delete**) any item from their project

#### Comment/Status Functionality Set:

- Team member assigned: Emory Fields
- Included Functionalities:
  - Add comments, statuses, or reviews
  - View comments, statuses, or reviews
  - Update comments, statuses, or reviews
  - Delete comments, statuses, or reviews
- Associated Tables
  - Comments + Status, Project, User
- User types and their capabilities
  - Admin
    - Write (**insert**) or **delete** a comment on any project
    - Edit (**update**) and view (**select**) a comment on any project
  - User
    - Write (**insert**) a new comment
    - View (**select**) or edit (**update**) any comments that they create
    - **Delete** any comments that they create