ABC Event Planning

Project Title

ABC Event Planning Event Management System

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Executive Summary

In Project Step One, most of the feedback focused on our Entity Relationship Diagram and naming conventions, with some changes required in the project outline itself. Following the suggestions, we revised the entity names in both the outline and ERD, ensuring consistency with capitalization and making sure that the names themselves matched. The outline was revised such that the description of an entity's relationships followed the description of the entity's attributes, instead of listing the relationships between entities at the end. Furthermore, the attendee_id attribute was modified so that it was no longer unique when utilized as a foreign key in task_assignments or event_has_attendees. An is_employee attribute was added to the Attendees entity so demonstrate that the Attendees entity tracks all attendees, including employees, as the feedback detailed that it was unclear as to why an attendee would have a task associated with them.

Feedback received for Project Step Two urged us to be more clear about our entity relationships, leading us to add implementation details to each relationship (e.g. Events to tasks: 1:M relationship implemented by event_id as a FK in Tasks). We also modified our DDL.sql and DML.sql files according to the request for a more diverse data set and suggestions indicating that it was necessary to add *Foreign Key checks* and *autocommit*, as the files would not import without them. All our ID attributes were updated to auto increment, and FKs were revised from hardcoded values to now utilize subqueries.

In Project Step Three, feedback indicated incongruences with Task_definitions and Task_assignments between our outline, ERD, webpages, and schema. Thus, modifications were made to ensure consistency for all entities and relationships. Task_assignments was revised to now have an M:1 relationship to Events and Attendees, and Task_definitions only has a 1:M relationship to Task_assignments. Following the feedback, we revised our INSERT statements in the DDL.sql file to utilize auto increment instead of manually insert, and modified our DML.sql SELECT statements to use JOIN to correctly display our data on the web interface.

Project Step Four could not receive extensive feedback as we could not get our project not functional on the OSU web server nor was it functional on a local device. However, extensive revisions, including conversions from HTML to J2 format and modification of our back-end code, allowed us to get our project functional on the OSU server.

Following feedback from Project Step Five, users can no longer enter negative numbers for total_attendees in Events and capacity in Venues. Validation was also added into phone_number and email fields so that users are now required to enter valid inputs before submitting add or edit forms. We updated the status fields in the task definitions page to a drop-down option, and now also have Delete functional for task definitions. The feedback also indicated that the update form in task assignments should have a title to maintain consistency with the other pages and our cancel buttons were not functional. As such, we added the update title and ensured that cancel buttons

were functional across all pages. In addition, the remaining CRUD functionalities were implemented so that all entities and intersection tables have full CRUD capabilities.

Project Outline

At ABC Event Planning, we need a database to help us effectively organize our events. As an event planning service, our team plans approximately 200 events annually across our 10 different locations. We typically earn \$2,000 in revenue per event. However, as our business has grown, we have expanded to new locations and as expected, the number of events we plan has begun to increase. As such, we are looking to change our Event Management System to increase overall operational effectiveness. This means improving the efficiency of organizing and tracking Events, in addition to managing the variety of Tasks deemed necessary for event success. Additionally, we would like to extrapolate useful information, such as clients' preferred Venues and strategies to promote client acquisition and retention. We also require a database to store our Attendees information in an organized and efficient manner.

Database Outline, in Words

Outline of Entities

Events: records basic event information, including name, date, location

- event_id: int, not NULL, PK, AUTO_INCREMENT
- event_name: varchar(255), unique, not NULL
- event_date: date, not NULL
- total_attendees: int, not NULL
- venue_id: int, not NULL, FK
- Relationships:
 - Events to Task_assignments: 1:M relationship there is one event that each task can be associated with, and multiple tasks related to each event.
 - Events to Attendees: M:N there are many events for many attendees of each event
 - Intersection table, Events_has_attendees, exhibits the M:N relationship, where an event can have many attendees, and each attendee can attend many events.

Task_definitions: records information about tasks required to be completed to ensure the event's success; tasks could include "check in with caterers" (which would be completed by an employee who is denoted as an Attendee of the Event) or "speech at 3:15pm"

- task_id: int, not NULL, PK, AUTO_INCREMENT
- task_name: varchar(255), not NULL
- task description: TEXT, not NULL
- task_status: varchar(255), not NULL
- Relationships:
 - There is a 1:M relationship between Task_definitions and Task_assignments
 there is one task definition that each task assignment can be associated
 with, and multiple task assignments related to each task definition.

Task_assignments: creates an assignment ID for a task, as well as 1) the ID of the original task details (from the Task_definitions entity), 2) the event its associated with (found in the Events entity), and 3) the ID of the attendee that should complete the task

Note: tasks can be completed by either a company representative or a non-associated attendee (information about specific attendee can be derived from FK attendee_id and corresponding information in the Attendees entity).

- assignment id: int, not NULL, PK, AUTO INCREMENT
- task_id: int, not NULL, FK
- event_id: int, not NULL, FK
- attendee_id: int, FK
- Relationships:
 - Events to Task_assignments: 1:M relationship there is one event that each task can be associated with, and multiple tasks related to each event.
 - Attendees to Task_assignment (Optional): 1:M each attendee can be assigned many tasks
 - There is a 1:M relationship between Task_definitions and Task_assignments
 there is one task definition that each task assignment can be associated
 with, and multiple task assignments related to each task definition.

Event_has_attendees intersection table for Event and Attendees

- event_id: int, not NULL, FK
- attendee_id: int, not NULL, FK
- Relationships:
 - Exhibits the M:N relationship between Events and Attendees, where an event can have many attendees, and each attendee can attend many events.

Attendees: records information about each individual attending the event, including whether they are an employee/company representative, or simply attending the event

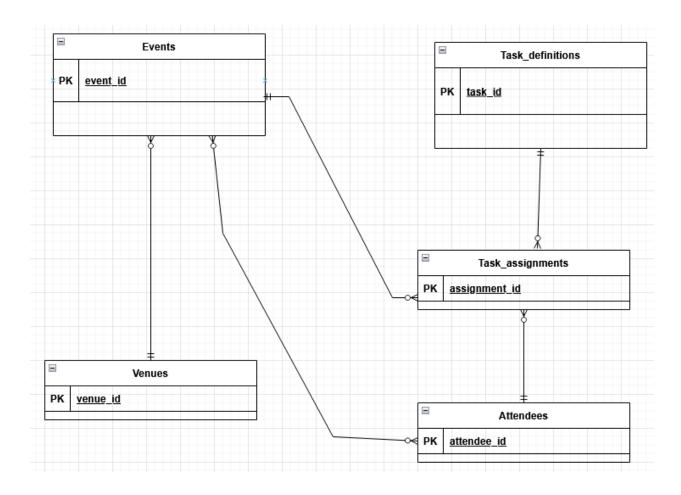
- attendee_id: int, not NULL, PK, AUTO_INCREMENT
- first_name: varchar(255), not NULL
- last_name: varchar(255), not NULL
- email: varchar(255), not NULL

- phone_number: varchar(15), not NULL
- is_employee: TINYINT(1), not NULL, default expression = 0
- Relationships:
 - Attendees to Events: M:N there are many attendees for many events
 - Attendees to Task_assignment (Optional): 1:M each attendee can be assigned many tasks

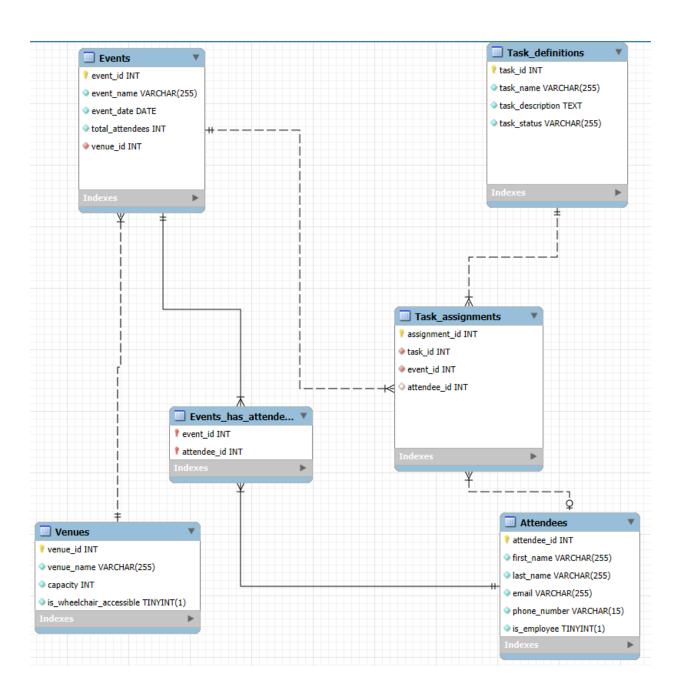
Venues: records information about venue

- venue_id: int, not NULL, PK, AUTO_INCREMENT
- venue_name: varchar(255), not NULL
- capacity: int, not NULL
- is_wheelchair_accessible: TINYINT(1), not NULL, default expression = 1
- Relationships:
 - Venues to events: 1:M it is possible for one venue to host many events.

Entity-Relationship Diagram



Schema



Sample Data

		Events_3NF		
event_id	event_name	event_date	total_attendees	venue_id
1	Tech Summit 2025	3/15/2025	200	1
2	Annual Gala Dinner	6/10/2025	150	2
3	Al Research Symposium	9/25/2025	250	3
4	Robotics Expo 2025	4/20/2025	300	4
5	Healthcare Innovation Forum	5/5/2025	180	5

me caterers	description Confirm catering services for event	task_status
caterers		
caterers	event	B 11
		Pending
	Arrange materials and check-in	
ation desk	lists	Completed
	Ensure keynote speaker has	
Preparation	necessary setup	In Progress
	Set up microphones, projectors,	
ent Setup	and laptops	Completed
	Organize seating for attendees	Pending
å	ing Plan	

Task_assignments_3NF				
assignment_id	task_id	event_id	attendee_id	
1	1	1	1	
2	2	1	2	
3	3	2	3	
4	1	3	1	
5	2	3	2	

Eve	ents_has_attendees_3NF
event_id	attendee_id
1	1
1	3
2	2
2	4
3	5

		Attendees_3NF			
attendee_id	first_name	last_name	email	phone_number	is_employee
1	John	Doe	john.doe@email.com	555-111-1111	1
2	Alice	Smith	alice.smith@email.com	555-222-2222	1
3	Bob	Johnson	bob.johnson@email.com	555-333-3333	0
4	Emma	Brown	emma.brown@email.com	555-444-4444	1
5	Liam	Wilson	liam.wilson@email.com	555-555-5555	0

		Venues_3NF	
venue_id	venue_name	capacity	is_wheelchair_accessible
1	Grand Hall	500	1
2	Conference Room A	100	1
3	Outdoor Pavilion	300	0
4	City Auditorium	600	1
5	Skyline Banquet Hall	250	1

User-Interface

HOME PAGE

Use the home page to navigate through the following entities: Events, Venues, Event_has_attendees (intersection table), Attendees, Task_Definitions, and Task_Assignments.



IMPORTANT NOTE: All Update [Entity] record forms are hidden until user selects to edit record

MANAGE EVENTS PAGE

Note: Global navigation allows users to navigate through the various "Manage [Entity]" pages

Figure below demonstrates CREATE, READ, UPDATE, and DELETE functionalities for Events entity

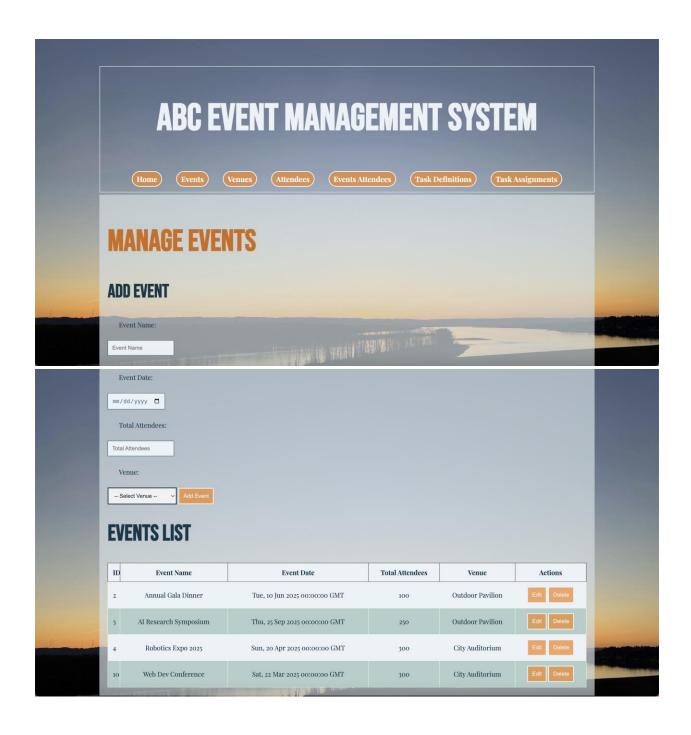
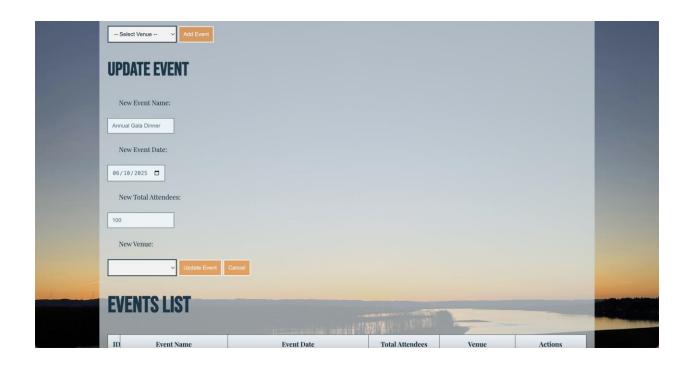
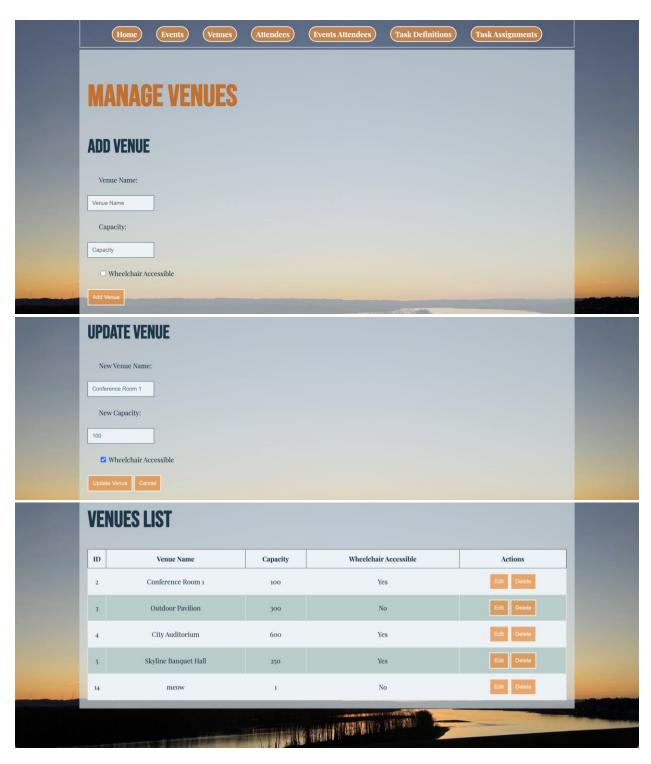


Figure below demonstrates Update functionality (hidden until user selects EDIT button)



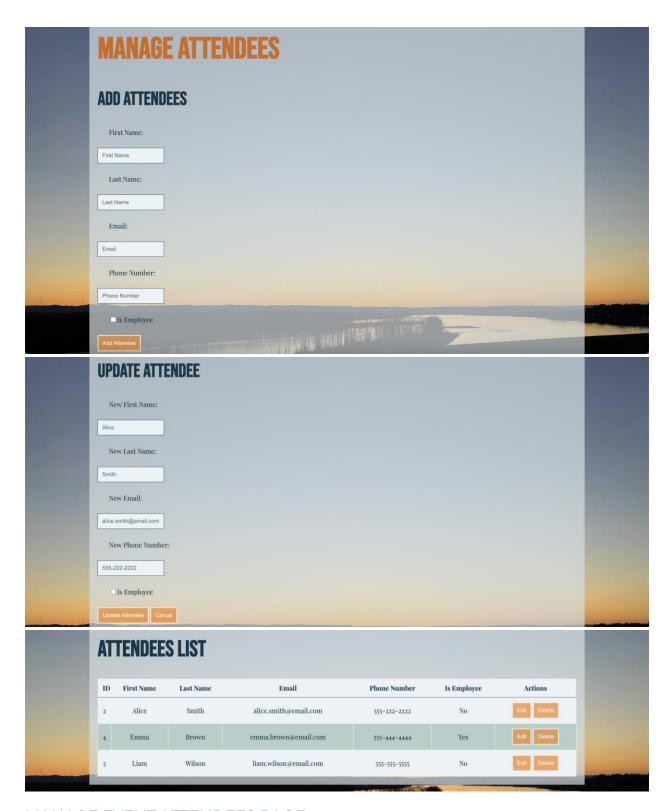
MANAGE VENUES PAGE

Figure below demonstrates CREATE, READ, UPDATE and DELETE functionalities for Venues entity



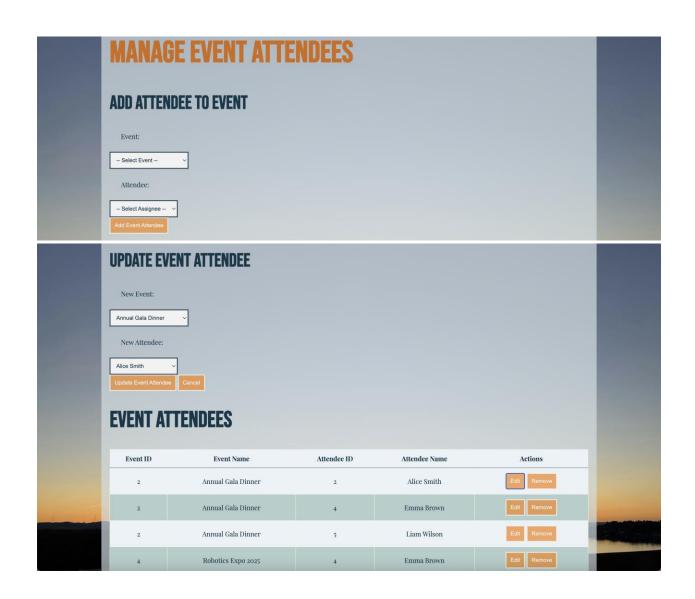
MANAGE ATTENDEES PAGE

Figure below demonstrates CREATE, READ, UPDATE and DELETE functionalities for Attendees



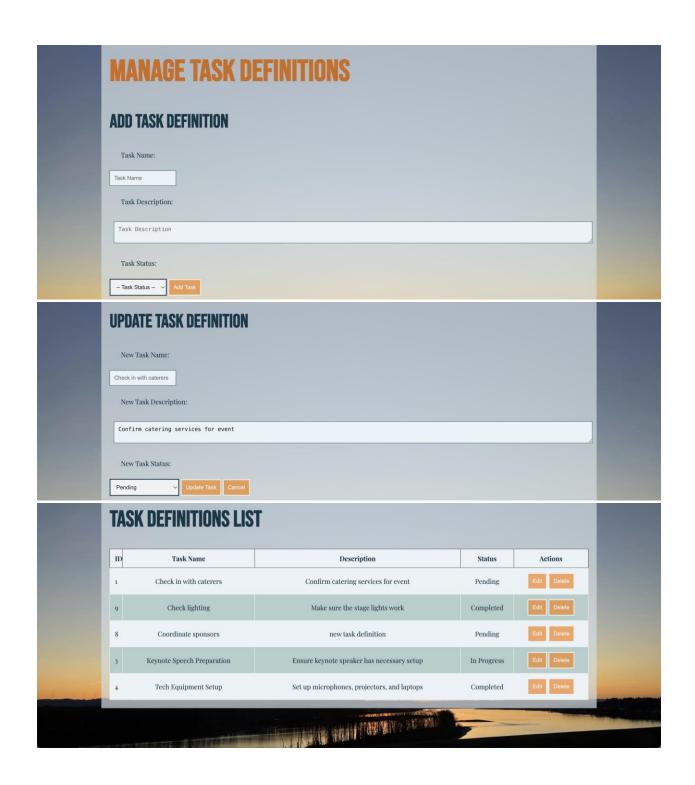
MANAGE EVENT ATTENDEES PAGE (for event_has_attendees intersection table)

Figure below demonstrates CREATE, READ, UPDATE and DELETE functionalities for Event_has_attendees



MANAGE TASK DEFINITIONS PAGE

Figure below demonstrates CREATE, READ, UPDATE and DELETE functionalities for Task_definitions



MANAGE TASK ASSIGNMENT PAGE

Figure below demonstrates CREATE, READ, UPDATE and DELETE functionalities for Task_assignments

