# Project Title – “Simple Event Management & Attendee Tracking System”

## Phase 3: Data Modeling & Relationships

### Standard & Custom Objects

For this project, we primarily used custom objects. The standard Contact object could be used for attendees in a more advanced project, but we've created a custom Attendee object to keep the scope focused.

* **Event\_\_c** (Custom): Tracks event details such as name, date, and location.
* **Attendee\_\_c** (Custom): Stores attendee information, including name, email, and phone number.

### Master-Detail Relationship

To connect attendees to a specific event, a Master-Detail relationship was created. This ensures every attendee record is directly linked to an event and inherits its security and sharing settings.

* **Master Object:** Event\_\_c
* **Detail Object:** Attendee\_\_c
* **Why:** An attendee must be linked to an event, and the deletion of an event should cascade and delete all related attendees. This relationship also allows for roll-up summary fields (though not used in this project) and ensures consistent data.

### Fields for Event\_\_c

To capture essential event details, the following custom fields were added:

* **Max Capacity** (Max\_Capacity\_\_c): Number
* **Date** (Date\_\_c): Date
* **Time** (Time\_\_c): Text
* **Location** (Location\_\_c): Text Area
* **Description** (Description\_\_c): Long Text Area

### Fields for Attendee\_\_c

To capture essential attendee information, the following custom fields were added:

* **Email** (Email\_\_c): Email
* **Phone** (Phone\_\_c): Phone
* **Event** (Event\_\_c): Master-Detail Relationship, linked to Event\_\_c.

### Schema Builder

The Schema Builder provides a visual representation of your data model. In your org, you will see a clean, direct relationship between your custom Event and Attendee objects.

### Page Layouts & Compact Layouts

Page layouts were created to organize fields and related lists for easy data entry and viewing. Compact layouts were also configured to display key information in the highlights panel.

* **Event Page Layout:** Includes details fields and a related list for Attendees.
* **Attendee Page Layout:** Includes details fields and a lookup field for Event.
* **Compact Layouts:** The Event and Attendee compact layouts were configured to display key fields in the highlights panel, providing a quick overview of the record.



