

# Project: Build an Event Management App

## Business Use Case

One of the many things that makes our Salesforce Ohana different is the events we organize with Dreamforce being the king. Over the past we have seen a lot of events being organised that follows the same format as the Dreamforce. So the idea here is to create an App on the Salesforce Platform for the Salesforce Ohana which can be used by organizers to manage the activities happening within an event.

John Doe, an active contributor in the Salesforce Ohana is all determined to create this App in order to help event organizers and to make their life easier. In an effort to finalize the requirements and the needs, John met many leaders/event organizers from the Salesforce Ohana.

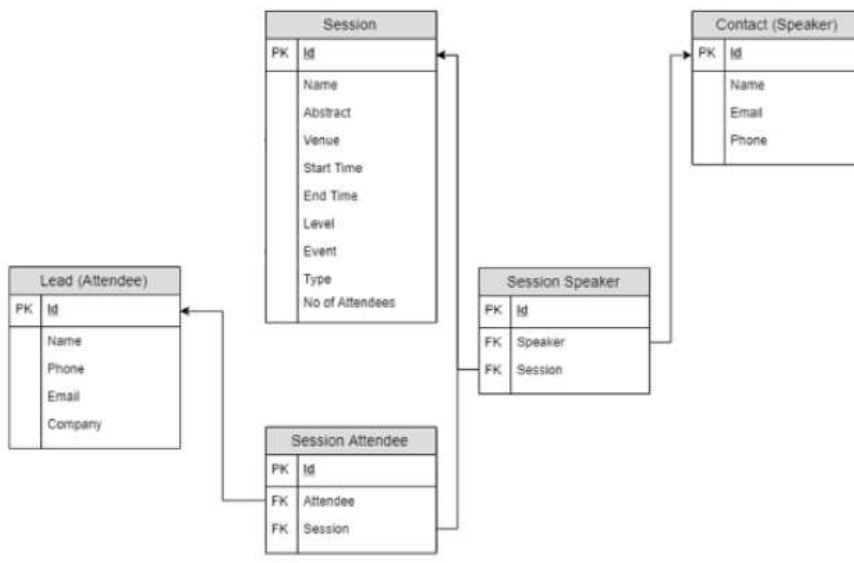
Thus, you being an aspiring Salesforce Developer, you have willingly taken up this responsibility to help John build the app.

## Data Modelling and Data Visualisation

### Schema Requirements

1. As an organizer, I should be able to store information about the sessions at my conference.
  - a. A session would typically store the following information -
    - i. Name
    - ii. Level
    - iii. Type
    - iv. Abstract
    - v. Start Time
    - vi. End Time
    - vii. Max Capacity
  - b. An organizer should be able to choose a level from a set of predefined values - Beginner, Intermediate, Advanced.
  - c. An organizer should be able to choose a type from a set of predefined values - Workshop, Hands-On, Keynote and Breakout.
2. As an organizer, I should be able to store information about the speakers that includes the Name, Email and Phone Number. Each speaker belongs to an organization.
3. As an organizer, I should be able to store the information about the attendees that includes - Name, Email, Phone Number and Company.
4. A session can have multiple speakers, and multiple attendees.
  - a. An attendee can attend multiple sessions.
  - b. A speaker can speak in multiple sessions.

### Entity-Relationship Diagram

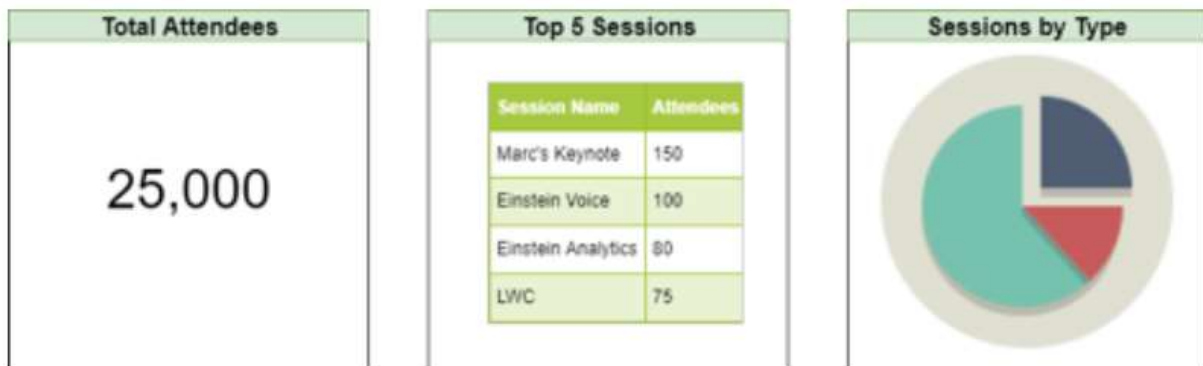


### Data Requirements

1. Import sessions data from j2sworkshop\_sessions.csv
2. Import Speakers data from j2sworkshop\_speakers.csv - To create both accounts and contacts. Make sure duplicate accounts are not inserted.
3. Assign speakers manually.
4. Add a few attendees manually.

### Visualisation Requirments

The organizers wanted to draw insights after the successful completion of the event. John was told that, they wanted a 360 degree view of the event and wanted a dashboard that displayed the following information:



### Data Model Enhancements, UI Customisation and User Setup

### Additional field requirements

- As an organizer, I should be able to see the number of attendees attending a given session.

### Basic Data Integrity Requirements

- Sessions cannot be created with start date greater than the end date.
- Attendees cant be added to a session if the capacity of the session is full.

### User Interface Requirements

- As an organizer, I should be able to see the following lists of sessions
  - Beginner Workshops
  - Intermediate Handson Sessions
  - Apex Sessions
- The highlights panel for a session must show Start Time, End Time and Total Attendees
- On the session layout, the abstract field must be in its own section which occupies 100% width.
- The Session Record Page must be shown as follows
  - Region 1
    - Details - First tab
    - Attendees - Second Tab
      - Shows only the attendees related list
  - Region 2
    - Speakers Related List

### User and Security Requirements

- The primary users of the App will be -
  - Organizer - Sys Admin
  - Event Manager
    - Session Coordinator
  - Logistics Supervisor
- Data Visibility Rules
  - The event manager will be able to see and modify all the data while the session coordinator will only be able to see/edit the sessions owned by them.
  - A session coordinator cannot delete the sessions, but an event manager can.
  - Both Event Managers and Session Coordinators must be able to see all attendees
  - Logistics Supervisor will only be able to see the attendees records, but not their email and phone number

## Business Process Automation

1. The organizers had also asked John to setup some business process automation. This includes -
  - a. As a session coordinator, I should be notified when a new session has been assigned to me.
  - b. As a session coordinator, I should be notified when the number of attendees attending a session has reached the capacity of the hall.
  - c. Two hours before the start time of a session, the speakers must receive a reminder email with count of attendees,

and start time of the session.

- d. As a session coordinator, I should be able to see post on the sessions chatter feed when speakers have been allocated for the session.
2. The organizers want to simplify data entry for speakers getting assigned to sessions. For this, they need a wizard:
- a. Step 1
    - i. Select a Session
  - b. Step 2: Enter the following details
    - i. Speaker Name
    - ii. Speaker Email
    - iii. Speaker Phone Number
    - iv. Speaker Company
  - c. Once they click on Submit, it should create the Contact, and assign the Contact to the selected session

## Business Processes Enhancements

### Additional Data Integrity Requirements

1. A speaker cannot be added to the same session twice.
2. If an attendee has registered to parallel sessions (Sessions happening at the same time/overlapping sessions), then a checkbox (Registered\_To\_Parallel\_Sessions\_\_c) on the Attendee(Lead) object must be checked automatically.

### Integration Requirements

- An external application needs real-time list of all the attendees for a particular session. The external application is capable of sending a REST Request, with the session name as a parameter, and they expect a list of attendees in JSON format.
- A daily job must run in the morning at 6 am to import attendees from <https://journey2salesforce.herokuapp.com/api/attendees>

### Testing Requirements

- You are responsible for writing Apex tests to validate the application behavior against business requirements.
- The tests should assert that the automated logic and user interface function correctly, validate application security, and ensure that the application scales for large data volumes.
- The application must meet the code coverage requirements for deployment into a full production organization.
- Apex tests should be written to be data and organization independent.

### Data Volume Requirements

The application must scale to handle the following Data Volumes:

- Hundreds of Events
- Hundreds of Sessions
- Thousands of Attendees
- Tens of Thousands of Session Attendees