Jail Management System

by

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Data-Base Project

Iteration 1
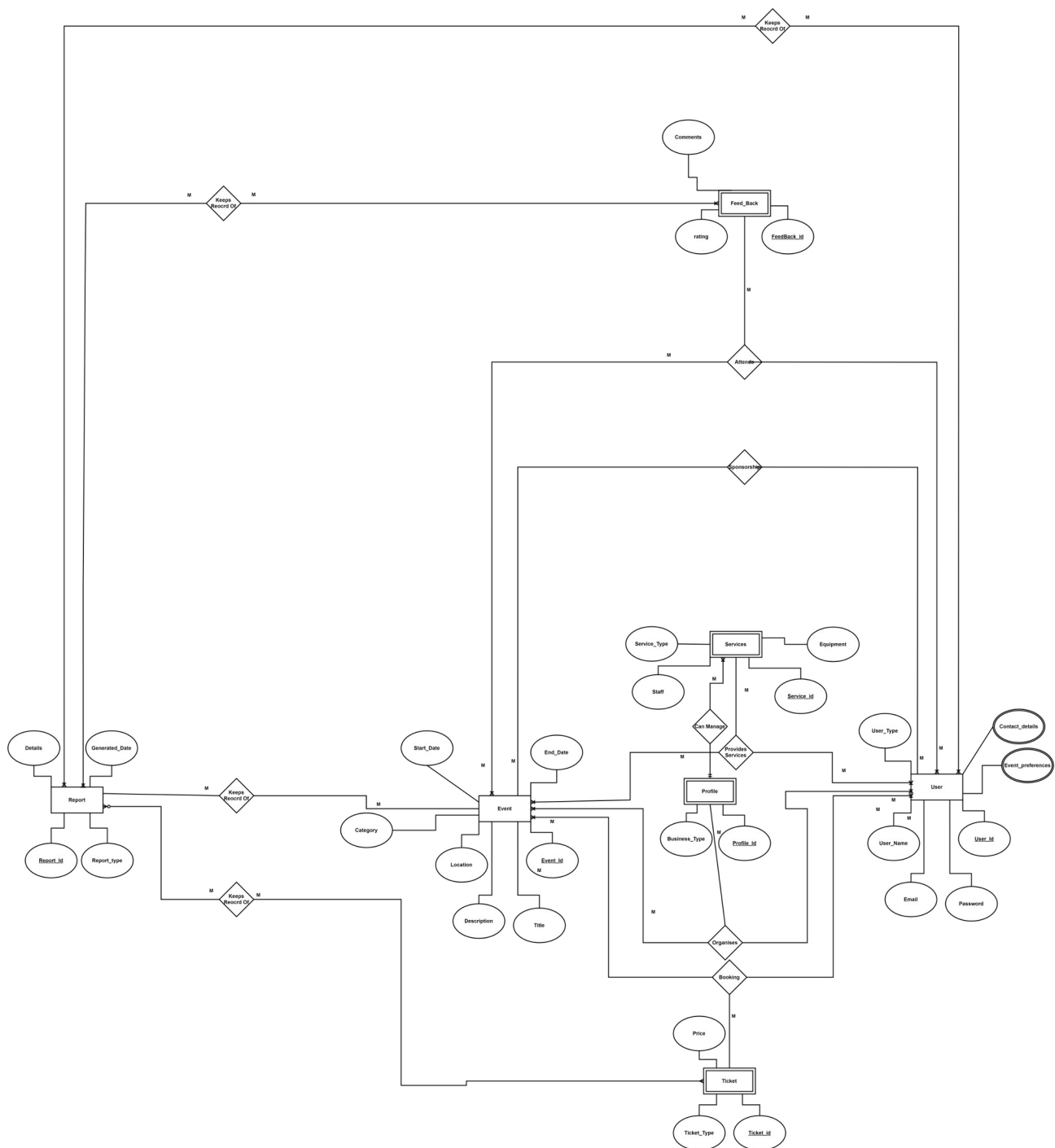
Submitted to [Ma'am Laiba Imran]

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Table of Contents

Entity Relationship Diagram:

Explanation:

User:

- Main attributes: User_id, Name, Email, Password, and User_Type.
- Multi-Variable attributes: Contact_Details and User_Preferences.
- Relationships:
    - *One User can have Many Event Tickets, and Can Attend Many Events* .

- - *Multiple Reports can Be Generated on one attendee.*
    - *Many User having type organizers, may Organize Many Events.*
    - *Many User having type vendors, may give services to Many Events.*

    - *Many User having type sponsor, may Sponsor Many Events*
    - *Many User having type attendee, may attend Many Events*
    - *Many User having type attendee, may Book many tickets for Many Events*
- **Event**:
    - Main attributes: Event_id, Title, Description, Start_Date, End_Date, Location, and Category.
    - Relationships:
        - *Many , at minimum one, Event(s) may have one or many organizers.*
        - *Many , at minimum one, Event(s) may have be provided services by one or many Users as vendors.*

        - *Many , at minimum one, Event(s) may have be sponsored by one or many Users as Sponsors.*

        - *Many , at minimum one, Event(s) may have be attended by one or many Users as attendees.*

        - *Many , at minimum one, Event(s) may have be attended by one or many Users as attendees.*

        - *Many , at minimum one, Event(s) may have one or many reports Written on it.*

- **Ticket**:
    - Main attributes: Ticket_id, Ticket_Type, and Price.
    - Relationships:
        - *A User may Book Many Tickets for Many Events.*
        - *Many Reports may be made on ticket sales*

- **Report**:
    - Main attributes: Report_id, Date, and Content_Links.
    - Relationships:
        - *Many Reports may be made on many attendee user.*

        - *Many Reports may be made on many ticket sales.*

        - *Many Reports may be made on multiple User Feedback.*

        - *Many Reports may be made on multiple Events*

- **Feedback**:
    - Main attributes: Feedback_id, Comments, and Rating.
    - Relationships:
        - *many users will submit feedback.*

- *Multiple feedback is submitted for may events*

- **Service**:
    - Main attributes: Service_id, Service_Type, and Equipment.
    - Relationships:
        - *Many Events may hire a vendor for services*
        - *A User of type vendor may provide many services .*

- **Profile:**
  ◦ Main attributes: Profile_id, Business_Type, and Email**.**
  ◦ Relationships**:**

    - *A Profile can be can manage multiple Services.*

    - *An Organizer can use one profile to manage multiple Events.*

Relational Models:

- **User**(User_id,User_type,User_name,Email,Password)

- **Event**(Event_id, Description, Location, Email, Title, Start_Date, End_Date, Category)

- **Report**(Report_id,Report_type, Details, Generated_Date)

- **BookingTable**(Booking_id, Ticket_id, Event_id, User_id)

- **Provided_ServicesTable**(Services_id, Event_id, User_id)

- **AttendsTable**(FeedBack_id, Event_id, User_id)

- **OrganizerTable**(Profile_id, Event_id, User_id)

- **Event_ReportTable**(Event_ReportTable_id,Report_id, Event_id)

- **Ticket_ReportTable**(Ticket_ReportTable_id,Report_id, Ticket_id)

- **User_ReportTable**(User_ReportTable_id,Report_id, Ticket_id)

- **Atendee_ReportTable**(Atendee_ReportTable_id,Report_id, User_id)

- **Ticket**(Ticket_id, Price, Ticket_type, Event_id, User_id)

- **Services**(Services_id, Equipment, Service_type, Staff, Event_id, User_id)

- **Profile**(Profile_id, Services, Business_type, Profile_type, Event_id, User_id)

- **Feed_Back**(FeedBack_id, comments ,rating ,Event_id, User_id)

Github:

https://github.com/SanaanAzfar/I222594_B_Project.git