

1. **Hospital Management System:**

- Entities: Patients, Doctors, Appointments, Departments, Medical Records
- Relationships: Patients can have appointments with Doctors, Patients can be admitted to Departments, Doctors can manage medical records.

2. **Social Media Network:**

- Entities: Users, Posts, Comments, Likes, Friends
- Relationships: Users can create Posts and Comments, Users can like Posts and Users can be friends with other Users.

3. **E-commerce Platform:**

- Entities: Customers, Products, Orders, Payments, Reviews
- Relationships: Customers can place Orders for Products; Customers can write Reviews for Products, Orders involve Payments.

4. **Banking System:**

- Entities: Customers, Accounts, Transactions, Loans, Branches
- Relationships: Customers can have Accounts and take Loans, Accounts can be associated with Transactions, Accounts are linked to Branches.

5. **Flight Booking System:**

- Entities: Flights, Passengers, Tickets, Airlines, Airports
- Relationships: Passengers can book Tickets for Flights, Flights are operated by Airlines, Flights depart and arrive at Airports.

6. **Hotel Management System:**

- Entities: Guests, Rooms, Reservations, Services, Employees
- Relationships: Guests can make Reservations for Rooms, Rooms can have associated Services, Employees manage Reservations.

7. **Inventory Management System:**

- Entities: Products, Suppliers, Orders, Warehouses, Customers
- Relationships: Products are supplied by Suppliers, Orders are placed for Products, Products are stored in Warehouses.

8. **Car Rental System:**

- Entities: Vehicles, Customers, Rentals, Locations, Insurance
- Relationships: Customers can rent Vehicles, Rentals are associated with Locations, Rentals may have Insurance coverage.

9. **Gaming Platform:**

- Entities: Players, Games, Achievements, Leaderboards, Chats

- Relationships: Players participate in Games, Players earn Achievements, Leaderboards display player rankings.

10. **Music Streaming Service:**

- Entities: Artists, Albums, Songs, Playlists, Subscriptions
- Relationships: Artists create Albums and Songs, Users create Playlists, Users subscribe for access to content.

11. **Restaurant Management System:**

- Entities: Dishes, Customers, Orders, Tables, Reviews
- Relationships: Customers order Dishes, Orders are served at Tables, Customers leave Reviews for Dishes.

12. **Fitness Tracking App:**

- Entities: Users, Workouts, Exercises, Goals, Progress
- Relationships: Users perform Workouts consisting of Exercises, Users set Goals and track Progress.

13. **Project Management System:**

- Entities: Projects, Tasks, Teams, Timelines, Milestones
- Relationships: Teams collaborate on Projects, Projects have associated Tasks and Timelines, Milestones mark significant progress points.

14. **Recruitment System:**

- Entities: Job Positions, Candidates, Interviews, Resumes, Companies
- Relationships: Companies post Job Positions, Candidates apply for Jobs, Interviews are conducted for Candidates.

15. **Cinema Booking System:**

- Entities: Movies, Cinemas, Screenings, Tickets, Concessions
- Relationships: Movies are shown at Screenings in Cinemas, Customers buy Tickets for Screenings and Concessions are available for purchase.