CS F212 – Database Systems

< CARNIVAL MANAGEMENT SYSTEM >

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1. INTRODUCTION/DESCRIPTION

In the carnival database system, there are various entities and relationships that model the interactions and operations within the carnival environment. It is designed to efficiently manage and facilitate the interactions between its various stakeholders (attendees, managers, employees) and their activities (tickets, events, feedback), ensuring a smooth and enjoyable experience for all participants while maintaining organizational and operational integrity.
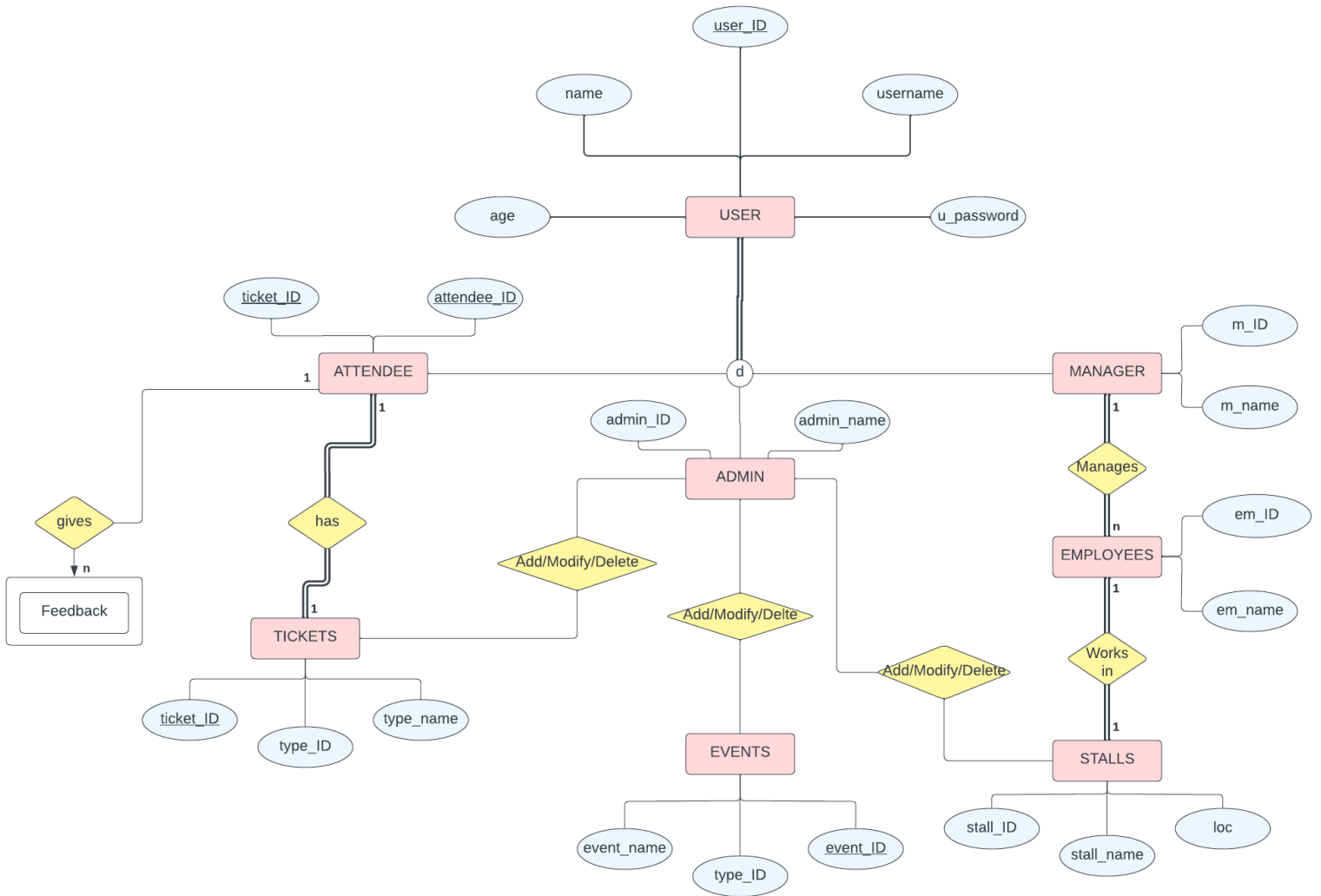
The Users are divided into Attendees and Managers. Each attendee can purchase one ticket, which are categorised based on types such as Rides, Shows and Games. Each ticket corresponds to multiple Events falling under these categories.

Coming to the internal functioning of the Carnival, managers manage employees who work at different stalls.

Constraints:
    Each ticket must belong to one user.
    Each user can give multiple feedback.
    Each event can receive multiple feedbacks.
    Each employee works in only one stall.
    Each employee is managed by only one manager.

2. ER Model

3. RELATIONAL MAPPING

User				
user_ID	username	age	u_password	name

Attendee	
attendee_ID	ticket_ID

Stalls		
stall_ID	stall_name	loc

Admin	
admin_ID	admin_name

Works in	
stall_ID	employee_ID

Manager	
MID	EID

Employee	
employee_name	employee_ID

Tickets		
type_ID	ticket_ID	type_name

Events		
event_ID	event_name	type_ID

Rides
RID

Shows
SID

Games
GID