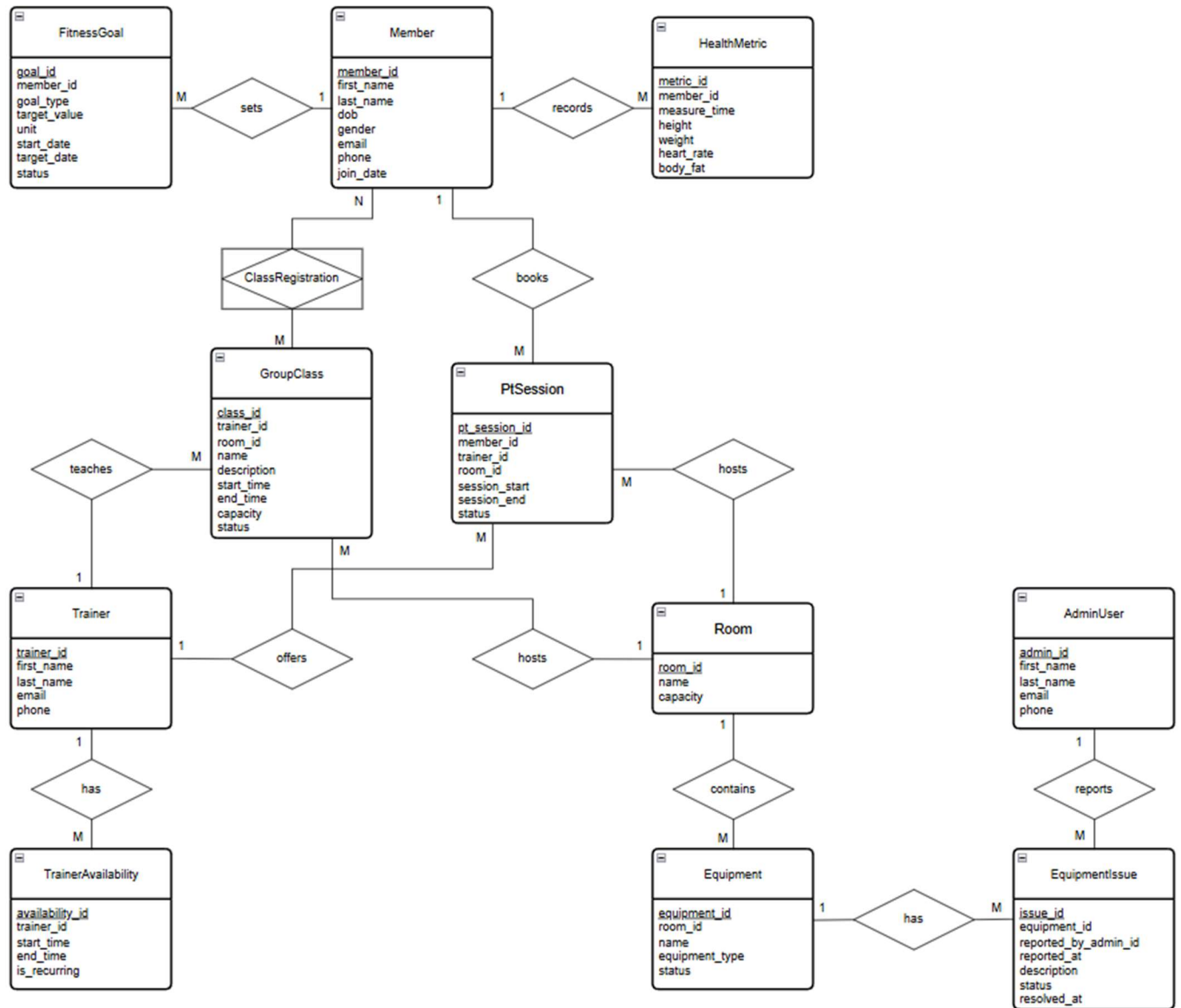


## ER Model



## ER to Relational Mapping

### MEMBER

member_id (PK)	first_name	last_name	dob	gender	email (UNIQUE)	phone	join_date
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### TRAINER

trainer_id (PK)	first_name	last_name	email (UNIQUE)	phone
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### ADMIN USER

admin_id (PK)	first_name	last_name	email (UNIQUE)	phone
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### FITNESS GOAL

goal_id (PK)	member_id (FK→MEMBER)	goal_type	target_value	unit	start_date	target_date	status
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### HEALTH METRIC

metric_id (PK)	member_id (FK→MEMBER)	measure_time	height	weight	heart_rate	body_fat
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### ROOM

room_id (PK)	name (UNIQUE)	capacity
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### EQUIPMENT

equipment_id (PK)	room_id (FK→ROOM)	name	equipment_type	status
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### EQUIPMENT ISSUE

issue_id (PK)	equipment_id (FK→EQUIPMENT)	reported_by_admin_id (FK→ADMIN_USER)	reported_at	description	status	resolved_at
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### TRAINER AVAILABILITY

availability_id (PK)	trainer_id (FK→TRAINER)	start_time	end_time	is_recurring
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### PT SESSION

pt_session_id (PK)	member_id (FK→MEMBER)	trainer_id (FK→TRAINER)	room_id (FK→ROOM)	session_start	session_end	status
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### GROUP CLASS

class_id (PK)	trainer_id (FK→TRAINER)	room_id (FK→ROOM)	name	description	start_time	end_time	capacity	status
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### CLASS REGISTRATION

registration_id (PK)	class_id (FK→GROUP_CLASS)	member_id (FK→MEMBER)	registered_at
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