



Additional Documentation

Requirement	Assumption(s)	Representation in ER Model
Members should be able to	N/A	<ul style="list-style-type: none"> One-to-one

<p>register and manage their profiles, establish personal fitness goals (you can determine suitable fitness goals such as weight and time, and members will set the values), and input health metrics. They should have access to a personalized dashboard that tracks exercise routines, fitness achievements, and health statistics.</p>		<p>connection between Member and Profile (manages)</p> <ul style="list-style-type: none"> • Member entity: payments, schedule, • Profile entity: fName, mEmail (PK), lName, pNumber, mEmail (FK), joinDate, goals (tWeight, bodyfat, deadline), hMetrics (bmi, bfPercent, wsRatio) • One-to-one connection between Member and Dashboard (accesses) • Dashboard entity: awards, routine, health (rhr, bPressure, cholesterol), mEmail(FK)
<p>Members can schedule, reschedule, or cancel personal training sessions with certified trainers. Additionally, they should be able to register for group fitness classes.</p>	<p>Personal and group as attributes of schedules connection</p>	<ul style="list-style-type: none"> • Many-to-many connection between Member and Trainer (schedules) • Trainer entity: fName, lName, tEmail (PK)
<p>Trainers should have the ability to manage their schedules and view member profiles.</p>	<p>N/A</p>	<ul style="list-style-type: none"> • Many-to-many connection between Trainer and Profile (can view) • One-to one connection between Trainer and Schedule (manages) • Schedule entity: bookings (dates, times, rooms, members), tEmail (FK)
<p>Administrative Staff should be equipped with features to manage room bookings, monitor fitness equipment</p>	<p>N/A</p>	<ul style="list-style-type: none"> • Admin entity: fName, lName, aEmail (PK) • Many-to-many connection between

<p>maintenance, update class schedules, oversee billing, and process payments for membership fees, personal training sessions, and other services.</p>		<p>Admin and Schedule (manages)</p> <ul style="list-style-type: none">• Many-to-many connection between Admin and Equipment (monitors)• Equipment entity: status, type• Many-to-many connection between Admin and Payments (processes)• Payments entity: sessions, fees, billing, aEmail (FK)
--	--	--

