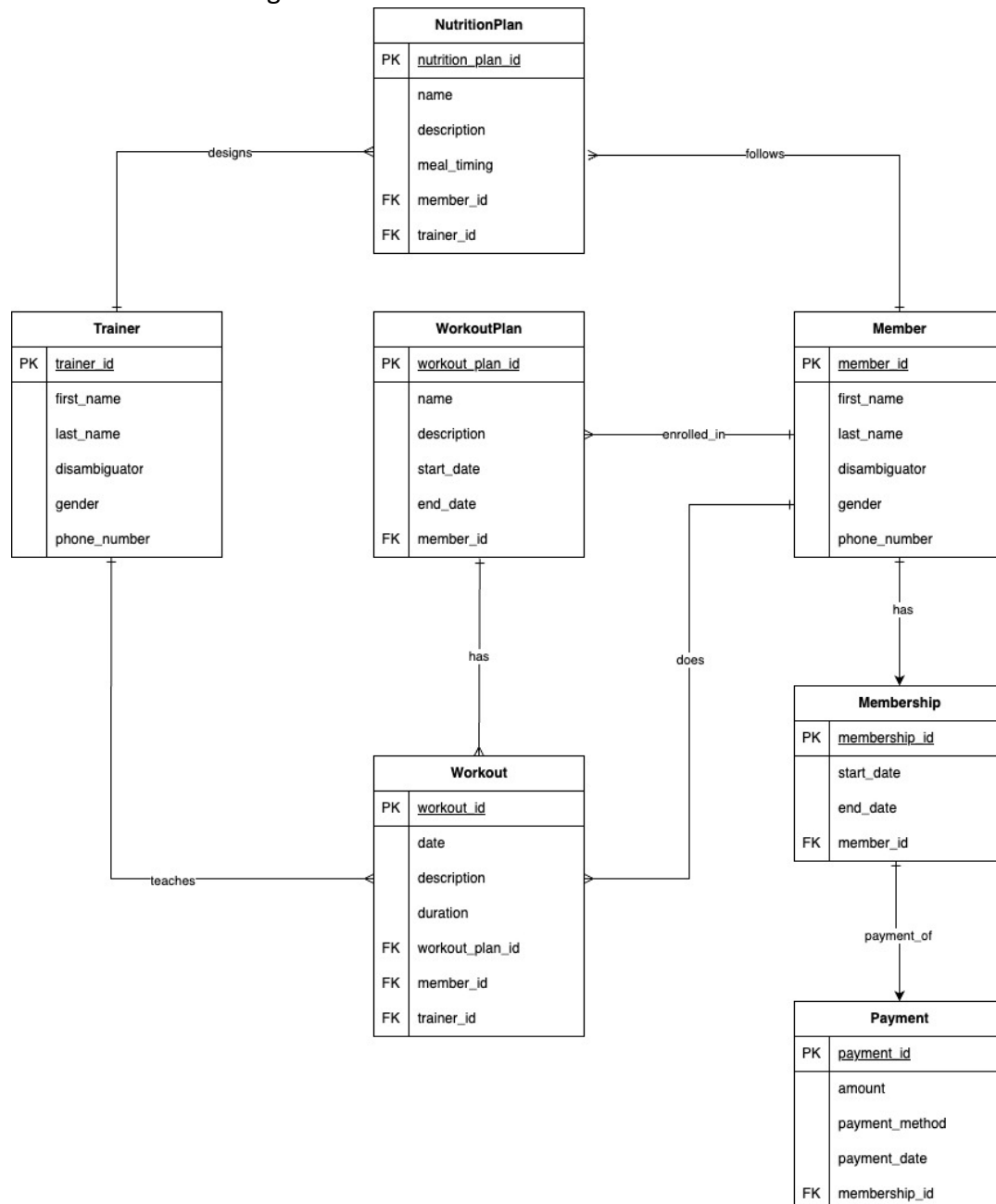


# README

## 1. Application Description

This is a fitness management application that allows gym administrators to have better management of the gym, helps trainers manage their customers and workout sessions, and enables gym members to have access to their workout plans, workouts, and nutrition plans easily.

Please see the ER Diagram below:



## 2. Authentication and Authorization Scheme

Based on the permission scheme, I have 3 permission groups: wi\_user, wi\_admin, and wi\_trainer. The wi\_user group can only view all tables, and the wi\_admin has access to all CRUD functions. As for the wi\_trainer group, the users that belong to this group can only view the membership, payment, member, and trainer without changing them. This is because the trainer group could only have access to edit and delete records in the aspect of their direct relationship with members in the gym, which means that they can have all four functionalities of workout plan, nutrition plan, and workout.

Permission/Group	wi_user	wi_admin	wi_trainer	SuperUser
<b>Workout Plan</b>				
View	X	X	X	X
Add		X	X	X
Change		X	X	X
Delete		X	X	X
<b>Nutrition Plan</b>				
View	X	X	X	X
Add		X	X	X
Change		X	X	X
Delete		X	X	X
<b>Membership</b>				
View	X	X	X	X
Add		X		X
Change		X		X
Delete		X		X
<b>Payment</b>				
View	X	X	X	X
Add		X		X
Change		X		X
Delete		X		X
<b>Member</b>				
View	X	X	X	X
Add		X		X

Change		X		X
Delete		X		X
<b>Trainer</b>				
View	X	X	X	X
Add		X		X
Change		X		X
Delete		X		X
<b>Workout</b>				
View	X	X	X	X
Add		X	X	X
Change		X	X	X
Delete		X	X	X

### 3. User IDs and Passwords

Group/User ID	Password	Active	Staff	Superuser	Group ci_user	Group wi_admin	Group wi_trainer
tester	{iSchoolUI}	X	X	X			
sysadmin	{iSchoolUI}	X	X	X			
member	{iSchoolUI}	X			X		
trainer	{iSchoolUI}	X	X				X
administrative	{iSchoolUI}	X	X			X	

As for the user groups, I have 3 groups: member, trainer, and administrative. Member group is in the wi\_user group because members can only view all the information without editing or deleting them. The trainer group is in the wi\_trainer group with the access mentioned above. And the administrative is in the wi\_admin, which has all access to the tables because they are the ones who manage the system and perform tasks like processing membership and payment. And if trainers request their help, they can assist with their access accordingly.

And the password of all user IDs is {iSchoolUI}.

### 4. Testing Instructions

Please use different user ID as below to test this application.

User ID	Password	Action
tester	{iSchoolUI}	This user is a superuser, you can test all the CRUD functions
sysadmin	{iSchoolUI}	This user is a superuser, you can test all the CRUD functions

member	{iSchoolUI}	<ol style="list-style-type: none"> <li>1. View Member</li> <li>2. View Trainer</li> <li>3. View Workout Plan</li> <li>4. View Workout</li> <li>5. View Nutrition Plan</li> <li>6. View Membership</li> <li>7. View Payment</li> </ol>
trainer	{iSchoolUI}	<ol style="list-style-type: none"> <li>1. View Member</li> <li>2. View Trainer</li> <li>3. Create/View/Edit/Delete Workout Plan <ul style="list-style-type: none"> <li>- Create: choose a member, start date, end date, name of the plan, and a description</li> <li>- Edit: update the information</li> <li>- Delete: delete the information. If the record is pointing to another table, it would fail to delete.</li> </ul> </li> <li>4. Create/View/Edit/Delete Workout <ul style="list-style-type: none"> <li>- Create: choose a member, trainer, what workout plan it belongs to, workout's date, name, description, and duration</li> <li>- Edit: update the information</li> <li>- Delete: delete the information.</li> </ul> </li> <li>5. Create/View/Edit/Delete Nutrition Plan <ul style="list-style-type: none"> <li>- Create: choose a member, trainer, name of the plan, and a description</li> <li>- Edit: update the information</li> <li>- Delete: delete the information.</li> </ul> </li> <li>6. View Membership</li> <li>7. View Payment</li> </ol>
administrative	{iSchoolUI}	<ol style="list-style-type: none"> <li>1. Create/View/Edit/Delete Member <ul style="list-style-type: none"> <li>- Create: input first name, last name, disambiguator (not required), gender, phone number (need to be enough length)</li> <li>- Edit: update the information</li> <li>- Delete: delete the information. If the record is pointing to another table, it would fail to delete.</li> </ul> </li> <li>2. Create/View/Edit/Delete Trainer <ul style="list-style-type: none"> <li>- Create: input first name, last name, disambiguator (not required), gender, phone number (need to be enough length)</li> <li>- Edit: update the information</li> <li>- Delete: delete the information. If the record is pointing to another table, it would fail to delete.</li> </ul> </li> <li>3. Create/View/Edit/Delete Workout Plan</li> </ol>

	<ul style="list-style-type: none"><li>- Create: choose a member, start date, end date, name of the plan, and a description</li><li>- Edit: update the information</li><li>- Delete: delete the information. If the record is pointing to another table, it would fail to delete.</li></ul> <ol style="list-style-type: none"><li>4. Create/View/Edit/Delete Workout<ul style="list-style-type: none"><li>- Create: choose a member, trainer, what workout plan it belongs to, workout's date, name, description, and duration</li><li>- Edit: update the information</li><li>- Delete: delete the information.</li></ul></li><li>5. Create/View/Edit/Delete Nutrition Plan<ul style="list-style-type: none"><li>- Create: choose a member, trainer, name of the plan, and a description</li><li>- Edit: update the information</li><li>- Delete: delete the information.</li></ul></li><li>6. Create/View/Edit/Delete Membership<ul style="list-style-type: none"><li>- Create: choose a member, start date, and end date</li><li>- Edit: update the information</li><li>- Delete: delete the information. If the record is pointing to another table, it would fail to delete.</li></ul></li><li>7. Create/View/Edit/Delete Payment<ul style="list-style-type: none"><li>- Create: choose a member, membership, payment method, and amount</li><li>- Edit: update the information</li><li>- Delete: delete the information.</li></ul></li></ol>
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