

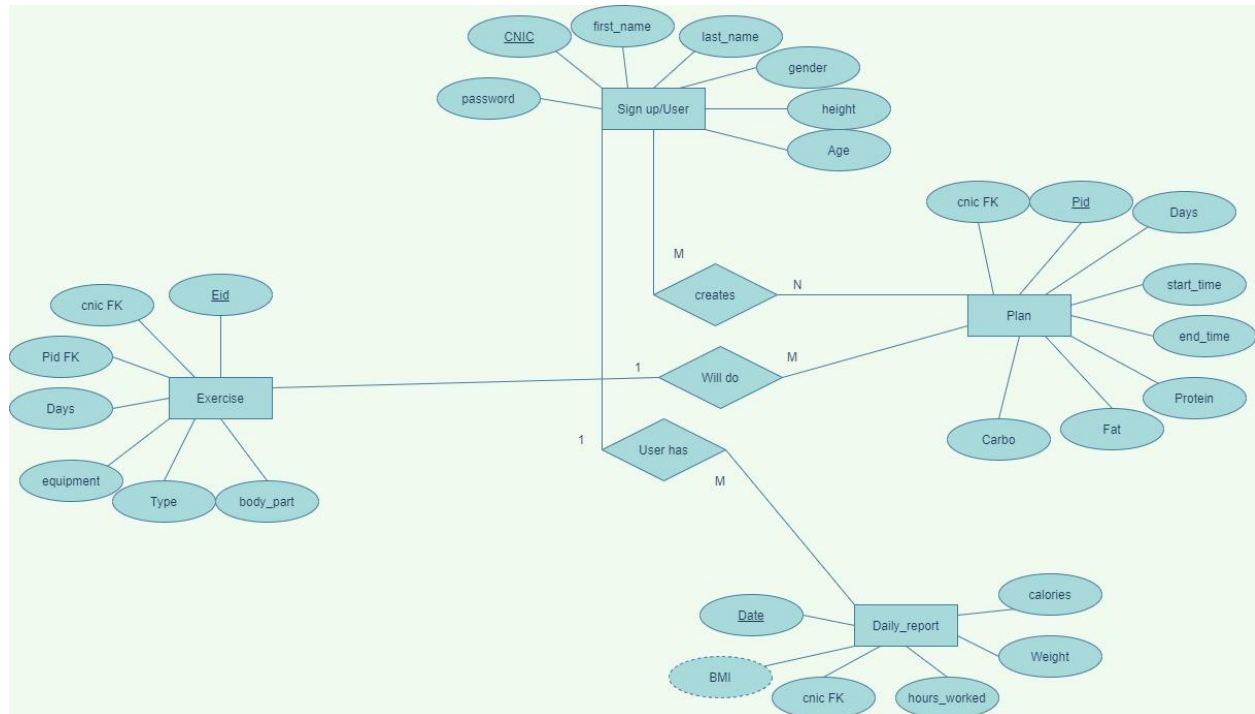
DATABASE SYSTEMS LAB

PROJECT

Group members:

- Razi Haider (19I-1762)
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ERD



Relational schema

- Sign up

<u>CNIC</u>	First_name	Last_name	Gender	Height	Age	password
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- Plan

<u>Pid</u>	CNIC (FK)	Days	Start_time	End_time	Protein	Fat	Carbo
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- Exercise

<u>Eid</u>	CNIC (FK)	Pid (FK)	Days	equipment	Type	Body_part
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- DailyReport

<u>Date</u>	BMI	CNIC (FK)	Hours_worked	Weight	calories
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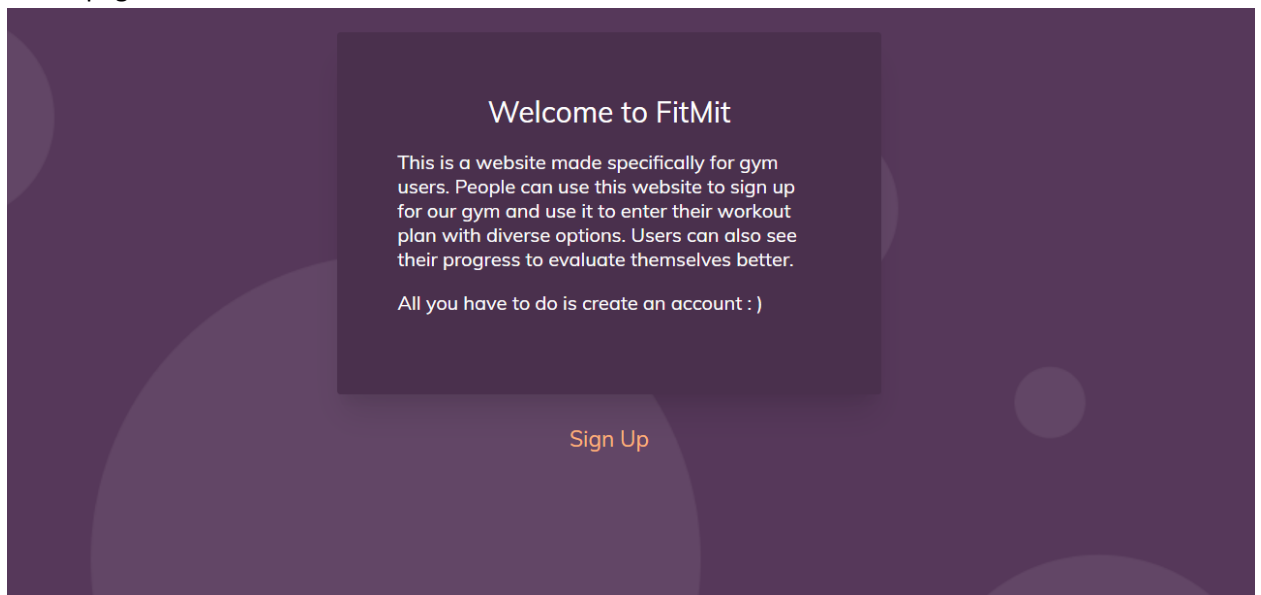
Table	Description
SignUp	Consists of attributes that are needed to make an account for a user. CNIC will be the primary key. Most of the attributes must be inserted for the requirement to be complete. The data inserted in this table will be useful for logging in so that the other tables can insert the data in front of the user id (CNIC). It will be helpful while selecting data.
Plan	Here the user will insert data to plan his/her exercise and diet plan. User will insert the number of protein, carbohydrates, and fat needed along with the day he/she wants to workout with the starting and ending time. Primary will be auto assigned by the system.
Exercise	In this table, users will choose what type of machine they want to use to workout along with what type of exercise they want to perform and what muscle they want to focus on. Primary will be auto assigned by the system.
DailyReport	Here the user will enter the number of hours he/she worked in the day, and what is their weight after the workout. Weight and height is used to calculate BMI on run time (derived attribute).

- Another page is made just for the reports. In this page, the logged in user can see what his/her progress was. Some data will be displayed under their respective headings. Each data will have a serial number displayed so that the user can see what data belongs to what date and day.

User Interface

HTML, and CSS files are used to create the front end, UI and to make the website aesthetically pleasing.

Home page



Sign Up Page

CNIC

Email

First name

Last name

Gender

Password

Age

Height

SIGN UP

Already have an account? [Login](#)

FitMit

Log In Page

CNIC

Password

LOG IN

Don't have an account? [Sign Up](#)

FitMit

Planning Page

Hello 1762 !

Days

Monday 

Starting time

--:-- -- 

Ending time

--:-- -- 

Protien

Enter your protein intake plan

Fat

Enter your fat intake plan

Carbohydrate

Enter your carbohydrate intake plan

ENTER PLAN

Next

FitMit

Exercise Page

Hello 1762 !

Equipment needed

Treadmill

Muscle

Biceps/Triceps

Type

Cardio

ENTER INFO

Next

FitMit

Daily Report

Hello 1762 !

Date

mm/dd/yyyy

Hours worked

Enter hours you worked

Calories burned

Enter number of calories burned

Weight

Enter your weight

ENTER REPORT

BMI :

Report

Hello 1762 !

Date

1. 2021-06-16

Days worked

1. Monday

Protein

1. 10

Fat

1. 20

Carbohydrates

1. 30

Equipment used

1. GymBike

Muscle worked on

1. Thighs

BMI

1. 22

Weight

1. 65

Back to [Login](#)

SQL Query Report

Results of the submitted SQL file containing DDL and DML are attached below.

1. For dropping tables.

Queries:

- drop table dailyreport;
- drop table exercise;
- drop table plan;
- drop table signup;

Explanation:

These queries are just used to drop the tables if they already exist so that there isn't any clash with the tables of the same name.

```
SQL> @"C:\Program Files (x86)\Zend\Apache2\htdocs\HTML-CSS-login-page-template-master\sql_report.sql"
Table dropped.

Table dropped.

Table dropped.

Table dropped.
```

2. For creating tables and inserting data.

Queries:

Creating tables:

- create table signup(CNIC number(38), first_name varchar2(200) not null, last_name varchar2(200) not null, email varchar2(100) not null, password varchar2(100) not null, gender varchar2(20) not null, height number(20, 2), age number(20) not null, PRIMARY KEY (CNIC));

- create table plan(pid number(38), cnic number(38), days varchar2(100), start_time varchar2(100), end_time varchar2(100), protein number(38), fat number(38), carbo number(38), FOREIGN KEY (cnic) references signup(cnic), PRIMARY KEY(pid));
- create table exercise(eid number(38), cnic number(38), plan_id number(38), days varchar2(100), type varchar2(100), equipment varchar2(100), body_part varchar2(100), FOREIGN KEY(cnic) references signup(cnic), FOREIGN KEY(plan_id) references plan(pid), PRIMARY KEY(eid));
- create table dailyreport(date_ varchar2(100), cnic number(38), hours_worked number(38), calories_burned number(38), weight number(38), bmi number(38), PRIMARY KEY(date_));

Explanation:

The “create table” queries used for creating table for each form on the pages wherever data is taken as input from the user. The tables are created in a manner that they can be linked with each other via foreign keys.

You can see “Table created” in the images below that show that these queries run just fine.

The “insert table” queries are used to insert data taken as input from the user on the web pages in the tables that were created via queries given. The data is inserted in a certain order so that there is less chance of error. For example, the tables containing foreign keys from other tables were created later. Each table is inserted with Primary keys to help distinguish them. The “1 row created” in the images below show that the queries work.

```
Table created.
```

```
1 row created.
```

```
Table created.
```

```
1 row created.
```

```
Table created.
```

```
1 row created.
```

```
Table created.
```

```
1 row created.
```

3.

Selecting data from the database tables.

Queries:

- select date_ from dailyreport where cnic=1762;
- select days from plan where cnic=1762;
- select protein from plan where cnic=1762;
- select fat from plan where cnic=1762;
- select carbo from plan where cnic=1762;
- select equipment from exercise where cnic=1762;
- select body_part from exercise where cnic=1762;
- select bmi from dailyreport where cnic=1762;
- select weight from dailyreport where cnic=1762;

Explanation:

These queries are used to select data from the tables already created based on the cnic (user_id) of a member. This way only the member selected has his/her data selected and then displayed. These queries are used on the report page where this data is displayed. The images below prove that the queries work.

DAYS

Monday

PROTEIN

10

FAT

20

CARBO

30

EQUIPMENT

Treadmill

BODY_PART

Thighs

BMI

2

WEIGHT

60