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GSUFC

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ABSTRACT

GSUFC will be a web application to provide online membership to users and to enroll in different fitness classes. The application will handle the data with a real time database.

The web application provides different types of memberships and the user can select a specific membership and get registered for the Fitness Center. The Fitness Center offers different classes and the cost of each class for the user depends on the membership purchased by user. User can view the classes in different sessions and can search for any particular class in a session. The user can view their registered classes and they can also renew his/her membership.

The administrator for the application provides the information for the user. Administrator has the ability to add or edit existing classes, sessions, memberships

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1 Project Description

1.2 Assumptions and Dependencies

ID	Details	Type
R1	The system shall allow the users to view membership types and cost for each type of membership.	• Functional
R2	The system shall enroll a new member	• Functional
R3	The system shall renew membership	• Functional
R4	The system shall login the registered user	• Functional
R5	The system shall display the classes available for the session	• Functional
R6	The system shall provide the directions on how to register for the classes	• Functional
R7	The system allow the user to register for a class	• Functional
R8	The system shall allow the user to check whether a class is full or open.	• Functional
R9	The system shall allow the administrator to add/alter/delete information for members.	• Functional
R10	The system shall allow the user to search for classes by various criteria	• Functional
R11	The system will be coded using PHP and MySQL	• Non-Functional

1.3 ASSUMPTIONS

We have considered the following Entities.

MEMBER_DETAILS

CLASS_DETAILS

MEMBERSHIP_DETAILS

SESSION_DETAILS

MEMBER_MEMBERSHIP

MEMBER_CARD_DETAILS

MEMBER_CLASS

CLASS_SESSION

ADMINISTRATOR

New Users have to register for a membership by selecting from a list of available memberships to become a member of the club.

Every Member can login using the username and password which the member provided while registration with the club

We have assumed that each member can perform the following actions

- View all the classes he is registered for in a session.
- Search for classes in a session by class name or a by instructor.
- Register for a class in a session
- Make a Payment for the classes

Member can only search for a class.

Each customer can hold any number of credit card information to his name.

Administrator has the privileges of

- Adding a session & classes for a session
- Adding memberships.
- View the available classes.
- View the available members.
- View the available sessions.

The customer and the administrator have different views for the database. Administrator has the right to add details to the Database whereas the customer can only view the available classes and register for them.

2 Project Technical Description

2.1 Project Description

Fitness center is a place where people go to maintain fitness by doing different types of workout routines. In this project we are going to provide information about fitness center i.e., about its different kind of memberships and we will provide every member their own user id and password to maintain security. Only the administrator will have all rights over everything. In this members can pay their payment through online with their credit cards and all their card information will be secured highly.

2.2 Relational database description:

```
mysql> desc administrator;
```

Field	Type	Null	Key	Default	Extra
ADMIN_ID	char(10)	NO	PRI		
PASSWORD	char(10)	NO			

2 rows in set (0.00 sec)

```
mysql> desc class_details;
```

Field	Type	Null	Key	Default	Extra
CLASS_NO	int(5)	NO	PRI		
CLASS_DESCRIPTION	char(15)	NO			
TITLE	char(15)	NO			
BASIC_COST	decimal(6,2)	NO			

4 rows in set (0.00 sec)

```
mysql> desc class_session;
```

Field	Type	Null	Key	Default	Extra
SESSION_TITLE	char(10)	NO	PRI		
CLASS_NO	int(5)	NO	PRI	0	
INSTRUCTOR	char(15)	NO			
START	date	NO			
TIME	char(10)	NO			
CAPACITY	int(3)	NO			

6 rows in set (0.00 sec)

```
mysql> desc member_card_details;
```

Field	Type	Null	Key	Default	Extra
ID_NUMBER	char(8)	NO	PRI		
CARD_NO	char(16)	NO	PRI		
CARD_TYPE	char(20)	NO			
EXPIRY_MON	char(2)	NO			
EXPIRY_YEAR	char(4)	NO			
CVV	int(3)	NO			

```
6 rows in set (0.00 sec)
```

```
mysql> desc member_class;
```

Field	Type	Null	Key	Default	Extra
ID_NUMBER	char(8)	NO	PRI		
CLASS_NO	int(5)	NO	PRI	0	
SESSION_TITLE	char(10)	NO	PRI		
REGISTERED	date	NO			
PAYMENT	char(1)	NO			

```
5 rows in set (0.00 sec)
```

```
mysql> desc member_details;
```

Field	Type	Null	Key	Default	Extra
ID_NUMBER	char(8)	NO	PRI		
PASSWORD	char(8)	NO			
LAST_NAME	char(15)	NO			
FIRST_NAME	char(15)	NO			
STREET	char(15)	NO			
APT_NUM	char(5)	NO			
CITY	char(15)	NO			
STATE	char(2)	NO			
ZIP	char(5)	NO			
PHONE	char(10)	NO			
EMAIL	char(15)	NO			

```
11 rows in set (0.00 sec)
```



```
mysql> desc membership_details;
```

Field	Type	Null	Key	Default	Extra
TYPE	char(10)	NO	PRI		
COST	decimal(8,2)	NO			
DESCRIPTION	char(15)	NO			
PERCENTAGE	int(3)	NO			

```
4 rows in set (0.00 sec)
```

```
mysql> desc member_membership;
```

Field	Type	Null	Key	Default	Extra
ID_NUMBER	char(8)	NO	PRI		
START_DATE	date	NO			
EXPIRY	date	NO			
TYPE	char(5)	NO	PRI		
PAYMENT	int(4)	NO			

```
5 rows in set (0.00 sec)
```

```
mysql> desc membership_details;
```

Field	Type	Null	Key	Default	Extra
TYPE	char(5)	NO	PRI		
COST	decimal(8,2)	NO			
DESCRIPTION	char(15)	NO			
PERCENTAGE	int(3)	NO			

```
4 rows in set (0.00 sec)
```

```
mysql> desc session_details;
```

Field	Type	Null	Key	Default	Extra
SESSION_TITLE	char(10)	NO	PRI		
START	date	NO			
END	date	NO			

```
3 rows in set (0.00 sec)
```

2.3 INDEXES

TABLE	INDEX	REASON
member_details	ID_NUMBER	PRIMARY KEY
	LAST_NAME	used frequently in searches
	FIRST_NAME	used frequently in searches
class_details	CLASS_NO	PRIMARY KEY
membership_details	TYPE	PRIMARY KEY
session_details	SESSION_TITLE	PRIMARY KEY
member_membership	ID_NUMBER	PRIMARY KEY
	TYPE	FOREIGN KEY REFERENCE membership_details
member_card_details	ID_NUMBER	PRIMARY KEY
	CARD_NO	PRIMARY KEY
member_class	ID_NUMBER	PRIMARY KEY
	CLASS_NO	PRIMARY KEY
	SESSION_TITLE	PRIMARY KEY
class_session	CLASS_NO	PRIMARY KEY
	SESSION_TITLE	PRIMARY KEY
	INSTRUCTOR	used frequently in searches
Administrator	ADMIN_ID	PRIMARY KEY

2.4 NULL ATTRIBUTES

Table	Attributes	NULL/ NOT NULL	REASON
member_details	ID_NUMBER	NOT NULL	PRIMARY KEY
	PASSWORD	NOT NULL	PRIMARY KEY
	LAST_NAME	NOT NULL	Required information from user
	FIRST_NAME	NOT NULL	Required information from user
	STREET	NOT NULL	Required information from user
	APT_NUM	NOT NULL	Required information from user
	CITY	NOT NULL	Required information from user
	STATE	NOT NULL	Required information from user
	ZIP	NOT NULL	Required information from user
	PHONE	NOT NULL	Required information from user
EMAIL	NOT NULL	Required information from user	
class_details	CLASS_NO	NOT NULL	PRIMARY KEY
	CLASS_DESCRIPTION	NOT NULL	Required information for class
	TITLE	NOT NULL	Required information for class
	BASIC_COST	NOT NULL	Required information for class
membership_details	TYPE	NOT NULL	PRIMARY KEY
	COST	NOT NULL	Required information for membership
	DESCRIPTION	NOT NULL	Required information for membership
	PERCENTAGE	NOT NULL	Required information for membership
session_details	SESSION_TITLE	NOT NULL	PRIMARY KEY
	START	NOT NULL	Required information for session
	END	NOT NULL	Required information for session
member_membership	ID_NUMBER	NOT NULL	PRIMARY KEY
	START_DATE	NOT NULL	Required information for membership register
	EXPIRY	NOT NULL	Required information for membership register
	TYPE	NOT NULL	PRIMARY KEY
	PAYMENT	NOT NULL	Required information for membership register
member_card_details	ID_NUMBER	NOT NULL	PRIMARY KEY
	CARD_NO	NOT NULL	PRIMARY KEY
	CARD_TYPE	NOT NULL	Required information for credit card
	EXPIRY_MON	NOT NULL	Required information for credit card
	EXPIRY_YEAR	NOT NULL	Required information for credit card
CVV	NOT NULL	Required information for credit card	
member_class	ID_NUMBER	NOT NULL	PRIMARY KEY
	CLASS_NO	NOT NULL	PRIMARY KEY
	SESSION_TITLE	NOT NULL	PRIMARY KEY
	REGISTERED	NOT NULL	Required information for class register
	PAYMENT	NOT NULL	Required information for class register
class_session	SESSION_TITLE	NOT NULL	PRIMARY KEY
	CLASS_NO	NOT NULL	PRIMARY KEY
	INSTRUCTOR	NOT NULL	Required information for class
	START	NOT NULL	Required information for class
	TIME	NOT NULL	Required information for class
	CAPACITY	NOT NULL	Required information for class
Administrator	ADMIN_ID	NOT NULL	PRIMARY KEY
	PASSWORD	NOT NULL	Required information for administrator

2.5 INTEGRITY RULES

Domain Integrity: The values of an attribute come from the set of valid values for the attribute.

TABLE	Attribute	Range
member_card_details	CVV	001 to 999
member_details	Zip	00001 - 99999
membership_details	Percentage	0 – 100

Entity integrity: Null attributes are not allowed in PRIMARY KEY and all entries in the primary_key attribute has to be unique. So, that each entity will have a unique identity.

All the primary keys like ID_NUMBER, CLASS_NO, SESSION_TITLE, TYPE ETC., in our database can't be null.

Referential integrity: A foreign key value can be null or it can contain an entry that matches a primary key value in the table to which it is related.

We have ID_NUMBER in member_details table which matches with the ID_number in member_membership, member_card_details and member_class.

Similarly we have CLASS_NO in the class_details table which matches with the CLASS_NO in member_class and class_session table.

Similarly we have SESSION_TITLE in the session_details table which matches with the SESSION_TITLE in member_class and class_session table.

You cannot have an entity which matches an entity in another relation by means of a null value.

Referential integrity is optional, but if requested, enforcement is automatic. It makes coding simple and limits the risk of unmatched data. It is usually declared as part of the table definition by specifying a foreign key.

Thus, in this way integrity rules apply to our database.

3 Project Requirements

3.1 Software Requirements

Operating system – windows 10

Back end of Project (Database) – My SQL server

Front end of the project – PHP

For running front end and back end – XAMPP control panel v3.2.1

For writing PHP code – Brackets

3.2 Security for Database

Security is the prevention of unidentified access to the data base. All the users whether a Member or an Administrator has to authenticate themselves by providing their ID and Password before logging onto the system.

The Administrator has the rights to modify the data present in the database. He has the rights to add or remove a Class, Session or Membership details from the database.

3.3 Access of Tables

Member can view and change his/her own data in member_details , member_card_details, member_membership, and member_class .

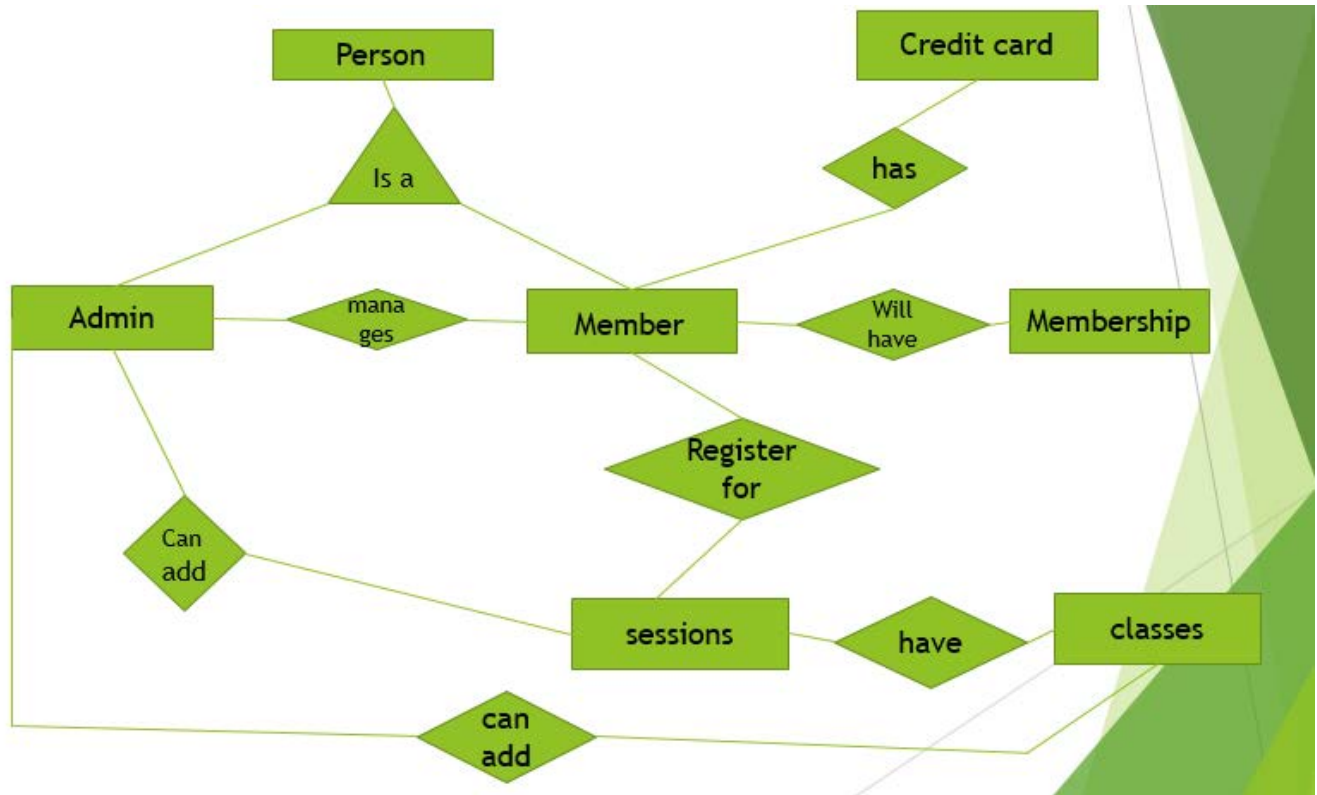
Member can view the class_details , session_details, membership_details and class_session.

Administrator can view and change class_details , session_details, membership_details and class_session.

Administrator can view TABLE- member_details, TABLE- member_membership, and TABLE- member_class.

4 Project Design Description

4.1 E-R Diagram:



4.2 CREATING TABLE:

Administration:

```
MariaDB [gsufc]> show create table administrator \G
..... 1. row .....
      Table: administrator
Create Table: CREATE TABLE `administrator` (
  `ADMIN_ID` char(10) NOT NULL,
  `PASSWORD` char(10) NOT NULL,
  PRIMARY KEY (`ADMIN_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)
```

Class_details:

```
MariaDB [gsufc]> show create table class_details \G
***** 1. row *****
      Table: class_details
Create Table: CREATE TABLE `class_details` (
  `CLASS_NO` int(5) NOT NULL,
  `CLASS_DESCRIPTION` char(50) DEFAULT NULL,
  `TITLE` char(15) NOT NULL,
  `BASIC_COST` decimal(6,2) NOT NULL,
  PRIMARY KEY (`CLASS_NO`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)

MariaDB [gsufc]>
```

Class_sessions:

```
MariaDB [gsufc]> show create table class_session \G
***** 1. row *****
      Table: class_session
Create Table: CREATE TABLE `class_session` (
  `SESSION_TITLE` char(10) NOT NULL,
  `CLASS_NO` int(5) NOT NULL DEFAULT '0',
  `INSTRUCTOR` char(15) NOT NULL,
  `START` date NOT NULL,
  `TIME` char(20) DEFAULT NULL,
  `CAPACITY` int(3) NOT NULL,
  PRIMARY KEY (`SESSION_TITLE`,`CLASS_NO`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)

MariaDB [gsufc]>
```

Member_cards_details:

```
MariaDB [gsufc]> show create table member_card_details \G
***** 1. row *****
      Table: member_card_details
Create Table: CREATE TABLE `member_card_details` (
  `ID_NUMBER` char(8) NOT NULL,
  `CARD_NO` char(16) NOT NULL,
  `CARD_TYPE` char(20) NOT NULL,
  `EXPIRY_MON` char(2) NOT NULL,
  `EXPIRY_YEAR` char(4) NOT NULL,
  `CVV` int(3) NOT NULL,
  PRIMARY KEY (`ID_NUMBER`,`CARD_NO`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)

MariaDB [gsufc]>
```

Member_class:

```
MariaDB [gsufc]> show create table member_class \G
***** 1. row *****
      Table: member_class
Create Table: CREATE TABLE `member_class` (
  `ID_NUMBER` char(8) NOT NULL,
  `CLASS_NO` int(5) NOT NULL DEFAULT '0',
  `SESSION_TITLE` char(10) NOT NULL,
  `REGISTERED` date NOT NULL,
  `PAYMENT` char(1) NOT NULL,
  PRIMARY KEY (`ID_NUMBER`,`CLASS_NO`,`SESSION_TITLE`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)

MariaDB [gsufc]>
```


Member_details:

```
MariaDB [gsufc]> show create table member_details \G
***** 1. row *****
      Table: member_details
Create Table: CREATE TABLE `member_details` (
  `ID_NUMBER` char(8) NOT NULL,
  `PASSWORD` char(8) NOT NULL,
  `LAST_NAME` char(15) NOT NULL,
  `FIRST_NAME` char(15) NOT NULL,
  `STREET` char(15) NOT NULL,
  `APT_NUM` char(5) NOT NULL,
  `CITY` char(15) NOT NULL,
  `STATE` char(2) NOT NULL,
  `ZIP` char(5) NOT NULL,
  `PHONE` char(10) NOT NULL,
  `EMAIL` char(15) NOT NULL,
  PRIMARY KEY (`ID_NUMBER`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)
```

Member_membership:

```
MariaDB [gsufc]> show create table member_membership \G
***** 1. row *****
      Table: member_membership
Create Table: CREATE TABLE `member_membership` (
  `ID_NUMBER` char(8) NOT NULL,
  `START_DATE` date NOT NULL,
  `EXPIRY` date NOT NULL,
  `TYPE` char(15) NOT NULL DEFAULT '',
  `PAYMENT` int(4) NOT NULL,
  PRIMARY KEY (`ID_NUMBER`,`TYPE`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)
```

Membership_details:

```
MariaDB [gsufc]> show create table membership_details \G
***** 1. row *****
      Table: membership_details
Create Table: CREATE TABLE `membership_details` (
  `TYPE` char(10) NOT NULL,
  `COST` decimal(8,2) NOT NULL,
  `DESCRIPTION` char(15) NOT NULL,
  `PERCENTAGE` int(3) NOT NULL,
  PRIMARY KEY (`TYPE`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)
```

Session_details:

```
MariaDB [gsufc]> show create table session_details \G
***** 1. row *****
      Table: session_details
Create Table: CREATE TABLE `session_details` (
  `SESSION_TITLE` char(10) NOT NULL,
  `START` date NOT NULL,
  `END` date NOT NULL,
  PRIMARY KEY (`SESSION_TITLE`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)
```

5 Internal/external Interface Impacts and Specification

5.1 Database Content

Tables:

```
MariaDB [gsufc]> show tables;
+-----+
| Tables_in_gsufc |
+-----+
| administrator   |
| class_details   |
| class_session   |
| member_card_details |
| member_class    |
| member_details  |
| member_membership |
| membership_details |
| session_details |
+-----+
9 rows in set (0.00 sec)
```

Administrator:

```
MariaDB [gsufc]> select * from administrator;
+-----+-----+
| ADMIN_ID | PASSWORD |
+-----+-----+
| admin    | admin    |
+-----+-----+
1 row in set (0.00 sec)
```

Class_details:

```
MariaDB [gsufc]> select * from class_details;
```

CLASS_NO	CLASS_DESCRIPTION	TITLE	BASIC_COST
1	For Exercise	Tennis	300.00
2	For stress relief	Yoga	300.00
3	For Swimming	Swimming	400.00
4	For Dance	Ultimate Abs	300.00
5	For Youth	Martial arts	200.00
6	For Youth	Dance Fitness	300.00
7	For Fitness	Cardio	200.00
8	For Exercise	Pure Strength	300.00
9	For Fitness	Zumba	150.00

9 rows in set (0.00 sec)

Class_session:

```
MariaDB [gsufc]> select * from class_session;
```

SESSION_TITLE	CLASS_NO	INSTRUCTOR	START	TIME	CAPACITY
Spring2016	1	Chan	2016-01-01	18:00 - 19:00	20
Spring2016	2	Rachel Mann	2016-01-01	07:00 - 08:00	20
Spring2016	3	Jim Dockett	2016-01-01	09:00 - 10:00	20
Spring2016	8	John Dockett	2016-01-01	14:00 - 15:00	20
Summer2016	1	Chan	2016-06-01	17:00 - 18:00	10
Summer2016	2	Rachel Mann	2016-06-05	07:00 - 08:00	5
Summer2016	9	john adams	2016-05-13	19:00 - 20:00	50

7 rows in set (0.00 sec)

Member_card_details:

```
MariaDB [gsufc]> select * from member_card_details;
```

ID_NUMBER	CARD_NO	CARD_TYPE	EXPIRY_MON	EXPIRY_YEAR	CVV
ajay	1234123456785678	Mastercard	06	2018	122
ashok	12	Visa	01	2016	0
ashray	4111111111111111	Amex	01	2017	345
kalyani	4242424242424242	Visa	04	2019	222
mtn_test	4111111111111111	Visa	03	2017	333
sandeep	1234567812345678	Mastercard	01	2020	222
surya	1456214525642589	Mastercard	07	2019	155

7 rows in set (0.00 sec)

Member_class:

```
MariaDB [gsufc]> select * from member_class;
```

ID_NUMBER	CLASS_NO	SESSION_TITLE	REGISTERED	PAYMENT
ajay	9	Summer2016	2016-05-03	Y
ashray	1	Spring2016	2016-05-02	Y
ashray	2	Spring2016	2016-05-02	Y
ashray	8	Spring2016	2016-05-02	Y
kalyani	1	Spring2016	2016-04-28	Y
kalyani	2	Spring2016	2016-05-01	Y
kalyani	3	Spring2016	2016-05-02	Y
sandeep	2	Summer2016	2016-05-03	Y
surya	2	Summer2016	2016-05-02	Y

```
9 rows in set (0.00 sec)
```

Member_details:

```
MariaDB [gsufc]> select * from member_details;
```

ID_NUMBER	PASSWORD	LAST_NAME	FIRST_NAME	STREET	APT_NUM	CITY	STATE	ZIP	PHONE	EMAIL
ajay	ajay	kumar	ajay	nhjcn	22	Chicago	IL	60607	5624785228	ajay@gmail.com
ashok	ashok	bhatraju	ashok	hvj	2,	chicago	IL	60607	6456548975	ashok@gmail.com
ashray	ashray	korvi	Ashray	123	Test	Test	IL	60607	1234567890	test@test.com
kalyani	kalyani	Bh	Kalyani	123 Electric av	705	Chicago	IL	60601	4124125678	k.bh@gmail.com
mtn_test	mtn_test	mtn_test	mtn_test	Test	Test	Test	IL	60601	1234567890	test@test.com
sandeep	sandeep	gopal	sandeep	halsted	2b	Chicago	IL	60607	2583691479	sgopal@gmail.co
surya	surya	cherala	surya	steger road	511	Chicago	IL	60607	8987564896	scherala@studen
uday	uday	aradhyula	uday	halsted	2b	chicago			8155085864	uday@gmail.com

```
9 rows in set (0.00 sec)
```

Member_membership:

```
MariaDB [gsufc]> select * from member_membership;
```

ID_NUMBER	START_DATE	EXPIRY	TYPE	PAYMENT
ajay	2016-05-03	2017-05-03	Gold	350
ashok	2016-05-03	2017-05-03	Gold	350
ashray	2016-05-02	2017-05-02	Gold	350
kalyani	2016-04-25	2017-04-25	Gold	350
mtn_test	2016-04-27	2017-04-27	Premium	350
sandeep	2016-05-03	2017-05-03	Basic	350
surya	2016-05-02	2017-05-02	Premium	350

```
7 rows in set (0.00 sec)
```

Membership_details:

```
MariaDB [gsufc]> select * from membership_details;
+-----+-----+-----+-----+
| TYPE   | COST  | DESCRIPTION | PERCENTAGE |
+-----+-----+-----+-----+
| Basic  | 200.00 | Basic Features | 20 |
| Gold   | 250.00 | Semi Features | 40 |
| Premium | 350.00 | Full Features | 50 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Session_details:

```
MariaDB [gsufc]> select * from session_details;
+-----+-----+-----+
| SESSION_TITLE | START      | END      |
+-----+-----+-----+
| Spring2016    | 2016-01-18 | 2016-05-04 |
| Summer2016   | 2016-05-18 | 2016-08-07 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

5.2 STORED PROCEDURES:

5.2.1 Membership:

```
MariaDB [gsufc]> show create procedure GetMembersByMembership \G
+-----+-----+-----+
| Procedure: GetMembersByMembership |
| sql_mode:                          |
| Create Procedure: CREATE DEFINER=`root`@`localhost` PROCEDURE `GetMembersByMembership`(IN membership_type VARCHAR(255)) |
+-----+-----+-----+
BEGIN
  SELECT * FROM member_membership
  WHERE TYPE = membership_type;
END
character_set_client: utf8mb4
collation_connection: utf8mb4_unicode_ci
Database Collation: latin1_swedish_ci
1 row in set (0.00 sec)
```

5.2.2 Class_details:

```
MariaDB [gsufc]> show create procedure Getallclasses \G
***** 1. row *****
      Procedure: Getallclasses
      sql_mode:
      Create Procedure: CREATE DEFINER='root'@'localhost' PROCEDURE `Getallclasses`()
BEGIN
  SELECT * FROM class_details;
  END
character_set_client: utf8mb4
collation_connection: utf8mb4_unicode_ci
  Database Collation: latin1_swedish_ci
1 row in set (0.00 sec)

MariaDB [gsufc]>
```

5.2.3 CALLING STORED PROCEDURE:

(i) Calling Membership:

```
MariaDB [gsufc]> CALL Getmembersbymembership('premium');
+-----+-----+-----+-----+-----+
| ID_NUMBER | START_DATE | EXPIRY   | TYPE   | PAYMENT |
+-----+-----+-----+-----+-----+
| mtm_test  | 2016-04-27 | 2017-04-27 | Premium | 350     |
| surya     | 2016-05-02 | 2017-05-02 | Premium | 350     |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

MariaDB [gsufc]> CALL Getmembersbymembership('gold');
+-----+-----+-----+-----+-----+
| ID_NUMBER | START_DATE | EXPIRY   | TYPE   | PAYMENT |
+-----+-----+-----+-----+-----+
| ajay      | 2016-05-03 | 2017-05-03 | Gold   | 350     |
| ashok     | 2016-05-03 | 2017-05-03 | Gold   | 350     |
| ashray    | 2016-05-02 | 2017-05-02 | Gold   | 350     |
| kalyani   | 2016-04-25 | 2017-04-25 | Gold   | 350     |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

Query OK, 0 rows affected (0.02 sec)

MariaDB [gsufc]> CALL Getmembersbymembership('basic');
+-----+-----+-----+-----+-----+
| ID_NUMBER | START_DATE | EXPIRY   | TYPE   | PAYMENT |
+-----+-----+-----+-----+-----+
| sandeep   | 2016-05-03 | 2017-05-03 | Basic  | 350     |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.02 sec)
```

(ii) Calling Classes:

```
MariaDB [gsufc]> CALL GetAllClasses();
```

CLASS_NO	CLASS_DESCRIPTION	TITLE	BASIC_COST
1	For Exercise	Tennis	300.00
2	For stress relief	Yoga	300.00
3	For Swimming	Swimming	400.00
4	For Dance	Ultimate Abs	300.00
5	For Youth	Martial arts	200.00
6	For Youth	Dance Fitness	300.00
7	For Fitness	Cardio	200.00
8	For Exercise	Pure Strength	300.00
9	For Fitness	Zumba	150.00

```
9 rows in set (0.00 sec)  
Query OK, 0 rows affected (0.01 sec)
```

6 Design Units Impacts

6.1 Home Page:

GSUFC Home Membership Registration Classes New Users Admin Login Login

GROUP EXERCISE AND FITNESS CLASSES

“reach your goals”

GSUFC is a workout center providing advanced equipment making your workout fun and exciting.

Various classes are designed to meet the requirements for people of all ages.

So Join, Workout and Be Fit!!!

6.2 MemberShip page:

GSUFC Home Membership Registration Classes New Users Admin Login Login

Different types of memberships are available and the class cost varies according to the membership.

	Discount Rate	Membership cost/year	Description
Basic	20	200.00	Basic Features
Gold	40	250.00	Semi Features
Premium	50	350.00	Full Features

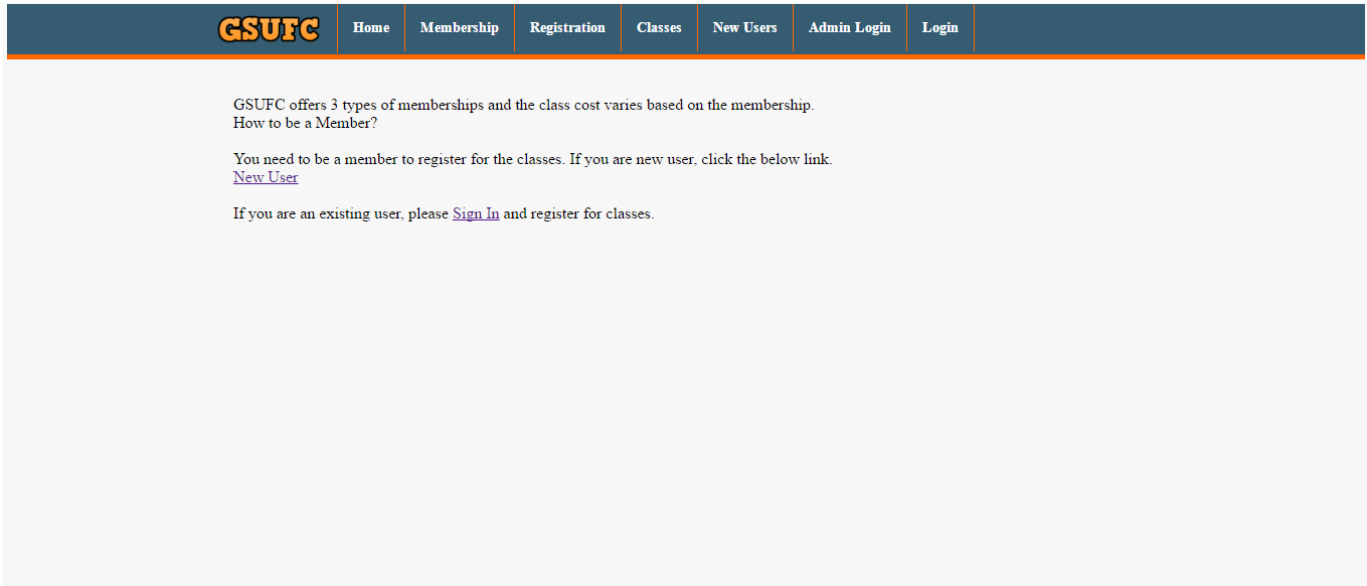
6.3 Classes Page:

GSUFC Home Membership Registration Classes New Users Admin Login Login

Classes offered are :

- Tennis
- Yoga
- Swimming
- Ultimate Abs
- Dance Fitness
- Martial Arts
- Cardio
- Pure Strength
- Zumba
- Pilates

6.4 Registration Page:



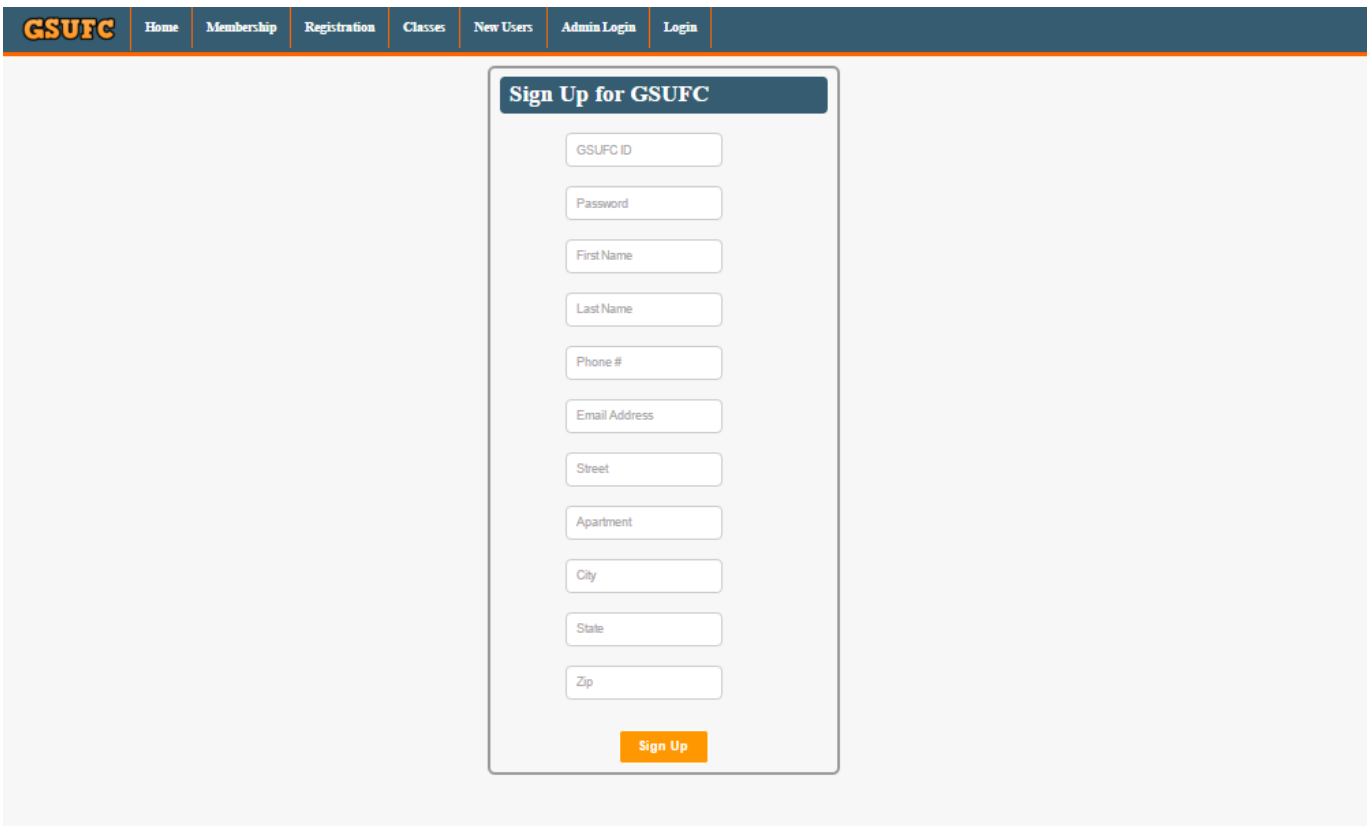
The screenshot shows the top navigation bar of the GSUFC website with the following links: Home, Membership, Registration, Classes, New Users, Admin Login, and Login. The main content area contains the following text:

GSUFC offers 3 types of memberships and the class cost varies based on the membership. How to be a Member?

You need to be a member to register for the classes. If you are new user, click the below link. [New User](#)

If you are an existing user, please [Sign In](#) and register for classes.

6.5 New User Signin Page:



The screenshot shows the top navigation bar of the GSUFC website with the following links: Home, Membership, Registration, Classes, New Users, Admin Login, and Login. The main content area features a "Sign Up for GSUFC" form with the following fields:

- GSUFC ID
- Password
- First Name
- Last Name
- Phone #
- Email Address
- Street
- Apartment
- City
- State
- Zip

At the bottom of the form is a "Sign Up" button.

6.6 Admin Login Page:

GSUFC	Home	Membership	Registration	Classes	New Users	Admin Login	Login
--------------	------	------------	--------------	---------	-----------	-------------	-------

Please enter the Admin ID and password.

Admin ID :

Password :

6.7 Members Login Page:

GSUFC	Home	Membership	Registration	Classes	New Users	Admin Login	Login
--------------	------	------------	--------------	---------	-----------	-------------	-------

Please enter your ID and password.

GSUFC ID :

Password :

6.8 Member Home page:

GSUFC Home Membership Registration Classes New Users Admin Login Login [Logout](#)

Welcome kalyani

Gold Member through 2017-04-25

Spring2016 ▾

Classes available :

TITLE	CLASS DESC	COST	SESSION	TUTOR	START DATE	TIME
Tennis	For Exercise	\$300.00	Spring2016	Chan	2016-01-01	18:00 - 19:00
Yoga	For stress relief	\$300.00	Spring2016	Rachel Mann	2016-01-01	07:00 - 08:00
Swimming	For Swimming	\$400.00	Spring2016	Jim Dockett	2016-01-01	09:00 - 10:00
Pure Strength	For Exercise	\$300.00	Spring2016	John Dockett	2016-01-01	14:00 - 15:00

Select a Class

Pure Strength ▾ **add**

View Registered Classes

6.9 Registered classes Page:

GSUFC Home Membership Registration Classes New Users Admin Login Login [Logout](#)

Classes Registered:

Title	Instructor	Time
Tennis	Chan	18:00 - 19:00
Yoga	Rachel Mann	07:00 - 08:00
Swimming	Jim Dockett	09:00 - 10:00
Pure Strength	John Dockett	14:00 - 15:00

6.10 Payment Page:

GSUFC Home Membership Registration Classes New Users Admin Login Login [Logout](#)

Basic cost for *Pure Strength* is \$300.00

As you are having a *Gold* Membership, you have to pay \$180

Payment Details
Pay using card ending with:4242

Pay

7 FUTURE ENHANCEMENTS

The future enhancements for this project are –

1. The Member can be able to edit the card details, if he wants to make the payment using different card other than the existing registered card.
2. The Admin can be able to edit and delete the sessions apart from viewing and adding the session.
3. The Admin can be able to edit and delete the classes apart from viewing and adding the classes.
4. The Admin can be able to edit and delete the memberships apart from viewing and adding the memberships.

8 Acknowledgements

The team is very thankful to professor **Do Young Park** and **Dr. Soon.Ok.Park** for the support and leading us towards the right path in achieving the project to be a success. The team has been very supportive throughout, with their ideas and hard work for creating the GSUFC as a web application.

9 References

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