

Governors state University Fitness Center

Professor
S Park

BY

Surya Teja Cherala



Kalyani Bhatraju



Aashray Kovi



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.

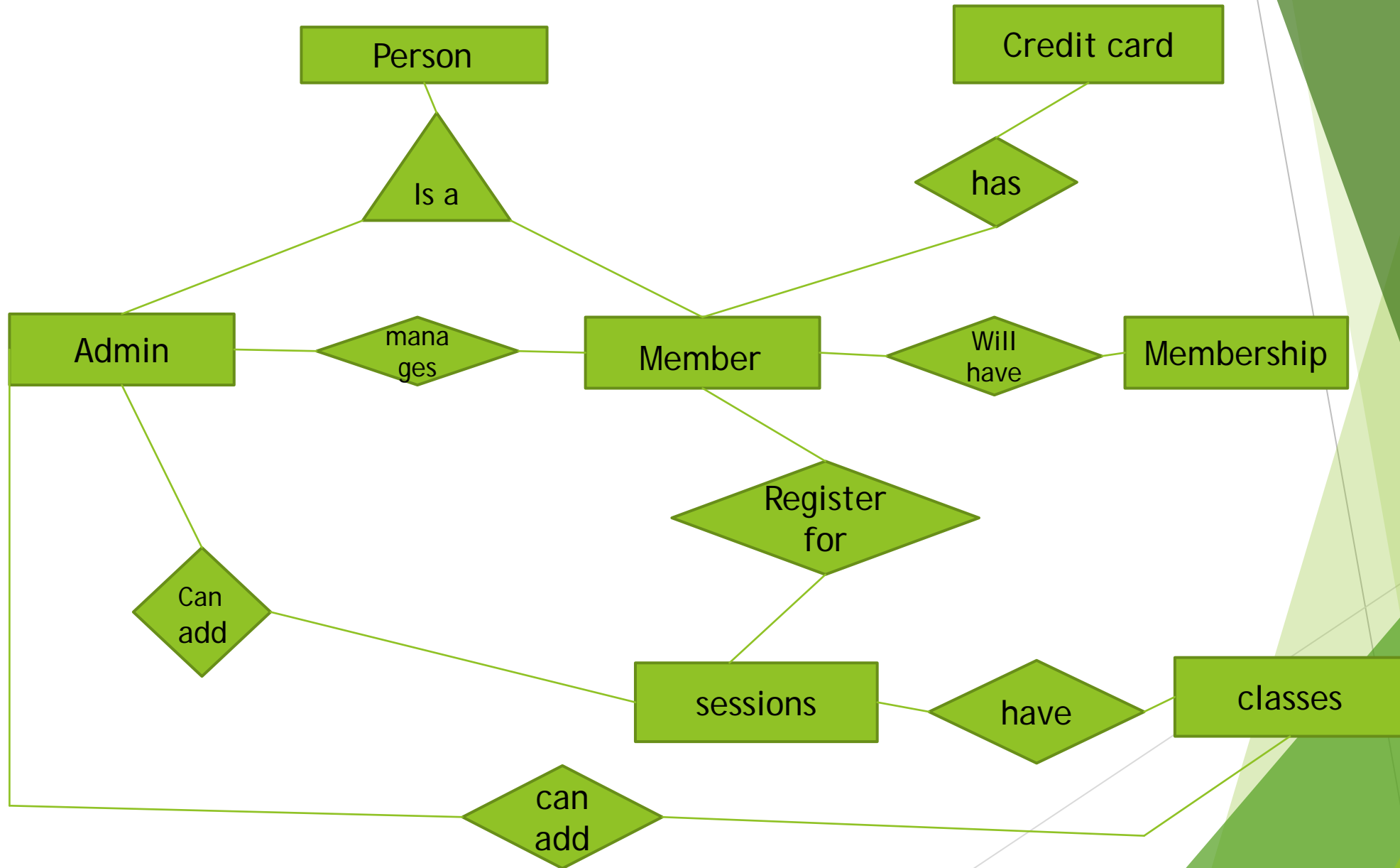
The web application provides different types of memberships and the user can select a specific membership and get registered for the Fitness Center. The Fitness Center offers different classes and the cost of each class for the user depends on the membership purchased by user. User can view the classes 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

REQUIREMENTS OF THE SYSTEM:

- The system shall allow the users to view membership types and cost for each type of membership.
- The system shall enroll a new member.
- The system shall renew membership .
- The system shall login the registered user.
- The system shall display the classes available for the session.
- The system shall provide the directions on how to register for the classes.
- The system allow the user to register for a class.
- The system shall allow the user to check whether a class is full or open.
- The system shall allow the administrator to add/alter/delete information for members.
- The system shall allow the user to search for classes by various criteria.

ER Diagram:



ENTITIES:

MEMBER_DETAILS

CLASS_DETAILS

MEMBERSHIP_DETAILS

SESSION_DETAILS

MEMBER_MEMBERSHIP

MEMBER_CARD_DETAILS

MEMBER_CLASS

CLASS_SESSION

ADMINISTRATOR

DESCRIPTION OF THE RELATIONAL DATABASE:

```
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)
```

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

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

Table	Attributes	NULL/ NOT NULL	REASON
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

MAIN 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!!

MEMBERSHIP PAGE:

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

REGISTRATION PAGE:

GSUFC

[Home](#)

[Membership](#)

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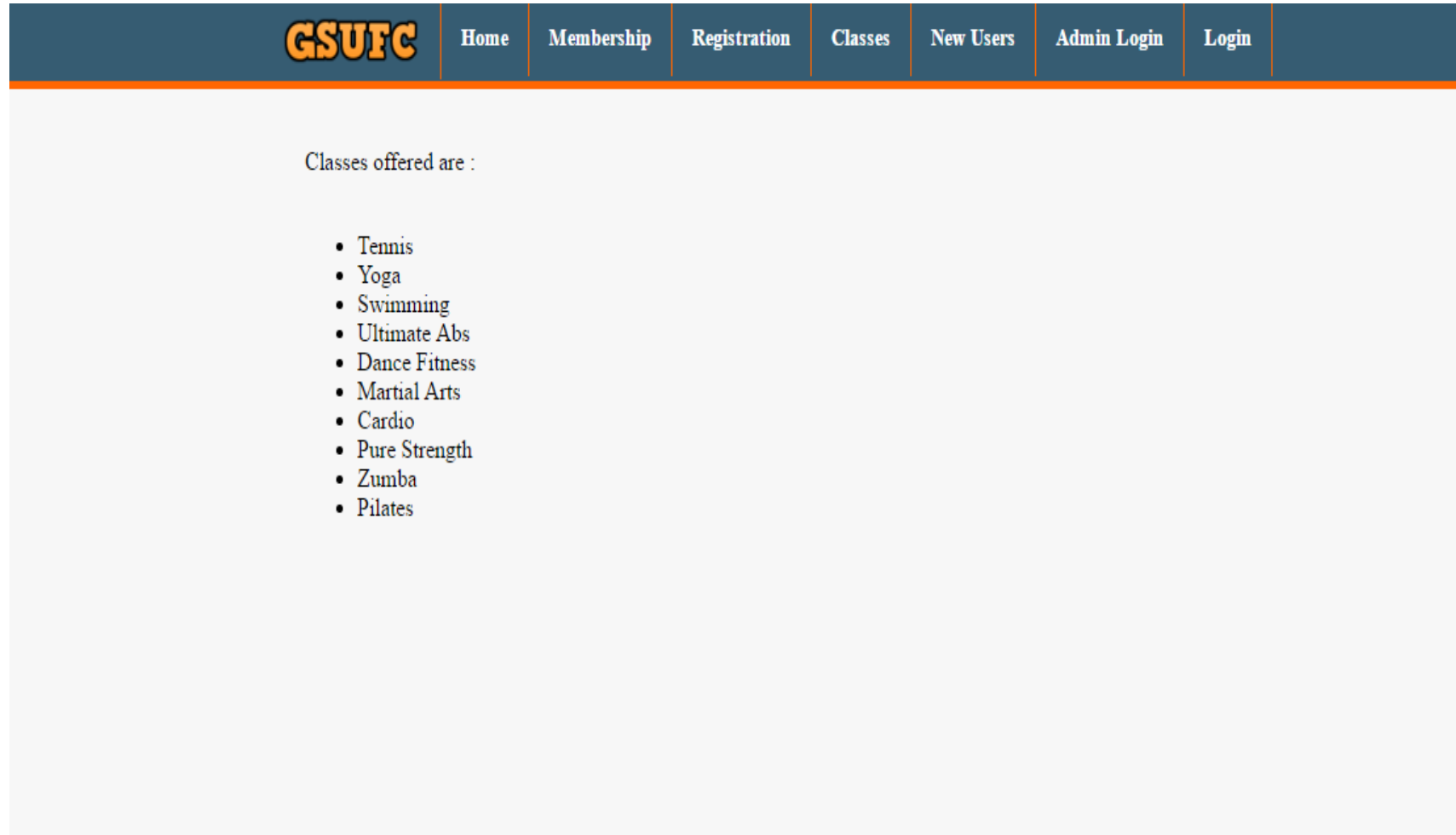
[Login](#)

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.

CLASSES PAGE:



GSUFC Home Membership Registration Classes New Users Admin Login Login

Classes offered are :

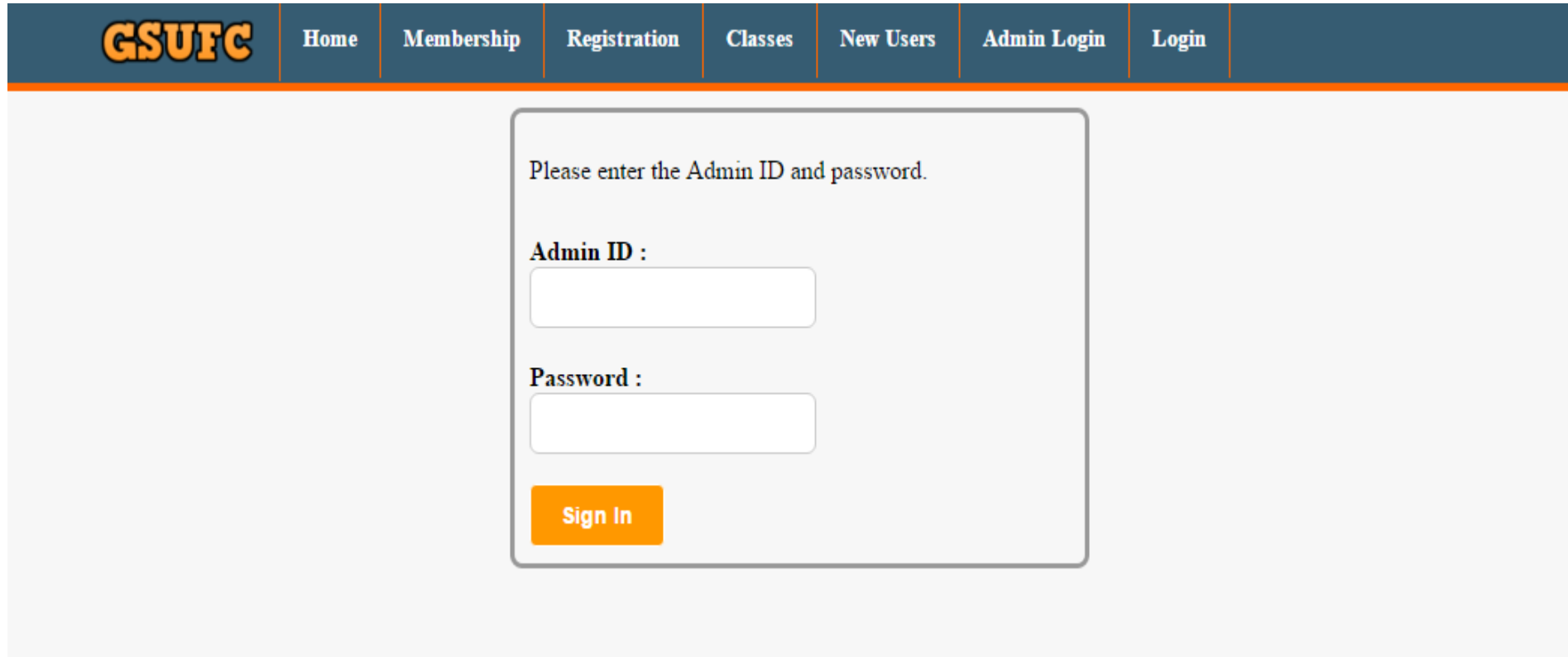
- Tennis
- Yoga
- Swimming
- Ultimate Abs
- Dance Fitness
- Martial Arts
- Cardio
- Pure Strength
- Zumba
- Pilates

NEW USER SIGNIN PAGE:

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

Sign Up for GSUFC

ADMIN LOGIN PAGE:



The image shows a screenshot of the Admin Login page for GSUFC. The page features a dark blue navigation bar at the top with the GSUFC logo and several menu items. Below the navigation bar is a light gray main content area containing a login form. The form is enclosed in a rounded rectangle and includes a prompt to enter Admin ID and password, two input fields, and a 'Sign In' button.

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

Please enter the Admin ID and password.

Admin ID :

Password :

Sign In

MEMBER LOGIN PAGE:

GSUFC	Home	Membership	Registration	Classes	New Users	Admin Login	Login
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Please enter your ID and password.

GSUFC ID :

Password :

Sign In

THANK YOU ALL