

MeetUp

Database class project 2021/2022

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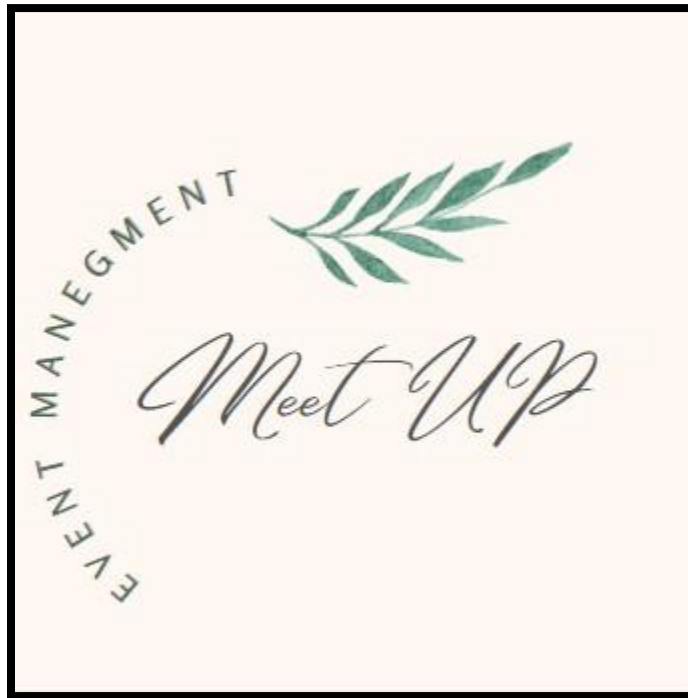
Date/time

-----This section is intended for the Instructor-----

Topic	Mark
Project Requirements and Modeling	
Correctness of Database mapping	
Functional Dependency and Normalization	
Project Tools	
Project Discussion	
Project Completeness	
Project Output Results or reporting (JasperReport, charts, graphs, etc.)	
Project Administration and Management	
Project Report	
Project Idea	
Project Complexity	
Team work	

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Abstract :

In this project , We build the 'MeetUp' which is an application to Organize An-Najah National University Associations events so that both Students and Associations can Manage them easily and from one place . MeetUp would be with Users from viewing the event till joining and giving Feedback .For the Association ,it would handle the process of advertising for event till managing and receiving many things about it .This project uses Javafx and oracle sql database .

Introduction :

We heard a lot of our colleagues complaining about not knowing about an event that they're interested in , or forgetting about it . We thought about how things would be to have all of our university Association events in one place ?

With the increasing number of events done at different topics , and most of them are posted in social media where they could be missed or simply forgotten about , collecting all these events in one place and controlling all things about them without the distraction that social media does seems to be very helpful and time saving.

MeetUp is the solution that we found . The system has many services for two main types of people , the organizations at An-najah National University and the people (specially students) who are interested in joining events and get acknowledgement from them . As an organization , MeetUp will give you a better advertisement for your events as attendants can see them in one place and see how people react with them . It also gives you the chance to see the history of all your added events and their details .As a person who wants to attend events, it's the place where you can see different types of events from different organizations and register to what you want . You will be able to give your opinion about the event secretly and vote for it if you want . Moreover , Registration will give you the ability to see all registered events so you will not forget about them any more .

Project Requirements:

There are many events done by An-najah national university associations(both online and virtual) so this is an Event management database that keeps track of all these events so every user(specially student) could find and attend to interesting events and save time searching for them . The MeetUp system has only one admin who can accept the Association request to join the application .The **admin** has an **Email** and **password** and uses them to sign in . Admin can see reports about the organization , events and users as pdf files . He also can view a table about the registered organizations in the application .On the other hand , MeetUp gives the chance to register and sign in as a normal user or as an organization .

Each **Organization** has

Org_name ,**Manager_name**,**Org_email**,**Org_phone**,**Org_description** and a **unique id** given by the system . Organization also has Accepted property which is controlled by the admin . If Admin doesn't accept him yet , the Organization will not be able to sign in to his account . The Organization can create many events.For each one , the Organization can receive the likes , Feedbacks, Registered users count. He can also view his events . Moreover, Each organization can view his profile , edit information and delete the account .

For each **event** , it has :

event_name,**event_location**,**_event_Capacity**,**event_date**,**start_time**,**end_time**,**event_description**,**Organizer_id**,**event_price** and **event_Status**.It also has a **unique id** given by the system .Each Event are added by organizer and viewed by any user. For each event , likes , registration could be viewed.

Each **user** has **First_name**,**last_name**,**user_email**,**user_phone**,**gender**,**college** and **usr_password**.System also gives a **unique id** for each user . Users see in default the top events in the application .On the other hand , users can view any event added by organizer , make like , register .He can make feedback that is seen by organizer of the event only if he register to that event . Users can also view his profile , edit and delete it . Users will have the ability to view all events that he registered in and their details

Every **location** represents a place inside An-najah National University , so it has a unique number used as **ID** and a **place_name** .

Functional dependencies:

- tbl_admin=(Admin_pass, admin_email)

Admin_pass \rightarrow admin_email also the vice versa is true (admin_email \rightarrow admin_pass) as it's one to one .

- tbl_event=(event_id,event_name,organizer_id,event_capacity,price,event_desc,event_date,status,event_location,start_time,even_time)

event_id \rightarrow (event_name,organizer_id,event_capacity,price,event_desc,event_date,status,event_location,start_time,end_time).

- org_tbl=(org_id,org_name,manager_name,org_phone,org_email,org_password,org_desc,accepted)

org_id \rightarrow org_name,manager_name,org_phone,org_email,org_password,org_desc,accepted

- tbl_place=(place_id,place_name)

place_id \rightarrow place_name and vice versa (place_name \rightarrow place_id) (one to one)

from the register relation and making feedback we have registration table
tbl_place=(place_id,place_name)

- Registration=(event_idd,user_idd,feedback)

(event_idd)(user_idd) \rightarrow feedback

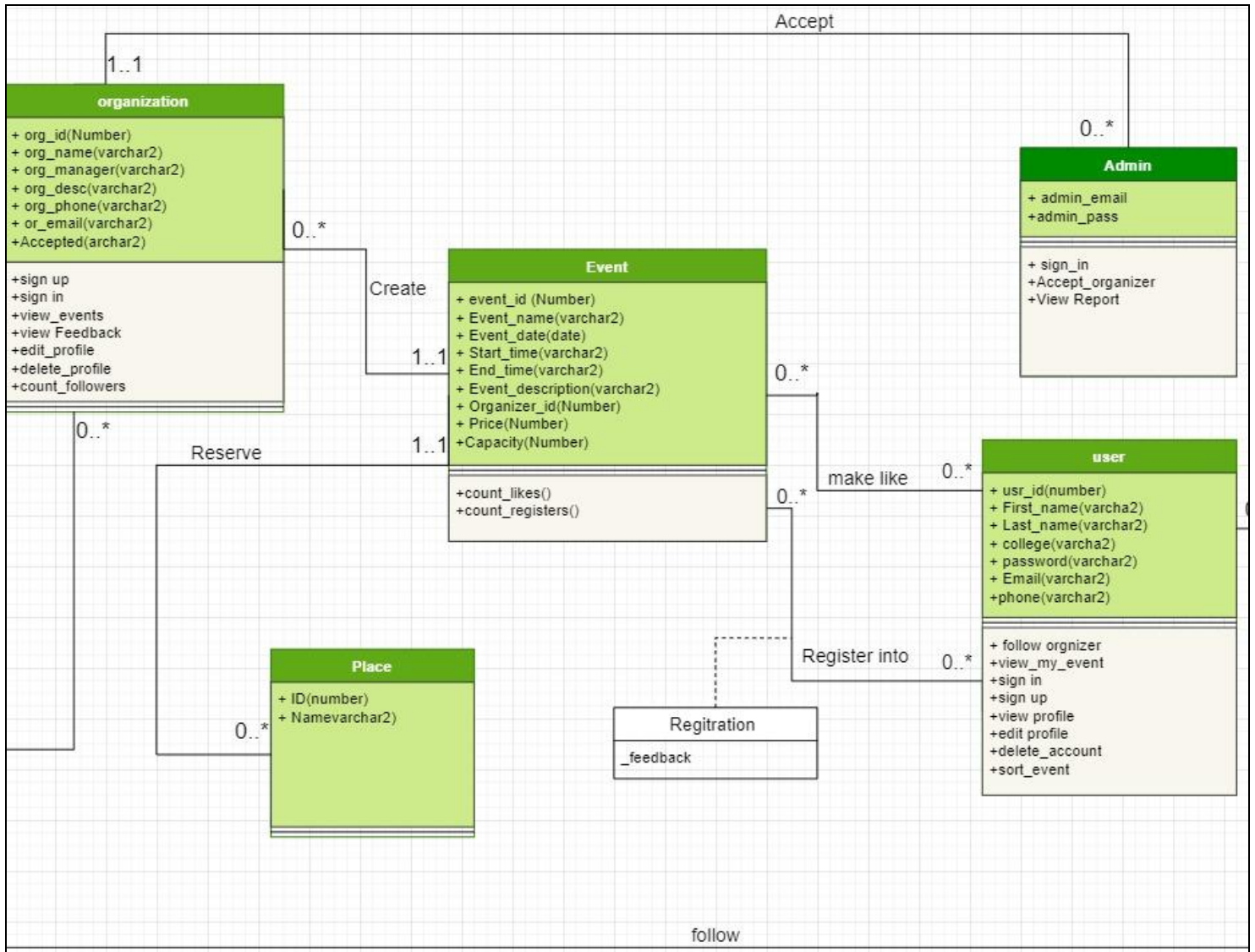
- tbl_user=(user_id,F_name,l_name,phone,email,collge,gender)

user_idd \rightarrow (F_name,l_name,phone,email,collge,gender)

we also have the like relation table and the follow relation table , but we didn't allow the duplication of data in them

- likee=(euser_dd,event_idd) no duplication allowed .
- Follow(user_idd,orgnizer_id) no duplication allowed.

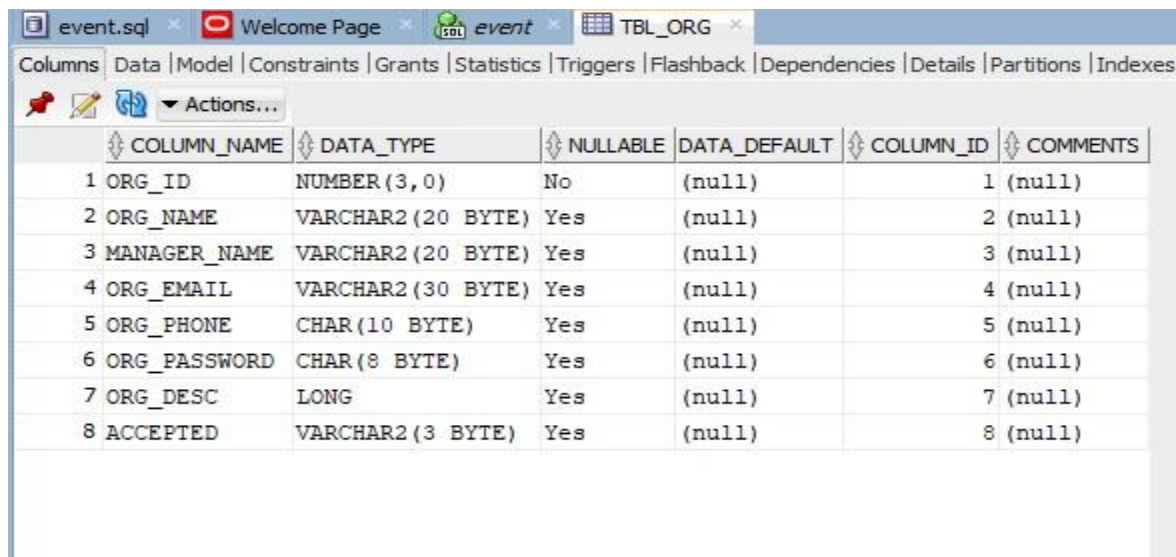
UML DIAGRAM:



Database Details:

In this part we will show our tables in the database, our database contains 11 different tables. 5 tables of them are for the main entities of our project, 3 tables games from the relationship multi to multi between entities and 3 tables we created to specify some attributes values so these attributes are foreign keys for these tables and don't take any other values.

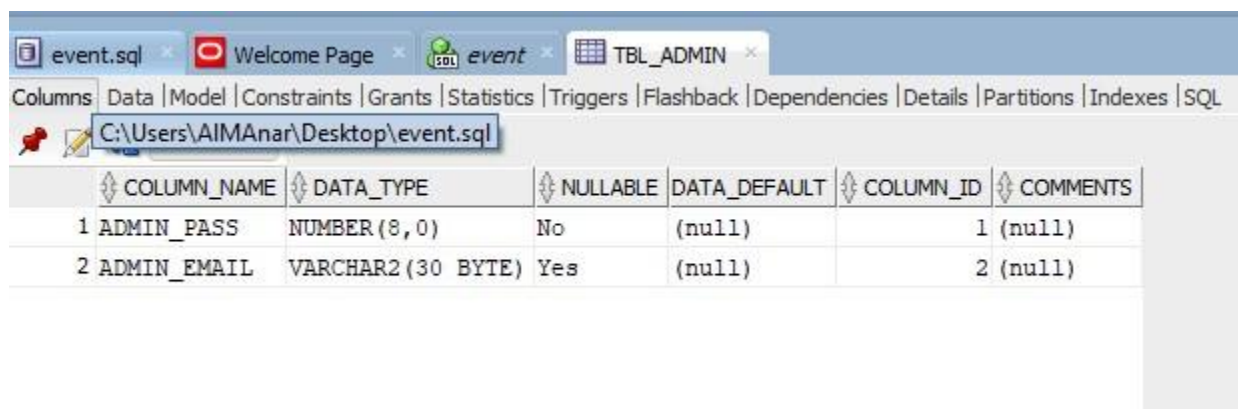
- Organizer table and its attributes :



The screenshot shows the SQL Developer interface with the 'TBL_ORG' table selected. The 'Columns' tab is active, displaying the table's structure. The table has 8 columns: ORG_ID, ORG_NAME, MANAGER_NAME, ORG_EMAIL, ORG_PHONE, ORG_PASSWORD, ORG_DESC, and ACCEPTED. Each column is listed with its data type, nullability, default value, column ID, and comments.

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	ORG_ID	NUMBER(3,0)	No	(null)	1	(null)
2	ORG_NAME	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3	MANAGER_NAME	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)
4	ORG_EMAIL	VARCHAR2(30 BYTE)	Yes	(null)	4	(null)
5	ORG_PHONE	CHAR(10 BYTE)	Yes	(null)	5	(null)
6	ORG_PASSWORD	CHAR(8 BYTE)	Yes	(null)	6	(null)
7	ORG_DESC	LONG	Yes	(null)	7	(null)
8	ACCEPTED	VARCHAR2(3 BYTE)	Yes	(null)	8	(null)

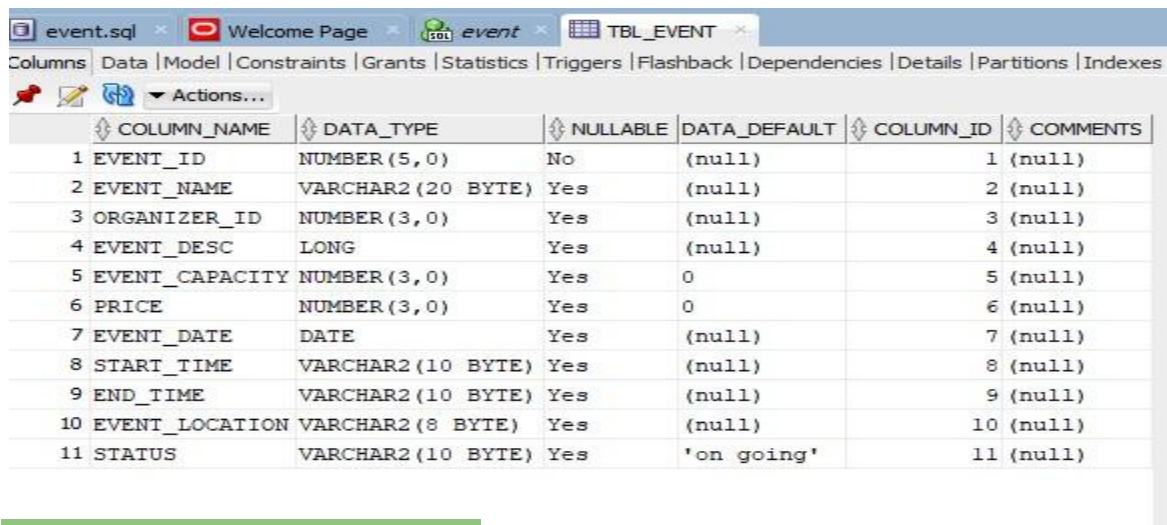
- Admin table and its attributes:



The screenshot shows the SQL Developer interface with the 'TBL_ADMIN' table selected. The 'Columns' tab is active, displaying the table's structure. The table has 2 columns: ADMIN_PASS and ADMIN_EMAIL. Each column is listed with its data type, nullability, default value, column ID, and comments.

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	ADMIN_PASS	NUMBER(8,0)	No	(null)	1	(null)
2	ADMIN_EMAIL	VARCHAR2(30 BYTE)	Yes	(null)	2	(null)

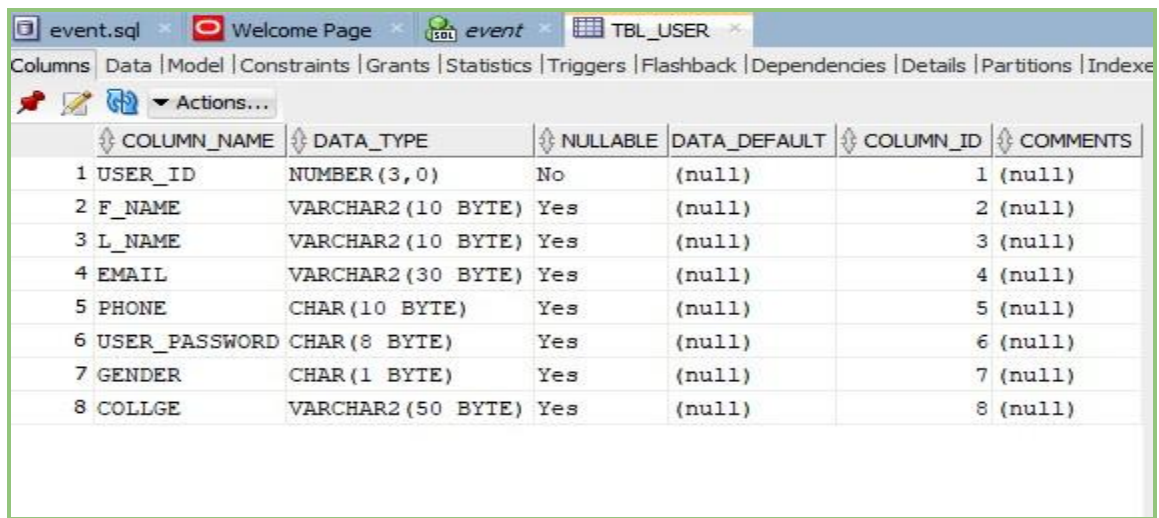
- Event table and its attributes:



The screenshot shows the 'Columns' tab for the 'TBL_EVENT' table in SQL Developer. The table has 11 columns with the following details:

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	EVENT_ID	NUMBER (5,0)	No	(null)	1	(null)
2	EVENT_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	2	(null)
3	ORGANIZER_ID	NUMBER (3,0)	Yes	(null)	3	(null)
4	EVENT_DESC	LONG	Yes	(null)	4	(null)
5	EVENT_CAPACITY	NUMBER (3,0)	Yes	0	5	(null)
6	PRICE	NUMBER (3,0)	Yes	0	6	(null)
7	EVENT_DATE	DATE	Yes	(null)	7	(null)
8	START_TIME	VARCHAR2 (10 BYTE)	Yes	(null)	8	(null)
9	END_TIME	VARCHAR2 (10 BYTE)	Yes	(null)	9	(null)
10	EVENT_LOCATION	VARCHAR2 (8 BYTE)	Yes	(null)	10	(null)
11	STATUS	VARCHAR2 (10 BYTE)	Yes	'on going'	11	(null)

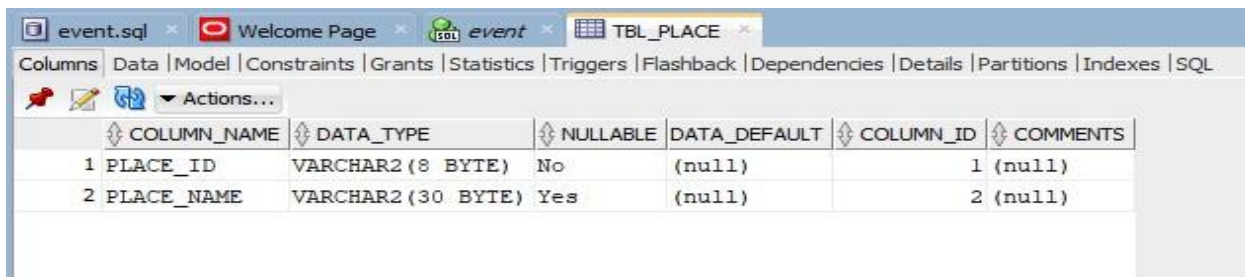
- User table and its attributes:



The screenshot shows the 'Columns' tab for the 'TBL_USER' table in SQL Developer. The table has 8 columns with the following details:

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	USER_ID	NUMBER (3,0)	No	(null)	1	(null)
2	F_NAME	VARCHAR2 (10 BYTE)	Yes	(null)	2	(null)
3	L_NAME	VARCHAR2 (10 BYTE)	Yes	(null)	3	(null)
4	EMAIL	VARCHAR2 (30 BYTE)	Yes	(null)	4	(null)
5	PHONE	CHAR (10 BYTE)	Yes	(null)	5	(null)
6	USER_PASSWORD	CHAR (8 BYTE)	Yes	(null)	6	(null)
7	GENDER	CHAR (1 BYTE)	Yes	(null)	7	(null)
8	COLLGE	VARCHAR2 (50 BYTE)	Yes	(null)	8	(null)

- Place table and its attributes:



The screenshot shows the 'Columns' tab for the 'TBL_PLACE' table in SQL Developer. The table has 2 columns with the following details:

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	PLACE_ID	VARCHAR2 (8 BYTE)	No	(null)	1	(null)
2	PLACE_NAME	VARCHAR2 (30 BYTE)	Yes	(null)	2	(null)

- Follow table came from the relation between user and organizer (user can follow many organizers and organizer followed by many users).

The screenshot shows the SQL Developer interface with the 'FOLLOW' table selected. The table has two columns: USER_ID and ORGNIZER_ID, both of type NUMBER(3,0) and nullable.

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	USER_ID	NUMBER(3,0)	Yes	(null)	1	(null)
2	ORGNIZER_ID	NUMBER(3,0)	Yes	(null)	2	(null)

- likee table came from the relation between user and event(user can like many events and event liked by many users).

The screenshot shows the SQL Developer interface with the 'LIKEE' table selected. The table has two columns: USER_ID and EVENT_ID, both of type NUMBER(3,0) and nullable.

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	USER_ID	NUMBER(3,0)	Yes	(null)	1	(null)
2	EVENT_ID	NUMBER(3,0)	Yes	(null)	2	(null)

- Registration table came from the relation between user and event(user can register for many events and can give feedback about the registered events. an event registered by many users).

The screenshot shows the SQL Developer interface with the 'REGISTRATION' table selected. The table has three columns: USER_ID, EVENT_ID, and FEEDBACKK, with data types NUMBER(3,0), NUMBER(3,0), and LONG respectively.

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	USER_ID	NUMBER(3,0)	Yes	(null)	1	(null)
2	EVENT_ID	NUMBER(3,0)	Yes	(null)	2	(null)
3	FEEDBACKK	LONG	Yes	(null)	3	(null)

- Status table to determine the value of status attribute in the event table.

	STATUS
1	on going
2	canceled

- Time table to determine the value of start time and end time attributes in the event table.

	TIMEE
1	13:00
2	13:30
3	14:00
4	14:30
5	15:00
6	15:30
7	16:00
8	16:30
9	17:00
10	17:30
11	18:00
12	18:30
13	19:00
14	8:00
15	8:30
16	9:00
17	9:30
18	10:00
19	10:30
20	11:00
21	11:30
22	12:00

- Collage table to determine the value of collage attribute in the user table.

	COLLEGE_NAME
1	Faculty of Economics and Social Sciences
2	Faculty of Agriculture and Veterinary Medicine
3	Faculty of Sharia
4	Faculty of Medicine and Health Sciences
5	Faculty of Science
6	Faculty of Humanities
7	Faculty of Educational Sciences
8	Faculty of Fine Arts
9	Faculty of Law
10	Faculty of Engineering and Information Technology

SQL statements:

-create tables statements:

```
CREATE TABLE "C##PROJECT"."COLLEGE"
( "COLLEGE_NAME" VARCHAR2(50 BYTE)
);
```

```
CREATE TABLE "C##PROJECT"."FOLLOW"
( "USER_ID" NUMBER(3,0),
  "ORGANIZER_ID" NUMBER(3,0)
);
```

```
CREATE TABLE "C##PROJECT"."LIKEE"
( "USER_ID" NUMBER(3,0),
  "EVENT_ID" NUMBER(3,0)
```

);

CREATE TABLE "C##PROJECT"."REGISTRATION"

("USER_IDD" NUMBER(3,0),
"EVENT_IDD" NUMBER(3,0),
"FEEDBACKK" LONG

);

CREATE TABLE "C##PROJECT"."SATUS"

("STATUS" VARCHAR2(8 BYTE)

);

CREATE TABLE "C##PROJECT"."TBL_ADMIN"

("ADMIN_PASS" NUMBER(8,0),
"ADMIN_EMAIL" VARCHAR2(30 BYTE)

);

CREATE TABLE "C##PROJECT"."TBL_EVENT"

("EVENT_ID" NUMBER(5,0),
"EVENT_NAME" VARCHAR2(20 BYTE),
"ORGANIZER_ID" NUMBER(3,0),
"EVENT_DESC" LONG,
"EVENT_CAPACITY" NUMBER(3,0) DEFAULT 0,
"PRICE" NUMBER(3,0) DEFAULT 0,
"EVENT_DATE" DATE,

```
"START_TIME" VARCHAR2(10 BYTE),  
"END_TIME" VARCHAR2(10 BYTE),  
"EVENT_LOCATION" VARCHAR2(8 BYTE),  
"STATUS" VARCHAR2(10 BYTE) DEFAULT 'on going'  
);
```

```
CREATE TABLE "C##PROJECT"."TBL_ORG"  
( "ORG_ID" NUMBER(3,0),  
  "ORG_NAME" VARCHAR2(20 BYTE),  
  "MANAGER_NAME" VARCHAR2(20 BYTE),  
  "ORG_EMAIL" VARCHAR2(30 BYTE),  
  "ORG_PHONE" CHAR(10 BYTE),  
  "ORG_PASSWORD" CHAR(8 BYTE),  
  "ORG_DESC" LONG,  
  "ACCEPTED" VARCHAR2(3 BYTE)  
);
```

```
CREATE TABLE "C##PROJECT"."TBL_PLACE"  
( "PLACE_ID" VARCHAR2(8 BYTE),  
  "PLACE_NAME" VARCHAR2(30 BYTE)  
);
```

```
CREATE TABLE "C##PROJECT"."TBL_USER"
```

```
( "USER_ID" NUMBER(3,0),
  "F_NAME" VARCHAR2(10 BYTE),
  "L_NAME" VARCHAR2(10 BYTE),
  "EMAIL" VARCHAR2(30 BYTE),
  "PHONE" CHAR(10 BYTE),
  "USER_PASSWORD" CHAR(8 BYTE),
  "GENDER" CHAR(1 BYTE),
  "COLLGE" VARCHAR2(50 BYTE)
);
```

```
CREATE TABLE "C##PROJECT"."TIMEE"
( "TIMEE" VARCHAR2(10 BYTE)
);
```

--Constraint statements:

```
-- Constraints for Table COLLEGE
```

```
ALTER TABLE "C##PROJECT"."COLLEGE" ADD CONSTRAINT "COLLEGE_PK"
PRIMARY KEY ("COLLEGE_NAME")
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)
TABLESPACE "USERS" ENABLE;
```

```
-----
```

```
-- Constraints for Table TBL_ORG
```

```
-----
```

```
ALTER TABLE "C##PROJECT"."TBL_ORG" ADD CONSTRAINT "PK_ORGID" PRIMARY  
KEY ("ORG_ID")
```

```
  USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS  
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS  
2147483645
```

```
  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
```

```
  BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE  
DEFAULT)
```

```
  TABLESPACE "USERS" ENABLE;
```

```
-----
```

```
-- Constraints for Table SATUS
```

```
-----
```

```
ALTER TABLE "C##PROJECT"."SATUS" ADD CONSTRAINT "STATUS_PK" PRIMARY  
KEY ("STATUS")
```

```
  USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS  
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS  
2147483645
```

```
  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
```

```
  BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE  
DEFAULT)
```

```
  TABLESPACE "USERS" ENABLE;
```

```
-----
```

```
-- Constraints for Table TBL_USER
```

```
-----
```

```
ALTER TABLE "C##PROJECT"."TBL_USER" ADD CONSTRAINT "PK_USERID"  
PRIMARY KEY ("USER_ID")
```



```

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)
TABLESPACE "USERS" ENABLE;

```

```

-----
-- Constraints for Table TBL_PLACE
-----

```

```

ALTER TABLE "C##PROJECT"."TBL_PLACE" ADD CONSTRAINT "PK_PLACEID"
PRIMARY KEY ("PLACE_ID")

```

```

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)
TABLESPACE "USERS" ENABLE;

```

```

-----
-- Constraints for Table TBL_ADMIN
-----

```

```

ALTER TABLE "C##PROJECT"."TBL_ADMIN" ADD CONSTRAINT "PK_ADMINPASS"
PRIMARY KEY ("ADMIN_PASS")

```

```

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645

```

```

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)
TABLESPACE "USERS" ENABLE;
-----

-- Constraints for Table TBL_EVENT
-----

ALTER TABLE "C##PROJECT"."TBL_EVENT" ADD CONSTRAINT "PK_EVENTID"
PRIMARY KEY ("EVENT_ID")
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)
TABLESPACE "USERS" ENABLE;
-----

-- Constraints for Table TIMEE
-----

ALTER TABLE "C##PROJECT"."TIMEE" ADD CONSTRAINT "TIME_PK" PRIMARY KEY
("TIMEE")
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)

```

TABSPACE "USERS" ENABLE;

-- Ref Constraints for Table FOLLOW

**ALTER TABLE "C##PROJECT"."FOLLOW" ADD CONSTRAINT "FOLLOW_USER_FK"
FOREIGN KEY ("USER_ID")**

**REFERENCES "C##PROJECT"."TBL_USER" ("USER_ID") ON DELETE CASCADE
ENABLE;**

**ALTER TABLE "C##PROJECT"."FOLLOW" ADD CONSTRAINT "FOLLOW_ORG_FK"
FOREIGN KEY ("ORGNIZER_ID")**

**REFERENCES "C##PROJECT"."TBL_ORG" ("ORG_ID") ON DELETE CASCADE
ENABLE;**

-- Ref Constraints for Table LIKEE

**ALTER TABLE "C##PROJECT"."LIKEE" ADD CONSTRAINT "LIKE_USER_FK"
FOREIGN KEY ("USER_ID")**

**REFERENCES "C##PROJECT"."TBL_USER" ("USER_ID") ON DELETE CASCADE
ENABLE;**

**ALTER TABLE "C##PROJECT"."LIKEE" ADD CONSTRAINT "LIKE_EVENT_FK"
FOREIGN KEY ("EVENT_ID")**

**REFERENCES "C##PROJECT"."TBL_EVENT" ("EVENT_ID") ON DELETE
CASCADE ENABLE;**

-- Ref Constraints for Table REGISTRATION

```
ALTER TABLE "C##PROJECT"."REGISTRATION" ADD CONSTRAINT "REG_USER_FK"
FOREIGN KEY ("USER_ID")
```

```
REFERENCES "C##PROJECT"."TBL_USER" ("USER_ID") ON DELETE CASCADE
ENABLE;
```

```
ALTER TABLE "C##PROJECT"."REGISTRATION" ADD CONSTRAINT
"REG_EVENT_FK" FOREIGN KEY ("EVENT_ID")
```

```
REFERENCES "C##PROJECT"."TBL_EVENT" ("EVENT_ID") ON DELETE
CASCADE ENABLE;
```

```
-----
-- Ref Constraints for Table TBL_EVENT
-----
```

```
ALTER TABLE "C##PROJECT"."TBL_EVENT" ADD CONSTRAINT
"EVENT_LOCATION_FK" FOREIGN KEY ("EVENT_LOCATION")
```

```
REFERENCES "C##PROJECT"."TBL_PLACE" ("PLACE_ID") ENABLE;
```

```
ALTER TABLE "C##PROJECT"."TBL_EVENT" ADD CONSTRAINT
"EVENT_STATUS_FK" FOREIGN KEY ("STATUS")
```

```
REFERENCES "C##PROJECT"."STATUS" ("STATUS") ENABLE;
```

```
ALTER TABLE "C##PROJECT"."TBL_EVENT" ADD CONSTRAINT
"EVENT_START_FK" FOREIGN KEY ("START_TIME")
```

```
REFERENCES "C##PROJECT"."TIMEE" ("TIMEE") ENABLE;
```

```
ALTER TABLE "C##PROJECT"."TBL_EVENT" ADD CONSTRAINT "EVENT_END_FK"
FOREIGN KEY ("END_TIME")
```

```
REFERENCES "C##PROJECT"."TIMEE" ("TIMEE") ENABLE;
```

```
ALTER TABLE "C##PROJECT"."TBL_EVENT" ADD CONSTRAINT
"EVENT_ORGID_FK" FOREIGN KEY ("ORGANIZER_ID")
```

```
REFERENCES "C##PROJECT"."TBL_ORG" ("ORG_ID") ON DELETE CASCADE
ENABLE;
```

```
-----
-- Ref Constraints for Table TBL_USER
-----
```

ALTER TABLE "C##PROJECT"."TBL_USER" ADD CONSTRAINT
"USER_COLLEGE_FK" FOREIGN KEY ("COLLGE")
REFERENCES "C##PROJECT"."COLLEGE" ("COLLEGE_NAME") ON DELETE
CASCADE ENABLE;

--primary key statements:

CREATE UNIQUE INDEX "C##PROJECT"."PK_ADMINPASS" ON
"C##PROJECT"."TBL_ADMIN" ("ADMIN_PASS")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)

TABLESPACE "USERS" ;

-- DDL for Index PK_EVENTID

CREATE UNIQUE INDEX "C##PROJECT"."PK_EVENTID" ON
"C##PROJECT"."TBL_EVENT" ("EVENT_ID")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)

TABLESPACE "USERS" ;

-- DDL for Index PK_ORGID

CREATE UNIQUE INDEX "C##PROJECT"."PK_ORGID" ON
"C##PROJECT"."TBL_ORG" ("ORG_ID")
PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)
TABLESPACE "USERS" ;

-- DDL for Index PK_PLACEID

CREATE UNIQUE INDEX "C##PROJECT"."PK_PLACEID" ON
"C##PROJECT"."TBL_PLACE" ("PLACE_ID")
PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)
TABLESPACE "USERS" ;

-- DDL for Index PK_USERID

```

-----

CREATE UNIQUE INDEX "C##PROJECT"."PK_USERID" ON
"C##PROJECT"."TBL_USER" ("USER_ID")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)

TABLESPACE "USERS" ;

```

```

-----

-- DDL for Index STATUS_PK

-----

```

```

CREATE UNIQUE INDEX "C##PROJECT"."STATUS_PK" ON "C##PROJECT"."STATUS"
("STATUS")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE
DEFAULT)

TABLESPACE "USERS" ;

```

```

-----

-- DDL for Index TIME_PK

-----

```

```
CREATE UNIQUE INDEX "C##PROJECT"."TIME_PK" ON "C##PROJECT"."TIMEE"  
("TIMEE")  
PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS  
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS  
2147483645  
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1  
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE  
DEFAULT)  
TABLESPACE "USERS" ;
```

Normalization Process :

1NF (we make sure for every table in our project that the intersection of every column and record contains only one value) . For that , we make sure to use simple attributes and no multivalued attributes .

2NF (we don't use composite keys so our tables are already in the second normal form) , and no partial dependency .

3NF (for the third normal form) we make sure that there is no no primary key column is transitively dependant on the primary key) so for each primary key (A) , if (b) is other column and $A \rightarrow b$ we don't have $b \rightarrow c$ in any table .

(BCNF) we make sure every determinant in all tables is a candidate key.

Used tools in the Project:

- 1-IDE for java (Intellij) 2021.3.3
- 2-Oracle sql developer database 21c
- 3-Scene builder
- 4-javafx libraries with animate fx .
- 5-Draw.io
- 6-Jasper Reports library
- 7-css style sheets to style components.
- 8-Jasper Studio
- 9-Canva for logos and images
- 10-Muzli for colors

GUI :

Main Page: This is A slided welcoming page. it slides and show the sign in page if sign in clicked .It slides and show the sign up page (according to user type from radio button) when sign up is clicked

The image shows a main page with a dark green background. On the left, there is a light green box with a close button (X) and a hamburger menu icon (three horizontal lines). Inside this box, it says "Don't have an account ?" and "Come an join us to view Intersted events". Below this, there are two radio buttons: "User" (selected) and "Organization". A "Sign Up" button is at the bottom of this box. On the right, there is a white box titled "Sign In As :". It has three radio buttons: "User" (selected), "Organization", and "Admin". Below these are input fields for "Email Address :" (containing "name@company.com") and "Password :" (containing "Enter your passowrd"). There is a "Show Password" checkbox and a "Sign In" button. Below the button, it says "Invalid Password or User Name" and there is a small pie chart icon.

if **Sign up is clicked** while **User radio button is selected** , User Sign up page will appear So that user can create account as shown below :

The image shows a user sign up page with a dark green background. On the left, there is a white box with a "Register Now" button and a user icon. Below this, there are input fields for "First Name", "Last Name", "Email" (containing "name@gmail.com"), "Phone Number", "Gender" (with "Male" and "Female" radio buttons), "Faculty" (a dropdown menu), "Password" (with a "Show Password" checkbox), and "Confirm Password" (containing "Repeat password"). A "Sign Up" button is at the bottom of this box. On the right, there is a green box with a logo that says "EVENT MANAGEMENT MEET UP". Below the logo, it says "Welcome Back To Meet UP" and "Sign in to continue". A "Sign In" button is at the bottom of this box.

In this page we make the validation for using only gmail emails , valid phone numbers in palestine , and password strength indicator . We use the AnimateFx library to Animate the empty textFields .

The 'Sign Up' form includes the following fields and validation:

- First Name:** ayah
- Last Name:** shraim
- Email:** a@hotmail.com (Validation: only gmail...)
- Phone Number:** 05944000 (Validation: invalid !)
- Gender:** Male (selected), Female
- Faculty:** Faculty of Science
- Password:** aaaa##ee (Validation: Medium !)
- Confirm Password:** Password mismatch

A 'Sign Up' button is at the bottom of the form. The background shows a 'Welcome Back To Meet UP' sign-in screen with a 'Sign In' button.

If all validation conditions are true , user account will be created so that user could sign in .If **Sign up is clicked while Organization radio button is selected** , Organization Sign up page will appear So that an Organization can create account with Accepted equal 'No' until Admin accept it as shown below (we also use the validation here) :

The 'Organization Sign Up' form includes the following fields and validation:

- Name:** IVR
- Manager Name:** dalal ahmed
- Email:** IVR@gmail.com
- Phone Number:** 0599321456
- Description:** our organization is for he
- Password:** (Validation: Strong !)
- Confirm Password:**

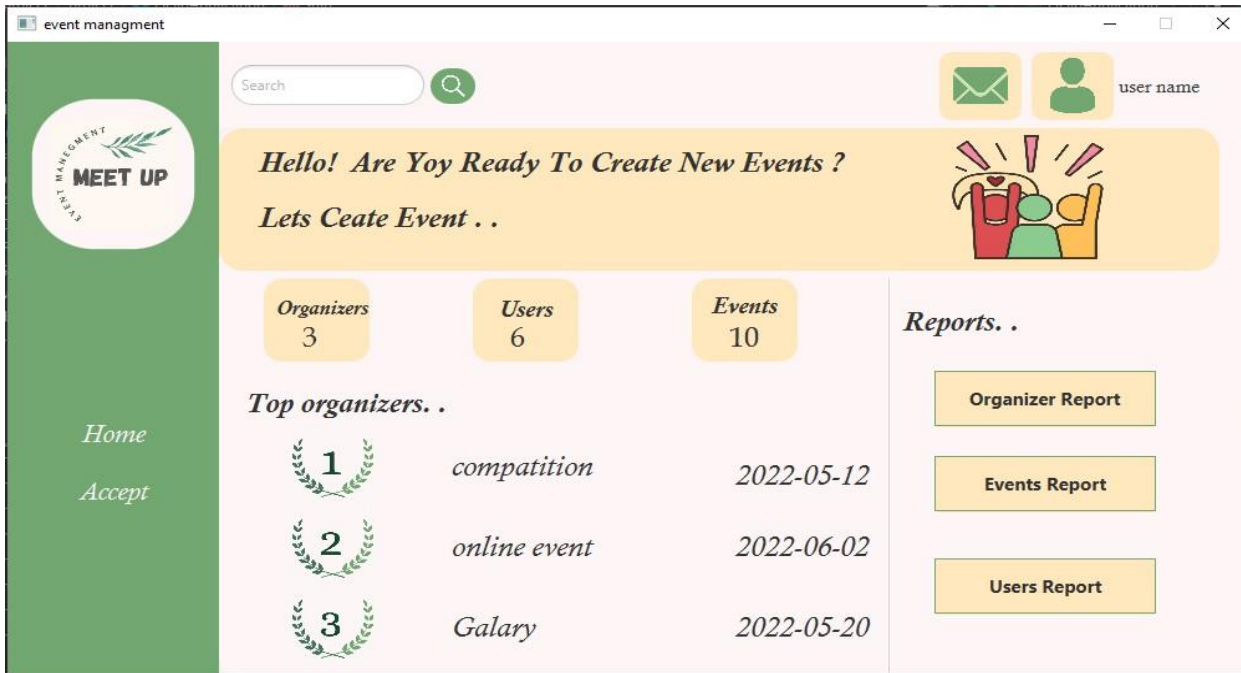
A 'Sign Up' button is at the bottom of the form. The background shows a 'Welcome Back To Meet UP' sign-in screen with a 'Sign In' button.

After signing up , as we said , you could sign in with the same account that you've created . Admin can also sign in . If you try to sign in as an organization , then your account creation request should be accepted before by the admin or you'll not be able to sign in .

ORG_ID	ORG_NAME	MANAGER_NAME	ORG_EMAIL	ORG_PHONE	ORG_PASSWORD	ORG_DESC	ACCEPTED
1	6 ASCE	Ahmad qoqa	ASCE@gmail.com	0598315957	12365478	Our student chapter...	No
2	8 Sapa	malak ajaj	sapa@gmail.com	0598321456	14785236	We are a scientific...	(null)
3	4 AIN	shkri bitar	AIN@gmail.com	0599114433	12365478	Originally a societ...	yes
4	1 IVR	dalal ahmed	IVR@gmail.com	0599321456	IVR@1234	our organization is...	No
5	2 IEEE	hiba raed	aaaa@gmail.com	0599112233	aaa@1234	The IEEE Student Br...	yes

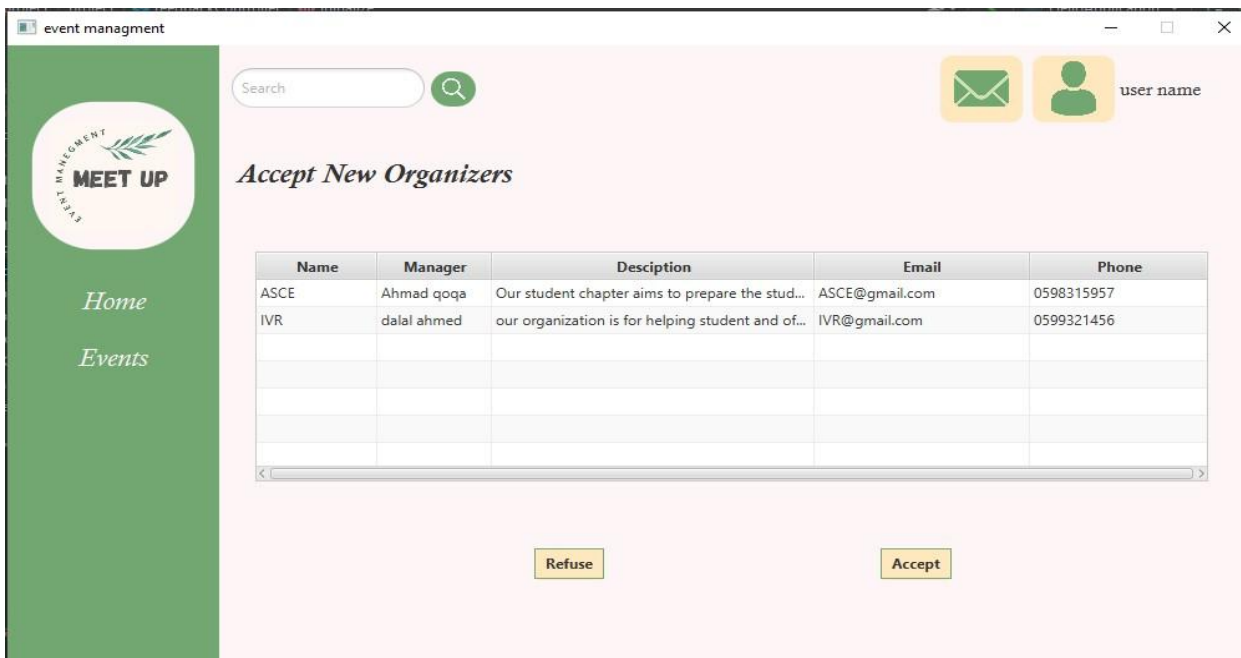
Admin:

Here is the home page for the admin. It shows to him the count of all users, the count of all accepted organizers and the count of all the events. And it shows the name and date of the top 3 events of all events according to the number of likes.



The screenshot shows the Admin Home Page of the 'event management' system. The page has a green sidebar with a 'MEET UP' logo and navigation links for 'Home' and 'Accept'. The main content area features a search bar, a user profile icon, and a welcome message: 'Hello! Are You Ready To Create New Events? Lets Create Event...'. Below this, there are three summary cards: 'Organizers' (3), 'Users' (6), and 'Events' (10). A section titled 'Top organizers...' lists three entries: 1. 'compatition' (2022-05-12), 2. 'online event' (2022-06-02), and 3. 'Galary' (2022-05-20). On the right, there is a 'Reports...' section with buttons for 'Organizer Report', 'Events Report', and 'Users Report'.

If you clicked on **Accept** button from the dashboard on the left. This page will be opened:



The screenshot shows the 'Accept New Organizers' page. It features a green sidebar with the 'MEET UP' logo and navigation links for 'Home' and 'Events'. The main content area has a search bar, a user profile icon, and the title 'Accept New Organizers'. Below the title is a table with the following data:

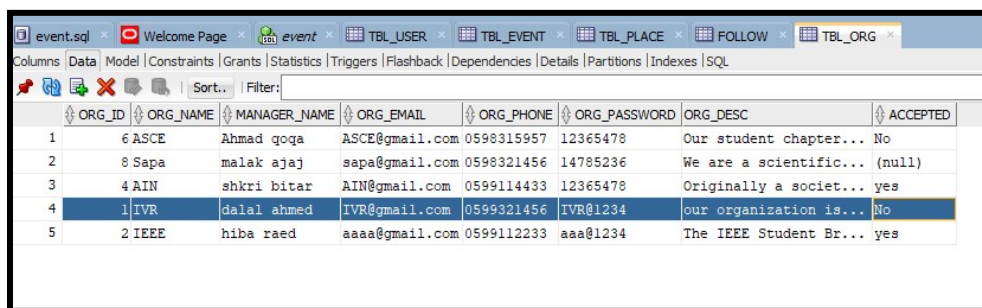
Name	Manager	Description	Email	Phone
ASCE	Ahmad qoqa	Our student chapter aims to prepare the stud...	ASCE@gmail.com	0598315957
IVR	dalal ahmed	our organization is for helping student and of...	IVR@gmail.com	0599321456

At the bottom of the page, there are two buttons: 'Refuse' and 'Accept'.

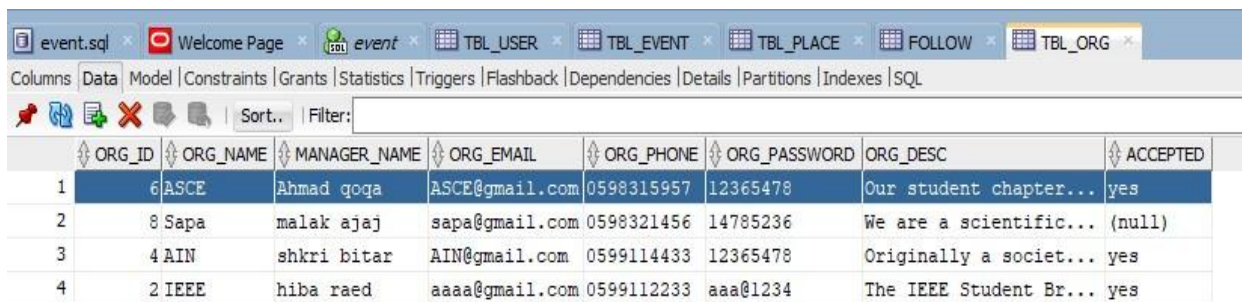
This page shows for the admin non accepted organizers. If An organizer wants to create a new account he will not be accepted unless the admin accepts him so he can open his account and publish events. As we can see the table contains the information about the non accepted organizers and there are 2 buttons at the bottom. **Accept** button to accept the selected organizer. and **Refuse** button to refuse the selected organizer and delete him.

If the admin accepts the organizer the Accepted attribute in tal_org will be changed from No to yes.

If the admin refused the organizer, all the information about this organizer will be deleted from tbl_org.
for example here the org_tbl before and after accepting ASCE and refusing IVR:



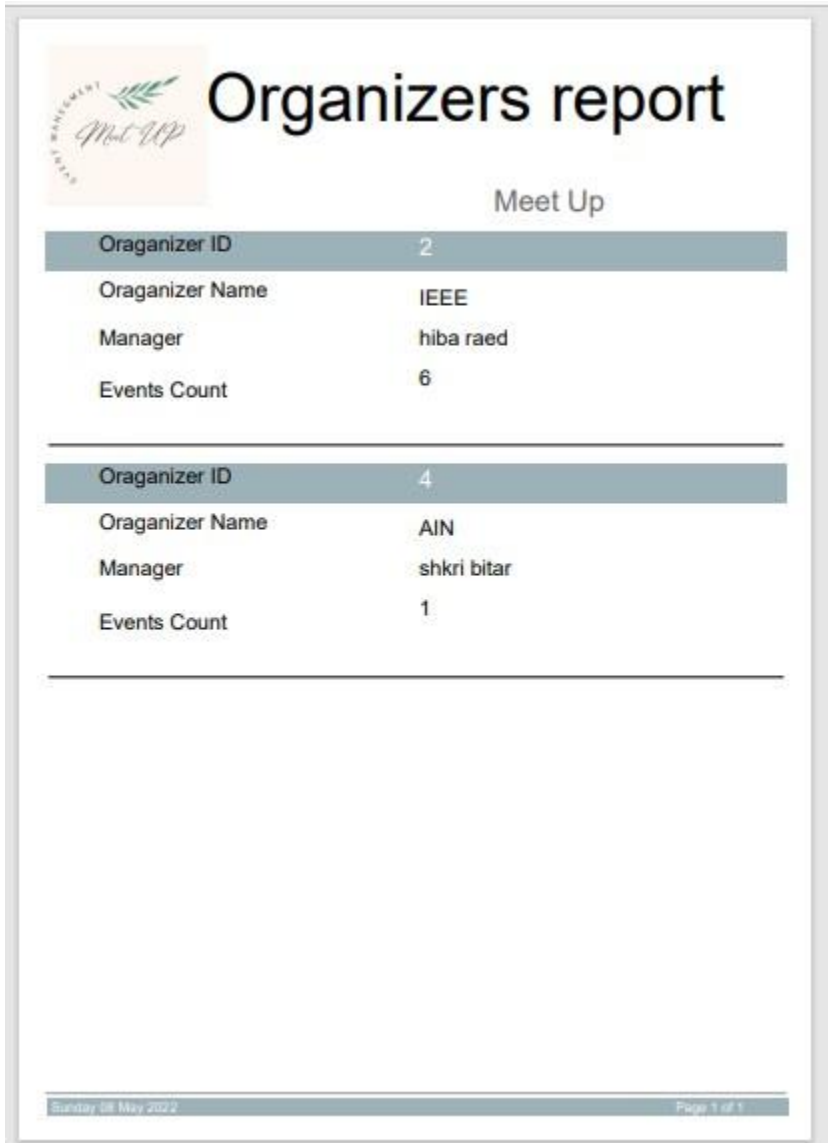
	ORG_ID	ORG_NAME	MANAGER_NAME	ORG_EMAIL	ORG_PHONE	ORG_PASSWORD	ORG_DESC	ACCEPTED
1	6	ASCE	Ahmad qoqa	ASCE@gmail.com	0598315957	12365478	Our student chapter...	No
2	8	Sapa	malak ajaj	sapa@gmail.com	0598321456	14785236	We are a scientific...	(null)
3	4	AIN	shkri bitar	AIN@gmail.com	0599114433	12365478	Originally a societ...	yes
4	1	IVR	dalal ahmed	IVR@gmail.com	0599321456	IVR@1234	our organization is...	No
5	2	IEEE	hiba raed	aaaa@gmail.com	0599112233	aaa@1234	The IEEE Student Br...	yes



	ORG_ID	ORG_NAME	MANAGER_NAME	ORG_EMAIL	ORG_PHONE	ORG_PASSWORD	ORG_DESC	ACCEPTED
1	6	ASCE	Ahmad qoqa	ASCE@gmail.com	0598315957	12365478	Our student chapter...	yes
2	8	Sapa	malak ajaj	sapa@gmail.com	0598321456	14785236	We are a scientific...	(null)
3	4	AIN	shkri bitar	AIN@gmail.com	0599114433	12365478	Originally a societ...	yes
4	2	IEEE	hiba raed	aaaa@gmail.com	0599112233	aaa@1234	The IEEE Student Br...	yes

You can see in the home page for admin there is Reports section this section is to show the admin jasper reports about organizers,events and users.

If you click on the **Organizer report** button a PDF file will be created containing a report about organizers who have events and the number of their events.



The image shows a preview of a PDF report titled "Organizers report". At the top left is a logo for "Meet Up" with a leaf icon. The title "Organizers report" is in a large, bold font. Below the title, the text "Meet Up" is centered. The report contains two tables of organizer data. The first table lists details for Organizer ID 2 (IEEE, Manager: hiba raed, Events Count: 6). The second table lists details for Organizer ID 4 (AIN, Manager: shkri bitar, Events Count: 1). At the bottom, a footer bar shows the date "Sunday 08 May 2022" and "Page 1 of 1".

Meet Up	
Organizer ID	2
Organizer Name	IEEE
Manager	hiba raed
Events Count	6

Organizer ID	4
Organizer Name	AIN
Manager	shkri bitar
Events Count	1

Sunday 08 May 2022

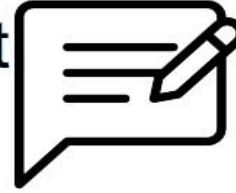
Page 1 of 1

If you click on the **Events Report** button a PDF file will be created containing a report about all events and the information about each one.



Events Report

Meet UP



ID	NAME	ORG_ID	Start time	End time	DESC	LOCATION	STATUS
9	VR	2	10:00	11:30	talk about VR technology	11G0060	on going
3	compation	2	17:00	19:00	program compation for student	2222222	on going
6	Galary	4	9:00	15:00	Galary about the organization to let the student know about us	1111111	on going
12	Ramadan event 2		18:00	23:00	Ramadan event for student	1111111	canceled
14	online event	2	15:00	17:00	online event on zoom to talk about the organization	1000000	on going
18	Scientific Symposium	2	14:00	15:30	Scientific Symposium about new technologies	3333333	canceled
21	robots	2	11:00	12:30	this event about robots and the technology used with them	2222222	on going

Sunday 08 May 2022

Page 1 of 1

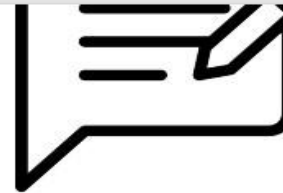
Activ
Go to :

If you click on the **Users Report** button a PDF file will be created containing a report about all users and the information about each one.



Users

Meet Up



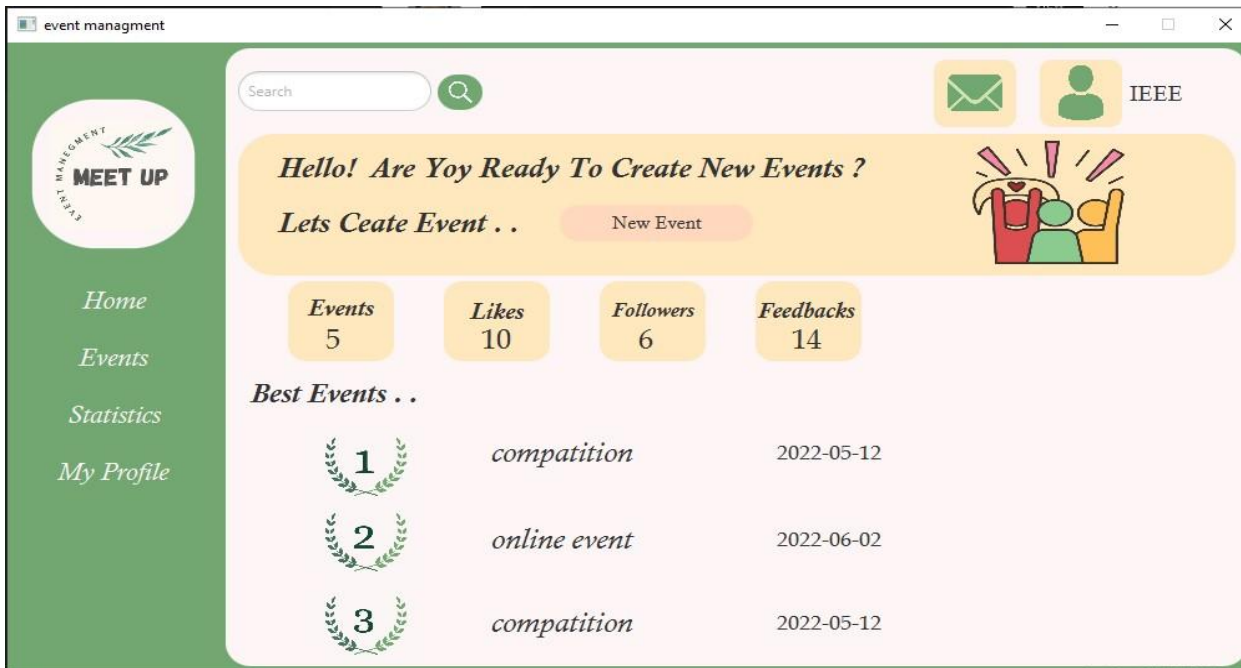
USER_ID	F_NAME	L_NAME	GENDER	PHONE	EMAIL
1	marah	direeni	F	0595367273	direenimarah@gmail.com
2	maha	direeni	F	0595123456	maha.2004@gmail.com
3	ayah	shraim	F	0599887744	ayah@gmail.com
4	ahmad	raed	M	0598112244	ahmad@gmail.com
5	yazan	qoqa	M	0599321654	yazan@gmail.com
6	ameer	aqad	M	0598741258	Ameer@gmail.com

Sunday 08 May 2022

Page 1 of 1

Organizer:

Here when an organizer sign in to his account. Here is the home page:



c As we can see, the home page shows simple numbers for the account. It shows for him the count of all his events, the count of his followers, the count of all feedbacks about the events and the count of all likes of his events.

we can see also the area for creating new event. if you clicked on **New Event** button it will open this page:

event managment

Search

MEET UP

Home

Events

Statistics

My Profile

Create New Event . .

Basic Information

Event Title

robots

Event Description

this event is about robots and the

Location

Help people in the area discover your event and let attendees know where to show up.

Online Event?

N_Gate

Date and Time

Tell event-goers when your event starts and ends so they can make plans to attend.

2022/01/01

Start Time

11:00

End Time

12:30

Next

As you can see this page for creating new event here you can fill the text fields with information about the event. when you click on the button **Next** it will open a new page to continue filling event information and creating it.

event managment

Search

MEET UP

Home

Events

Statistics

My Profile

Create New Event . .

Add Image

Ticket

Available Attendance

50

Price

20

Previous

Add

Here you can continue creating your event. if you click on the **Previous** button it will take you to the first page for creating event. If you click on the **Add** button your event will be created and inserted into the events table.

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL											
Filter:											
	EVENT_ID	EVENT_N...	ORGANIZ...	EVENT_DESC	EVENT_C...	PRICE	EVENT_D...	START_TI...	END_TIME	EVENT_L...	STATUS
1	9	VR	2	talk ab...	50	0	24/05/22	10:00	11:30	11G0060	on going
2	3	compati...	2	program...	150	85	12/05/22	17:00	19:00	2222222	on going
3	6	Galary	4	Galary ...	200	0	20/05/22	9:00	15:00	1111111	on going
4	12	Ramadan...	2	Ramadan...	100	70	05/05/22	18:00	23:00	1111111	canceled
5	14	online ...	2	online ...	100	0	02/06/22	15:00	17:00	1000000	on going
6	18	Scienti...	2	Scienti...	40	0	07/06/22	14:00	15:30	3333333	canceled
7	21	robots	2	this ev...	50	20	10/05/22	11:00	12:30	2222222	on going

Here is tbl_event after adding new event.

From the dashboard on the left if you click on **Home** button it will open the home page for you.

Also from the dashboard if you click on **My Events** button, a new page will open containing a table of all the events of the organizer.

MEET UP

Home

Events

Statistics

My Profile

user name

Sort By

Sort

Event ID	Event Name	Event Date	Location
9	VR	2022-05-24	11G0060
3	competition	2022-05-12	2222222
12	Ramadan event	2022-05-05	1111111
14	online event	2022-06-02	1000000
18	Scientific Symposium	2022-06-07	3333333
21	robots	2022-05-10	2222222

Cancel Event

View Details

So you can see the table containing all events of the organizer. You can filter the events on the table according to their status (All or on going, canceled). you can choose from the choice list and click **Sort** to filter the events.

event managment

Search

user name

MEET UP

Home

Events

Statistics

My Profile

Sort By

All

on going

canceled

Sort

Event ID	Event Name	Event Date	Location
9		2022-05-24	11G0060
3	patition	2022-05-12	2222222
12	Ramadan event	2022-05-05	1111111
14	online event	2022-06-02	1000000
18	Scientific Symposium	2022-06-07	3333333
21	robots	2022-05-10	2222222

Cancel Event

View Details

event managment

Search

user name

MEET UP

Home

Events

Statistics

My Profile

Sort By

canceled

Sort

Event ID	Event Name	Event Date	Location
12	Ramadan event	2022-05-05	1111111
18	Scientific Symposium	2022-06-07	3333333

Cancel Event

View Details

Here is the table above after filtering the canceled events.

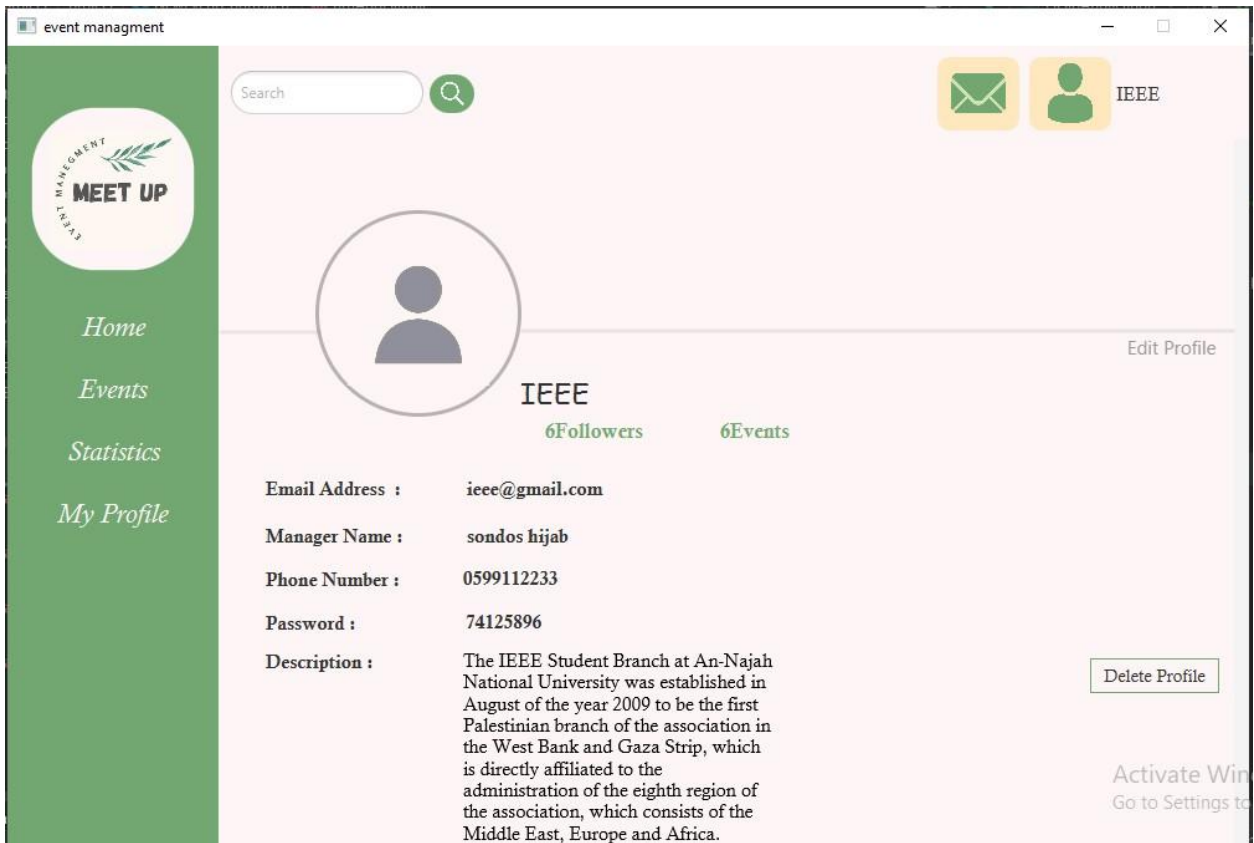
If you click on cancel the event will be canceled and the status attribute of the event will be changed to (canceled)

If you click on the button **View Details** a new page will open to see all the details about the selected event from the table.



Here is the page containing all the information about selected event, the name, the time, the date, the place id, the price, the status of the event, the description, the attendance count (people who registered for the event and list of their names) and count of likes and list of names of the people who liked the event.

Also from the dashboard if you click on **My Profile** button a new page will open. this page containing information about the organizer:



As you can see this page shows the information about the organizer. If you click on **Edit Profile** button a new page will open to enable the organizer to edit his information:

event managment

Search

IEEE

Edit Your Profile . .

Home
Events
Statistics
My Profile

Edit Organizer Name: IEEE

Edit Manager Name: sondos hijab

Edit Email: ieee@gmail.com

Edit Phonr Number: 0599112233

Edit Description: The IEEE Student Branch at An-Najaf

Edit Password:

Confirm Password:

Save

As you see this page is initially loaded with the original information. if the user wants to edit any information he can fill the appropriate text field and then click on **Save** button to save the changes on the organizer table.

event managment

Search

IEEE

Edit Your Profile . .

Home
Events
Statistics
My Profile

Edit Organizer Name: IEEE

Edit Manager Name: hiba raed

Edit Email: aaaa@gmail.com

Edit Phonr Number: 0599112233

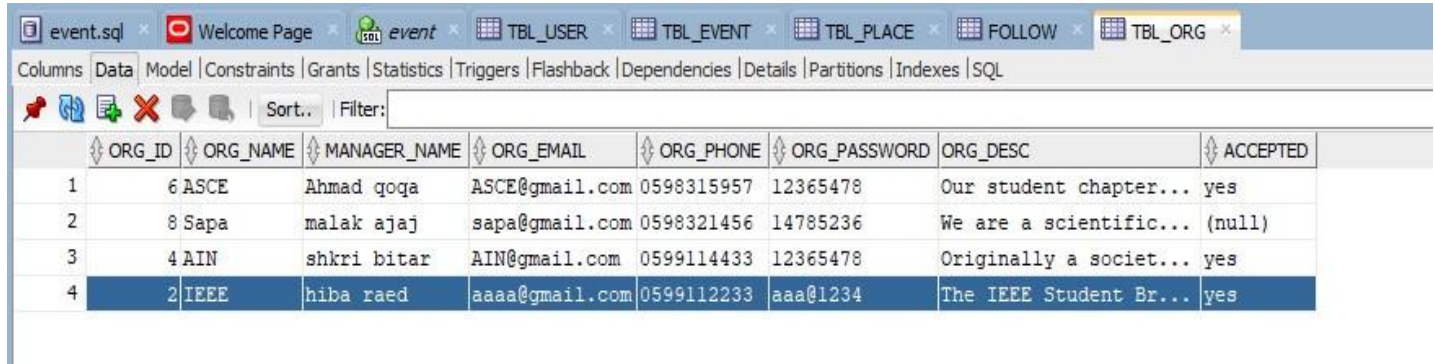
Edit Description: The IEEE Student Branch at An-Najaf

Edit Password:

Confirm Password:

Save

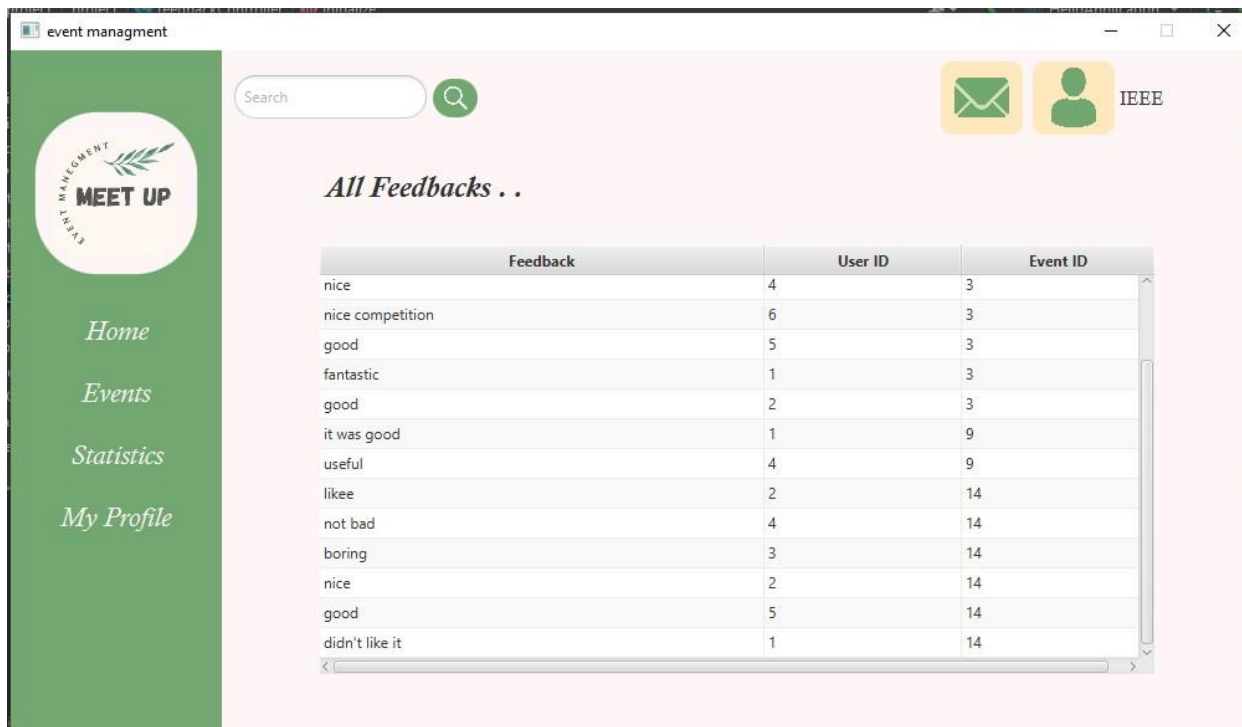
here is example for IEEE organizer. changing the manager name and the email and password.here is the result on the database:



	ORG_ID	ORG_NAME	MANAGER_NAME	ORG_EMAIL	ORG_PHONE	ORG_PASSWORD	ORG_DESC	ACCEPTED
1	6	ASCE	Ahmad qoqa	ASCE@gmail.com	0598315957	12365478	Our student chapter...	yes
2	8	Sapa	malak ajaj	sapa@gmail.com	0598321456	14785236	We are a scientific...	(null)
3	4	AIN	shkri bitar	AIN@gmail.com	0599114433	12365478	Originally a societ...	yes
4	2	IEEE	hiba raed	aaaa@gmail.com	0599112233	aaa@1234	The IEEE Student Br...	yes

From my profile page if you click on the Delete **Profile** button the organizer information will be deleted from the database and it will open the sign in page.

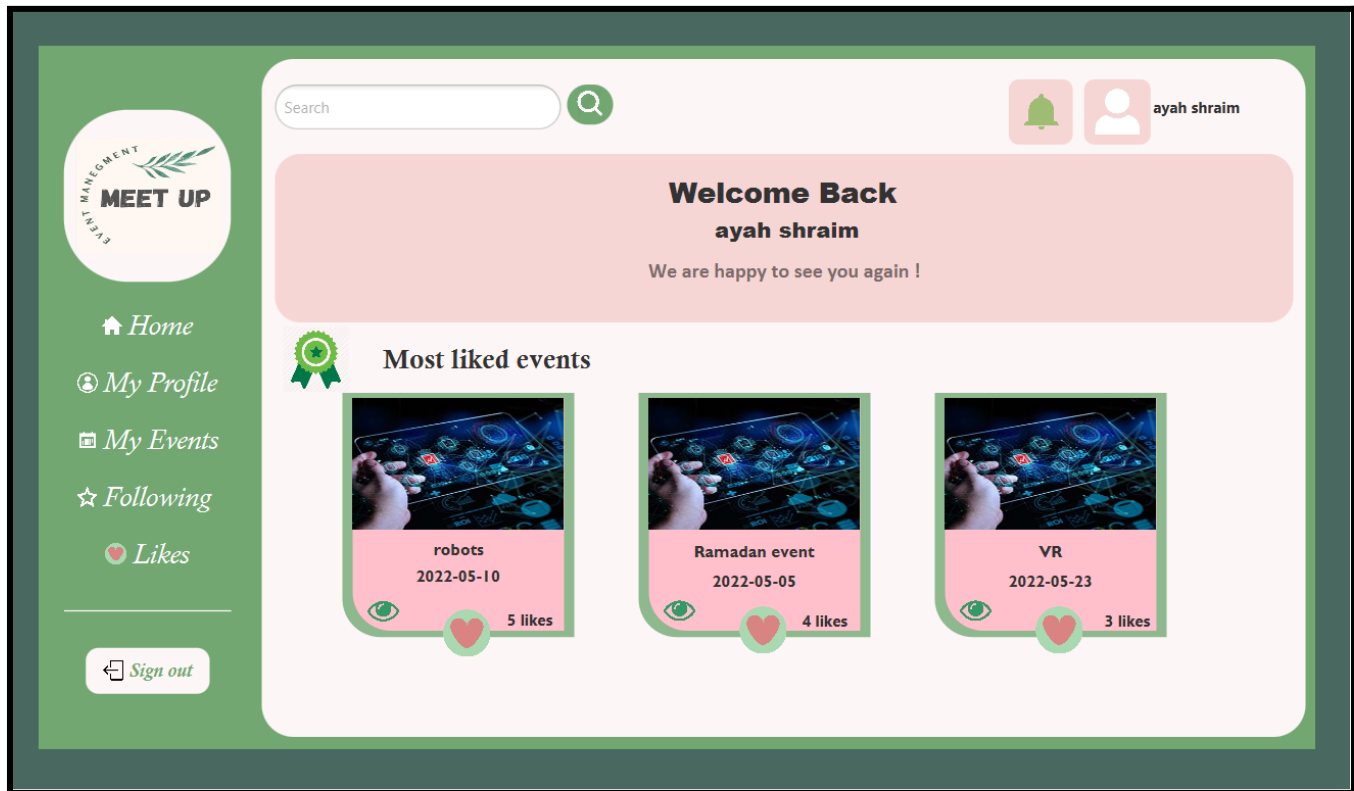
And finally for the organizer account if you click on the **letter icon** a new page will open showing all the feedbacks of the organizer events.



Feedback	User ID	Event ID
nice	4	3
nice competition	6	3
good	5	3
fantastic	1	3
good	2	3
it was good	1	9
useful	4	9
likee	2	14
not bad	4	14
boring	3	14
nice	2	14
good	5	14
didn't like it	1	14

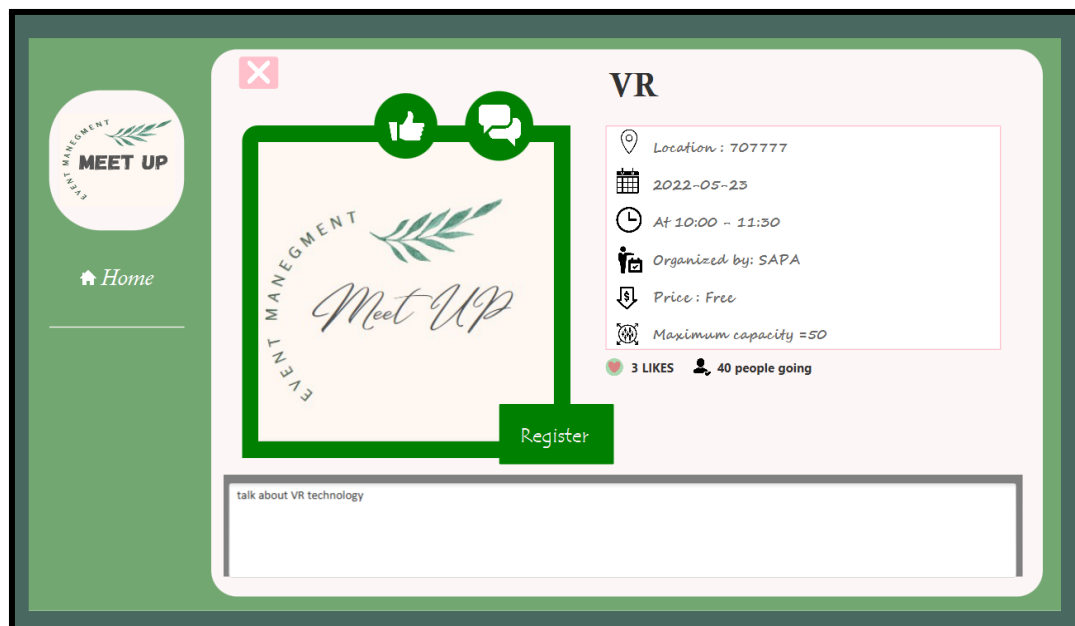
Here is a table showing all feedback. the user id who gave the feedback and the event id the feedback for and the feedback itself.

User : After signing in As user ,User Dash will appear having the user name with welcoming message , and Top 3 events in the Application with their Name likes and Date .



Users have the choice , even go to any bage clicking the buttons on the left side or view any event of the top 3 events by clicking the eye icon .

If user **click eye icon for the VR** event as an example then the VR event details will be shown :



As you can see , All event Information is shown . Now if a user clicks to make Feedback

feedback button →



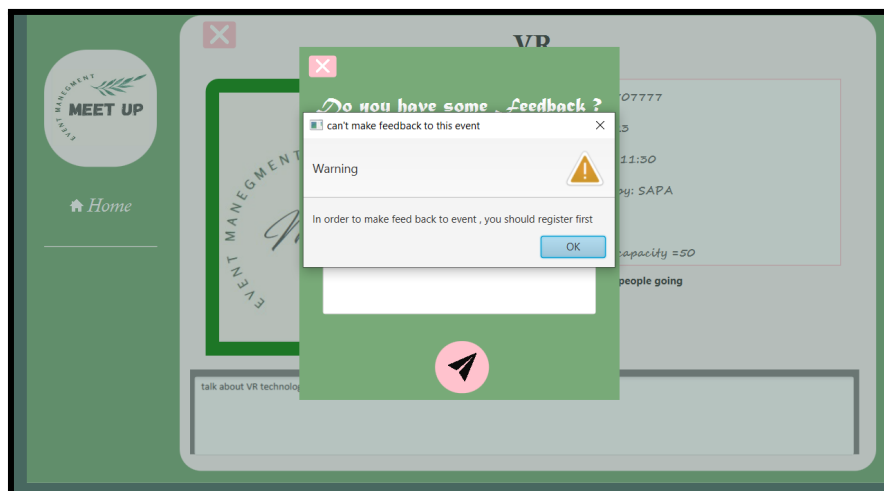
a pop page will appear to him asking about feedback text , if clicking in send feedback , it will check for registration of this user to this event . if he's not register a message that asks him to register first .



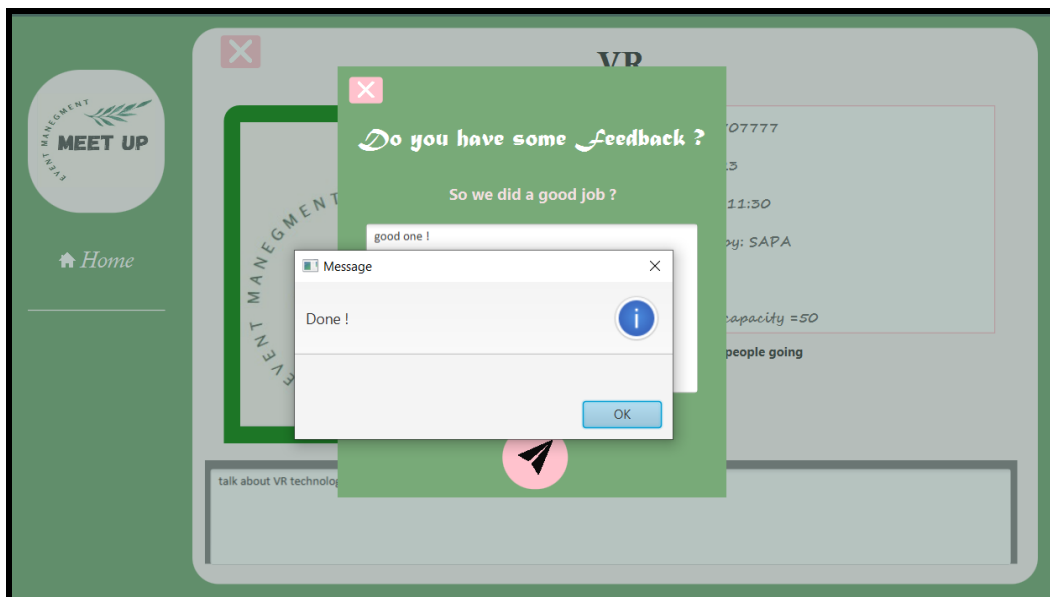
Send Feedback button →



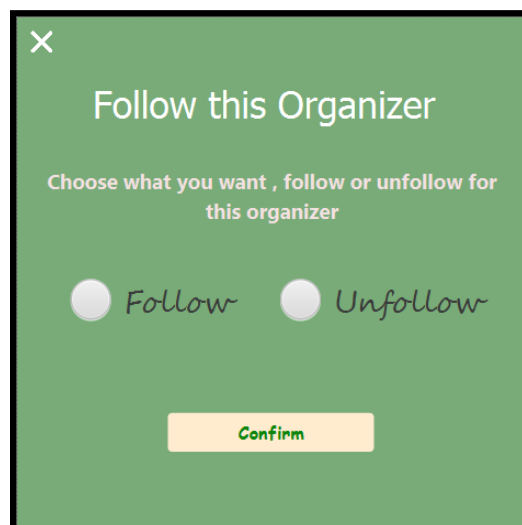
Result if not registered yet :



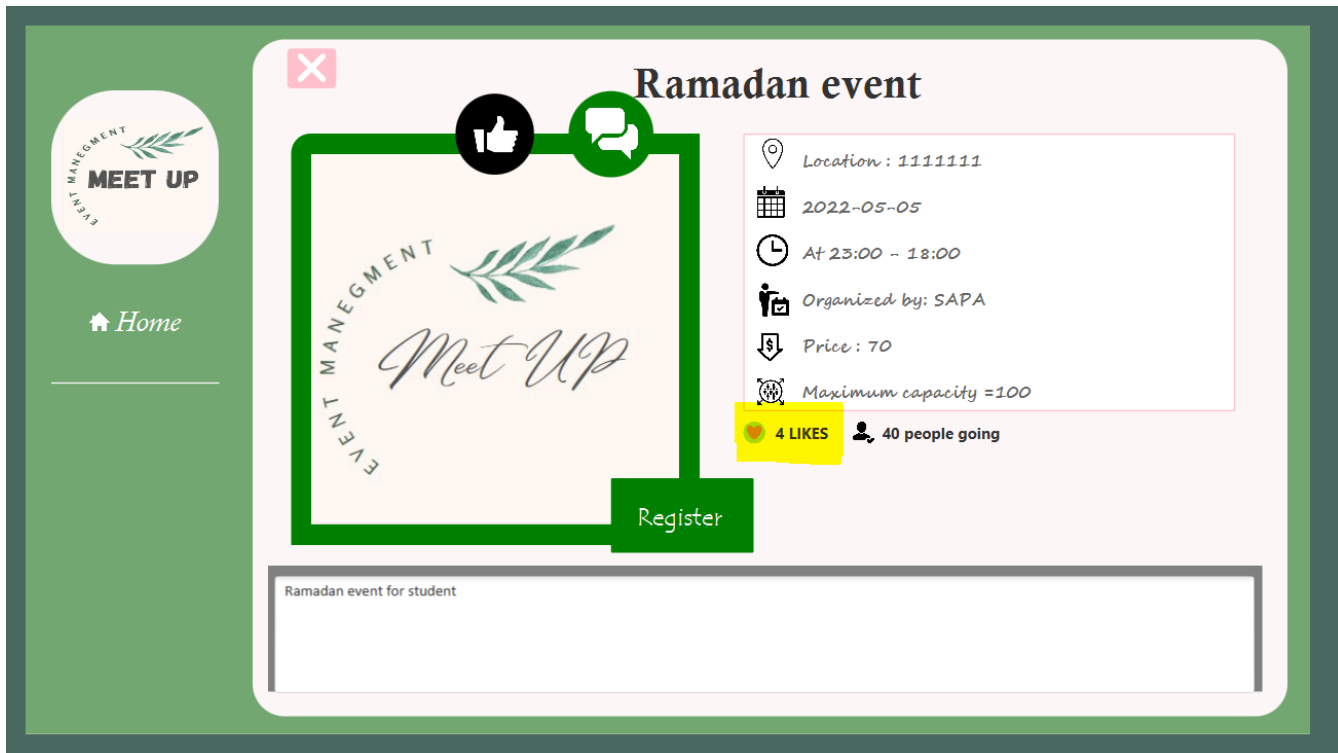
Now if user close the warning and the feedback using the X) and click on register , this event will be added to his events and he can now make feedback :



if user click the organizer name label from the white box , he can choose to follow or unfollow this organizer

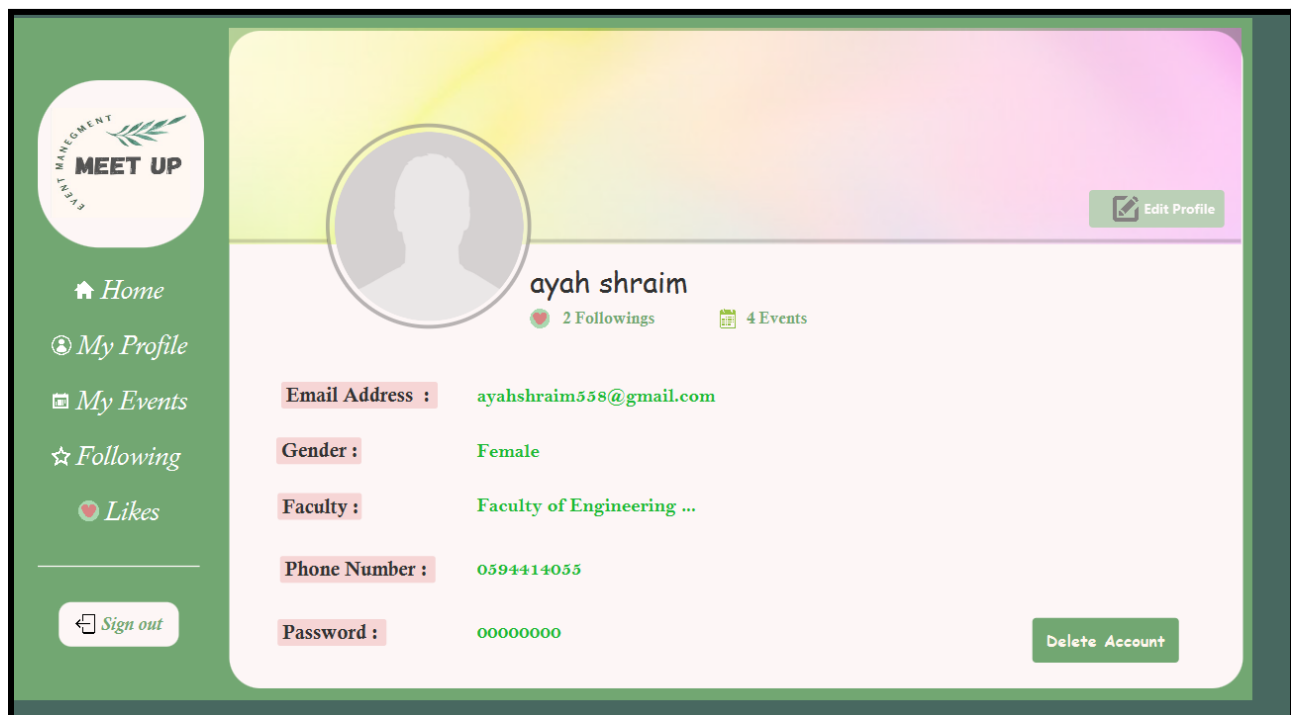


User can also make like from like button and remove this like so the total like number will be change as shown :

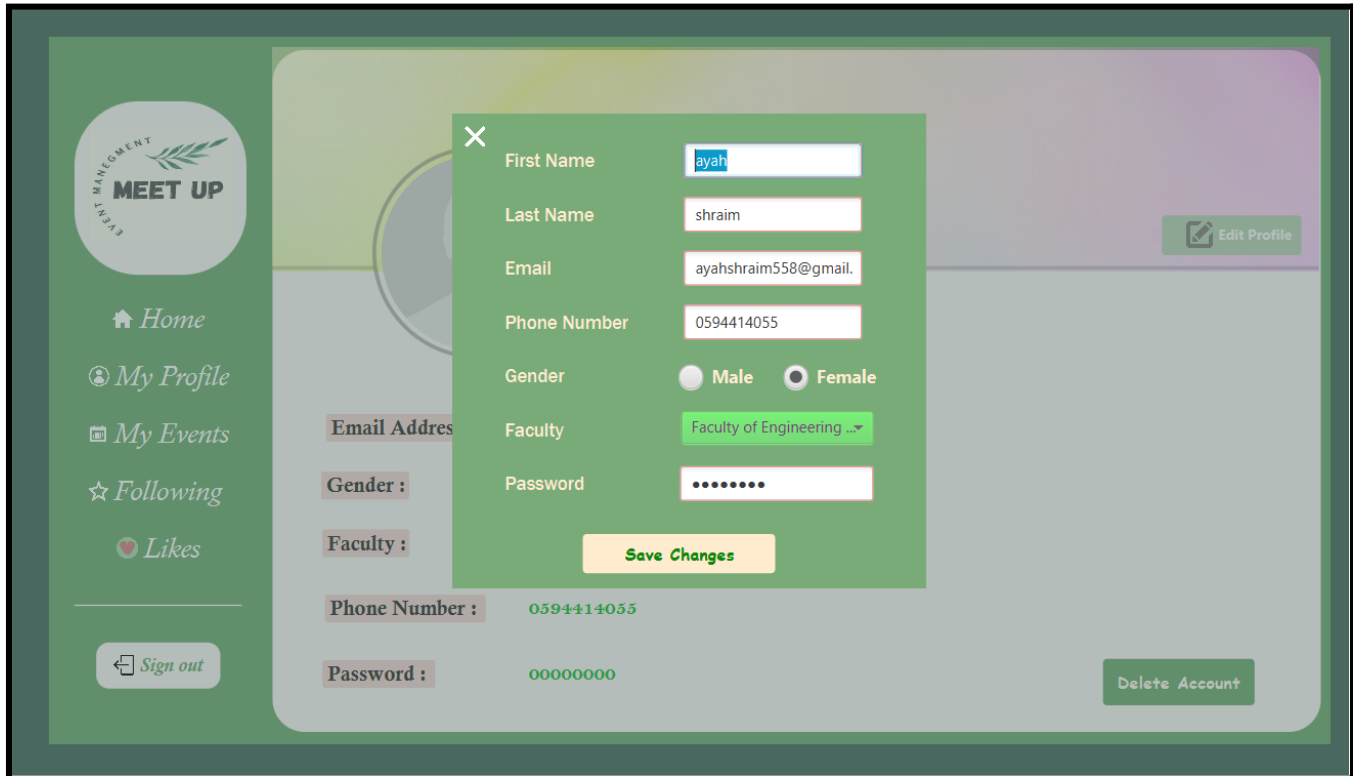


if the user clicks the home button , the application will open the home page again .

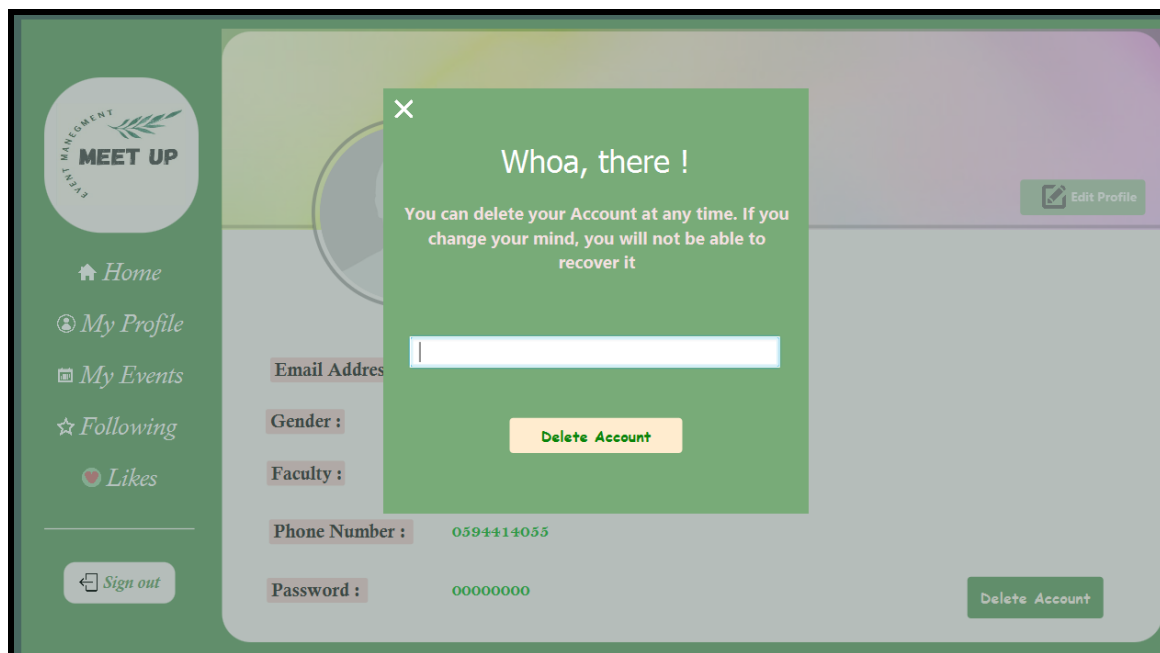
Now from the main buttons in the left , if user click My Profile , A page containing his information will be open



If user click edit profile button , he will be able to see any of his information and update them :

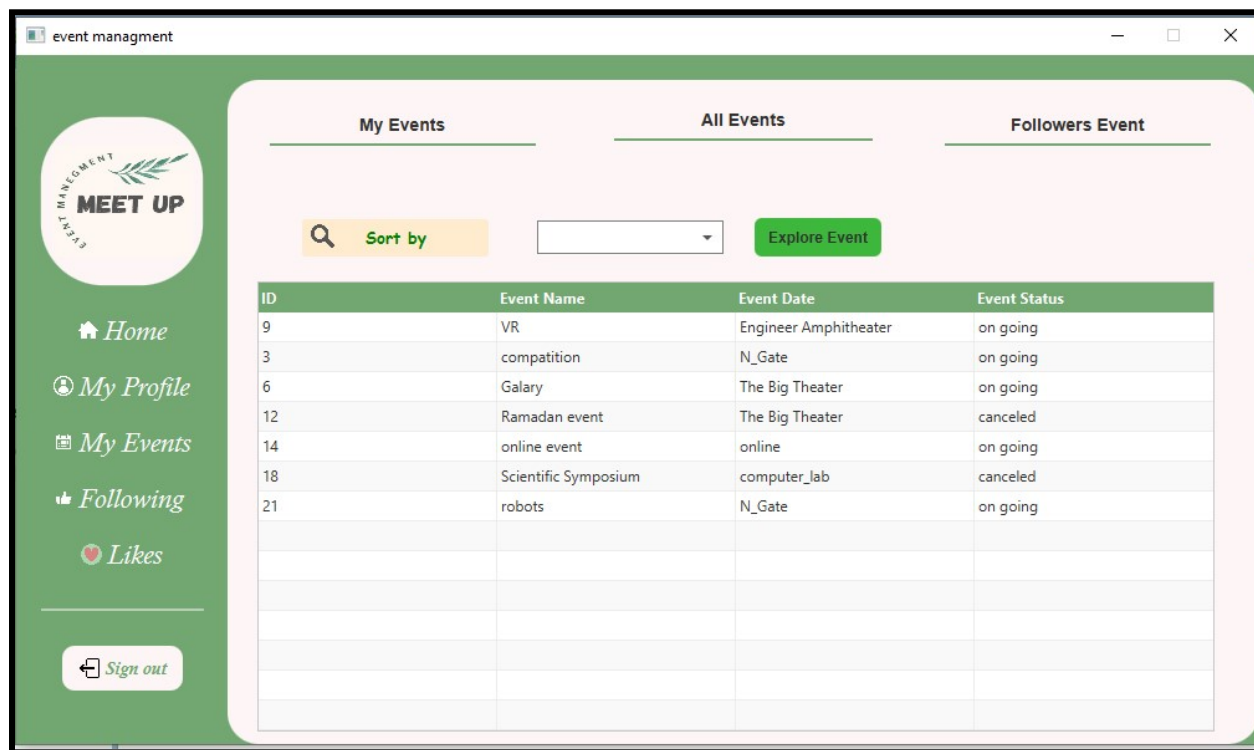


if user git out from this page , and click to delete button from his profile , then this screen will appear and asks about password, if given right the application will end , and user have to register again to inter the application .



When User clicks My Events , he can view a table of events and can sort them according to list choice .

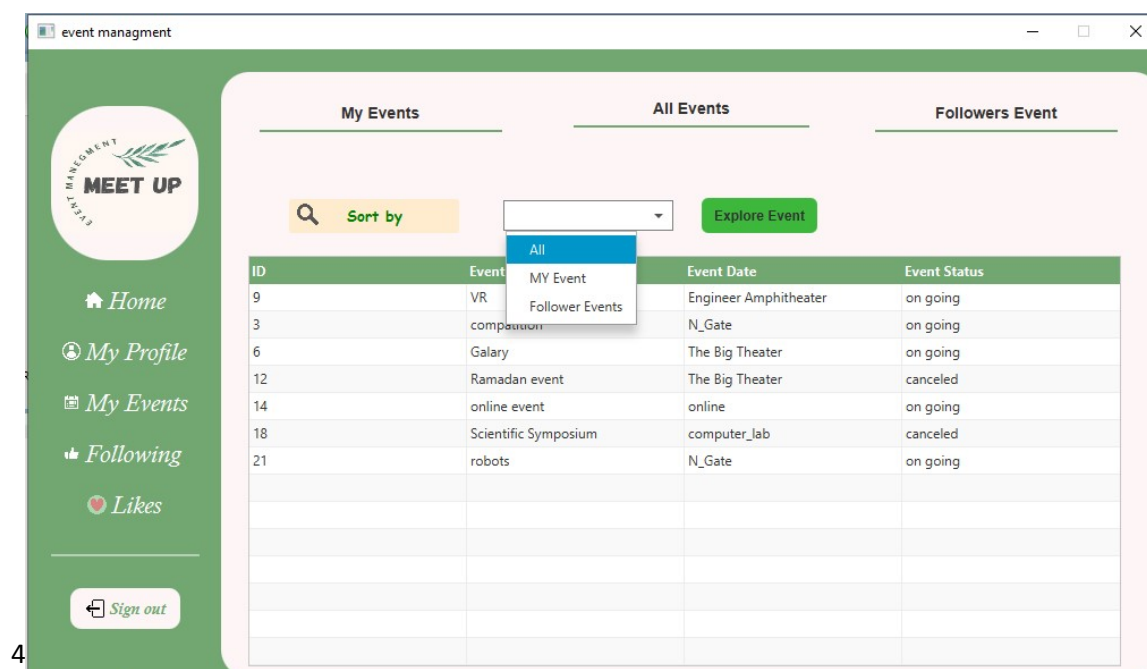
by default it display all events in the application

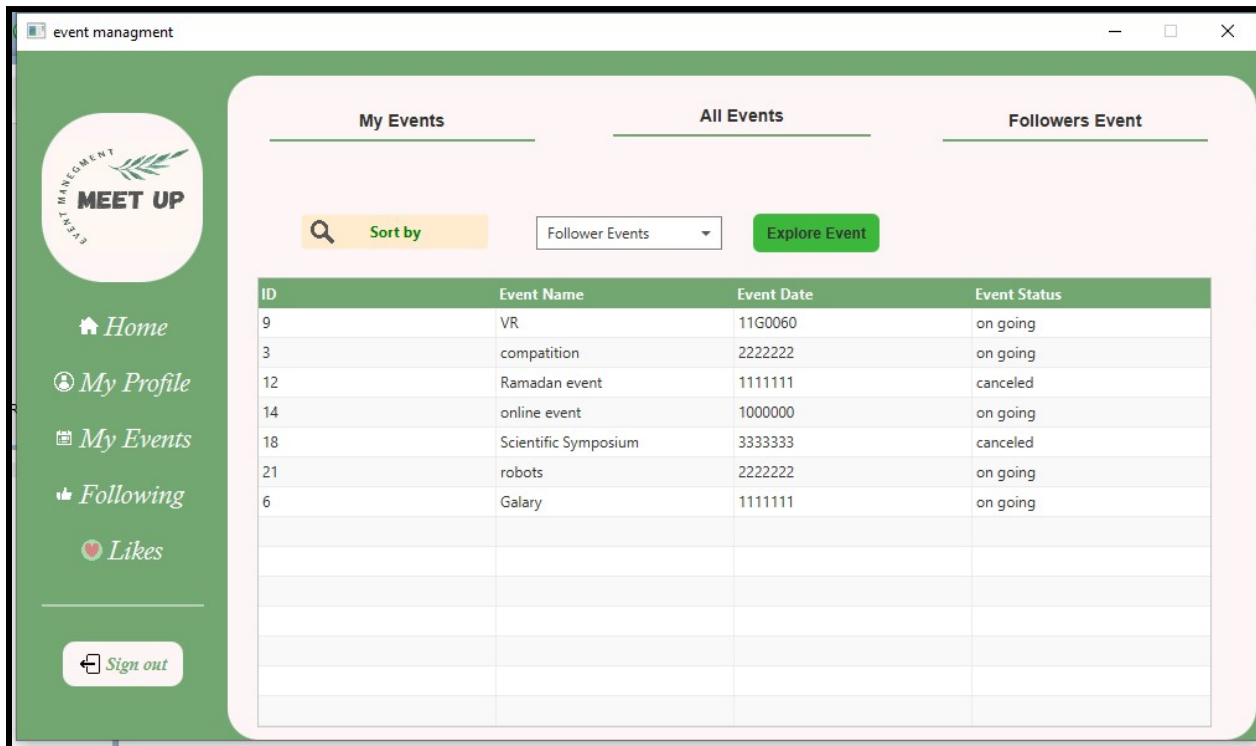


From list , user can select what you want to see

Support he clicked followers :

followers events will be shown





If the user selects an event from the table and clicks explore , the view event page will open to him . if he choose ramadan event for example , this will open to him :



Conclusion :

This application solves the problem of can't manage events easily by organizations and students not knowing about them so missed the registration .It helps organizing events so that students can reach them , join and control registration and feedback .

References :

- lecture notes and lecture videos
- youtube
- geeks for geeks
- stack overflow
- oracle sql documentation from the official website
- JetBrains documentation from the official website (IntelliJ documentation)