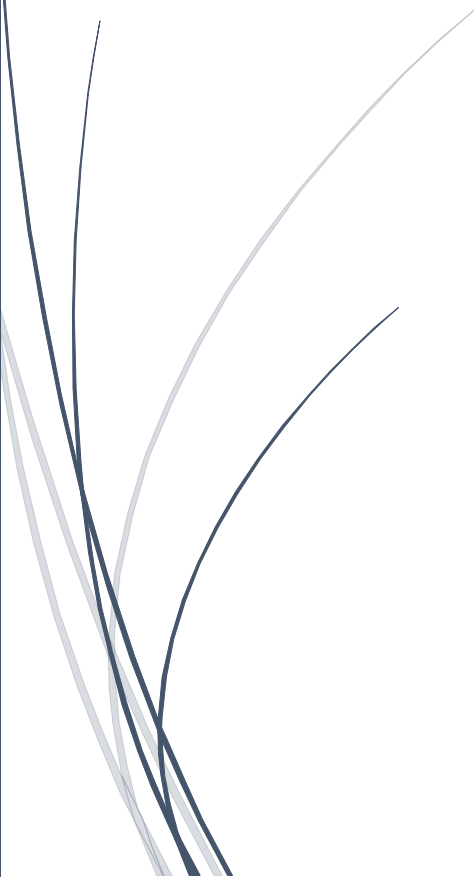


A dark blue vertical bar is on the left. A blue arrow points right from it, containing the year 2015.

2015

# STUDENT ACTIVITIES

DATABASE SYSTEMS CSE421

Several thin, curved lines in shades of blue and grey sweep upwards from the bottom left corner.

Name	Section
Reem Medhat Ernest	2
Rizk Tawfik Rizk	2
Fady Fares Abdel Ahad	2
Sameh Mamdouh	2
Mark Magdy Antoun	2
Ahmed Mohamed Abdelmageed	1

## Table of Contents

Project description .....	3
Software used .....	3
ER Diagram.....	4
Assumptions.....	5
Relational Schema.....	6
Tables names and constrains .....	6
Campaign .....	6
campaign_location.....	7
committee.....	7
Member .....	7
Participant.....	7
Professor .....	8
registered_in.....	8
sa_committee .....	8
Sponsor .....	8
sponsored_by.....	9
student.....	9
student_activity .....	9
track .....	9
track_campaign.....	10
university.....	10
SQL Statements.....	11
Queries.....	11
activity.php .....	11
addCampaign.php .....	11
addMember.php .....	11
AddSA.....	11
campaigns.php .....	11
index.php .....	12
login.php .....	12
register.php.....	12
SA-cmd .....	12

Report .....	12
Insert .....	13
Admin-cmd.....	13
SA-cmd .....	13
Forms .....	14
Login.....	14
Index.....	14
Dashboard .....	15
Activities.....	15
Events.....	16
Student activity.....	17
Add new committee.....	18
Add new track .....	18
Add new member .....	19
Add campaign .....	20
Admin view .....	20
Add activity .....	20
Register the activity to a new location (university). .....	21
Generate reports.....	21

## Project description

It is required to design a database for student activities in a certain university to help students keep track of new student activities and their different committees and tracks and to help student activity supervisors enroll new students to their activities. And to help student affairs department to enroll new student activity in the university. It is also required to design a web application that uses this database.

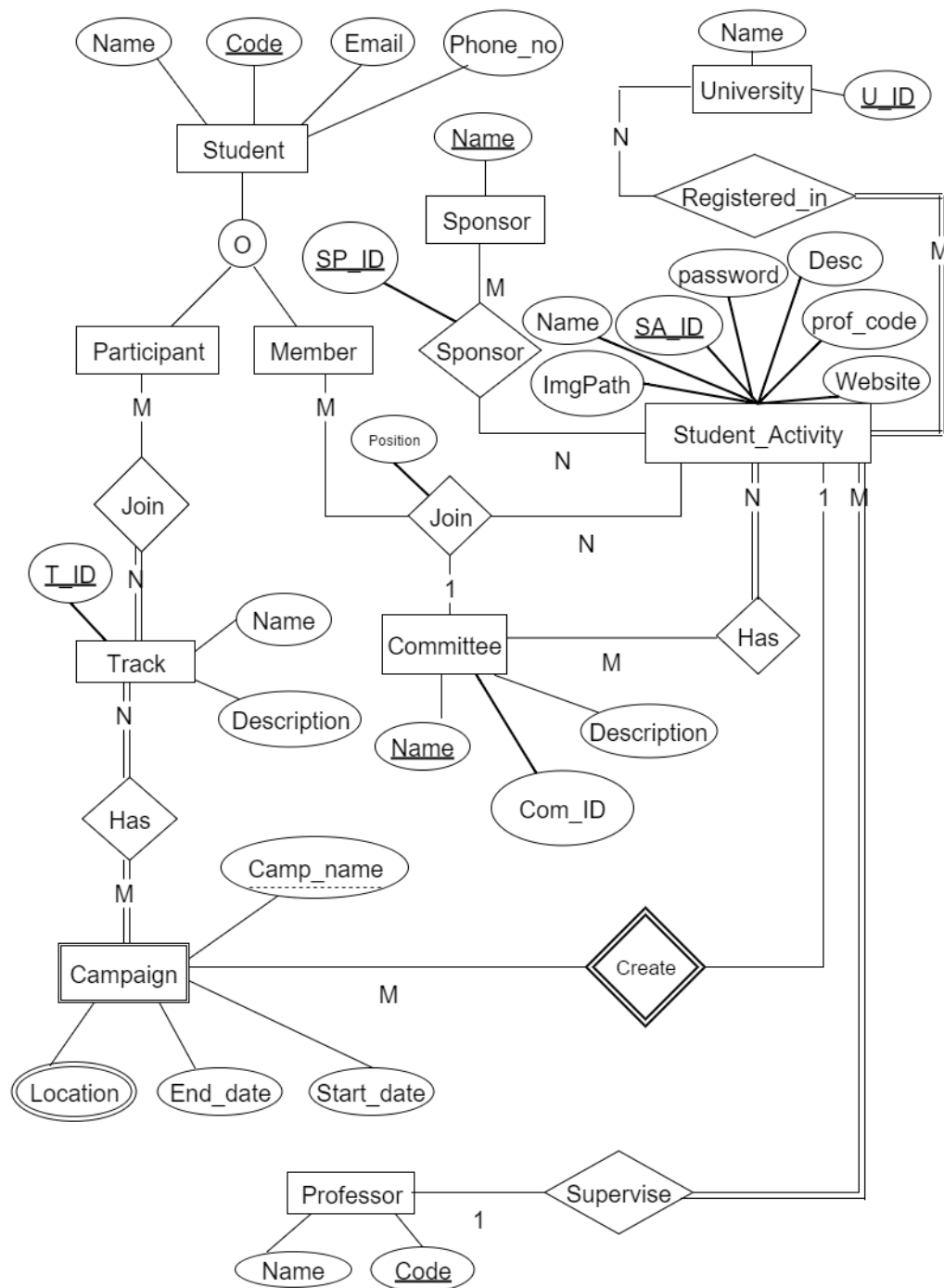
The web application has three views:

1. Student view: can view different student activities with their tracks and committees
2. Student activity head view: can enroll any participant or member to his activity, adding tracks and committees to his student activity.
3. Database admin: can enroll new student activities.

## Software used

- Xampp
- PhpmyAdmin
- Dreamwaver
- Illustrator
- Notepad++

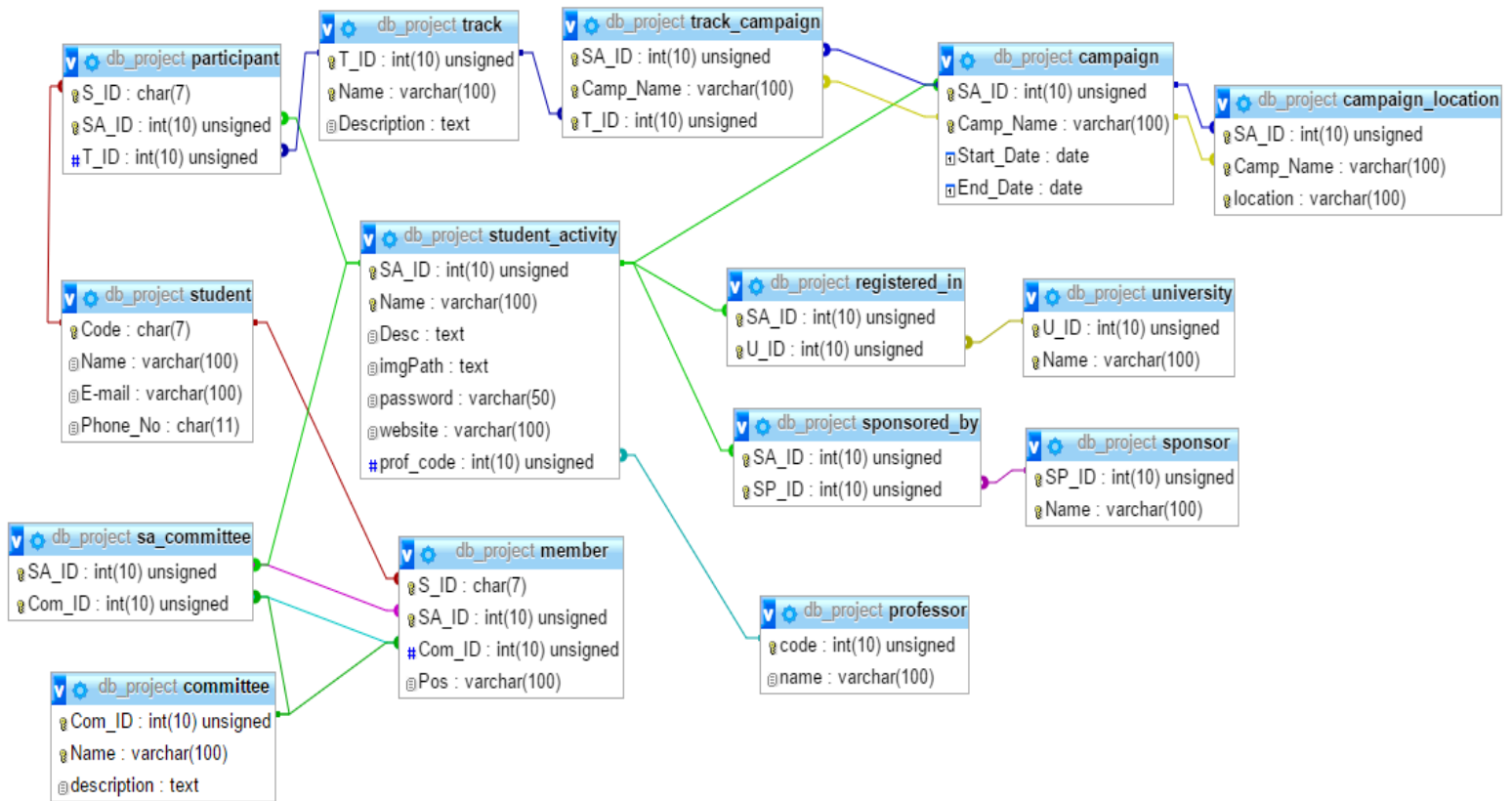
## ER Diagram



## Assumptions

- Student may enroll in one or more student Activities.
- Student activity must be in at least one university.
- Student activity must be tracked by only one Dr.
- Students who enroll in student activities must be participants or members or both.
- Participants & members of any student activity must be undergraduate.
- Each student activity has many committees.
- Member has to be in only one committee.
- Participant in a student activity has to be in only one track.
- Each student activity can make a campaign.
- Each campaign has many tracks.
- Each student activity may has one or more sponsor.
- Each campaign must have at least one location.
- Each committee has multiple positions.
- Each member has to be in only one position.

## Relational Schema



## Tables names and constraints

## Campaign

Column	Type	Attributes	Null	Default	Extra	Links to
SA_ID	int(10)	UNSIGNED	No			-> student_activity.SA_ID ON UPDATE CASCADE ON DELETE CASCADE
Camp_Name	varchar(100)		No			
Start_Date	date		No			
End_Date	date		No			

- PK(SA\_ID,Camp\_Name).

## campaign\_location

Column	Type	Attributes	Null	Default	Extra	Links to
SA_ID	int(10)	UNSIGNED	No			-> campaign.SA_ID ON UPDATE CASCADE ON DELETE CASCADE
Camp_Name	varchar(100)		No			-> campaign.Camp_Name ON UPDATE CASCADE ON DELETE CASCADE
location	varchar(100)		No			

- PK (SA\_ID,Camp\_Name,location).

## committee

Column	Type	Attributes	Null	Default	Extra	Links to
Com_ID	int(10)	UNSIGNED	No		auto_increment	
Name	varchar(100)		No			
description	text		Yes	NULL		

- PK(Com\_ID).

## Member

Column	Type	Attributes	Null	Default	Extra	Links to
S_ID	char(7)		No			-> student.Code ON UPDATE CASCADE ON DELETE CASCADE
SA_ID	int(10)	UNSIGNED	No			-> sa_committee.SA_ID ON UPDATE CASCADE ON DELETE CASCADE
Com_ID	int(10)	UNSIGNED	No			-> sa_committee.Com_ID ON UPDATE CASCADE ON DELETE CASCADE
Pos	varchar(100)		No			

- PK(S\_ID,SA\_ID).

## Participant

Column	Type	Attributes	Null	Default	Extra	Links to
S_ID	char(7)		No			-> student.Code ON UPDATE CASCADE ON DELETE CASCADE
SA_ID	int(10)	UNSIGNED	No			-> student_activity.SA_ID ON UPDATE CASCADE ON DELETE CASCADE
T_ID	int(10)	UNSIGNED	No			-> track.T_ID ON UPDATE CASCADE ON DELETE CASCADE

- PK(S\_ID,SA\_ID).



## Professor

Column	Type	Attributes	Null	Default	Extra	Links to
code	int(10)	UNSIGNED	No			
name	varchar(100)		No			

- PK(code).

## registered\_in

Column	Type	Attributes	Null	Default	Extra	Links to
SA_ID	int(10)	UNSIGNED	No			-> student_activity.SA_ID ON UPDATE CASCADE ON DELETE CASCADE
U_ID	int(10)	UNSIGNED	No			-> university.U_ID ON UPDATE CASCADE ON DELETE CASCADE

- PK(SA\_ID,U\_ID).

## sa\_committee

Column	Type	Attributes	Null	Default	Extra	Links to
SA_ID	int(10)	UNSIGNED	No			-> student_activity.SA_ID ON UPDATE CASCADE ON DELETE CASCADE
Com_ID	int(10)	UNSIGNED	No			-> committee.Com_ID ON UPDATE CASCADE ON DELETE CASCADE

- PK(S\_ID,SA\_ID).

## Sponsor

Column	Type	Attributes	Null	Default	Extra	Links to
SP_ID	int(10)	UNSIGNED	No			
Name	varchar(100)		No			

- PK(SP\_ID).

## sponsored\_by

Column	Type	Attributes	Null	Default	Extra	Links to
SA_ID	int(10)	UNSIGNED	No			-> student.activity.SA_ID ON UPDATE CASCADE ON DELETE CASCADE
SP_ID	int(10)	UNSIGNED	No			-> sponsor.SP_ID ON UPDATE CASCADE ON DELETE CASCADE

- PK(SP\_ID,SA\_ID).

## student

Column	Type	Attributes	Null	Default	Extra	Links to
Code	char(7)		No			
Name	varchar(100)		No			
E-mail	varchar(100)		No			
Phone_No	char(11)		Yes	NULL		

- PK(code).

## student\_activity

Column	Type	Attributes	Null	Default	Extra	Links to
SA_ID	int(10)	UNSIGNED	No		auto_increment	
Name	varchar(100)		No			
Desc	text		Yes	NULL		
imgPath	text		Yes	NULL		
password	varchar(50)		No			
website	varchar(100)		Yes	NULL		
prof_code	int(10)	UNSIGNED	No			-> professor.code ON UPDATE RESTRICT ON DELETE RESTRICT

- PK(SA\_ID).

## track

Column	Type	Attributes	Null	Default	Extra	Links to
T_ID	int(10)	UNSIGNED	No		auto_increment	
Name	varchar(100)		No			
Description	text		No			

- PK(T\_ID).

### track\_campaign

Column	Type	Attributes	Null	Default	Extra	Links to
SA_ID	int(10)	UNSIGNED	No			-> campaign.SA_ID ON UPDATE CASCADE ON DELETE CASCADE
Camp_Name	varchar(100)		No			-> campaign.Camp_Name ON UPDATE CASCADE ON DELETE CASCADE
T_ID	int(10)	UNSIGNED	No			-> track.T_ID ON UPDATE CASCADE ON DELETE CASCADE

- PK(SA\_ID,Camp\_Name,T\_ID).

### university

Column	Type	Attributes	Null	Default	Extra	Links to
U_ID	int(10)	UNSIGNED	No		auto_increment	
Name	varchar(100)		No			

- PK(U\_ID).

## SQL Statements

### Queries

#### activity.php

- ```
SELECT `student`.`Name` as SName,`Code`,`E-mail`,`Phone_No`,`committee`.`Name`  
as CName,`Pos`  
FROM `student`,`committee`,`member`  
WHERE `committee`.`Com_ID`=`member`.`Com_ID` AND `student`.`Code`=`member`.`S_ID` AND  
`member`.`SA_ID`=$SA_ID
```
- 
- ```
SELECT `campaign`.`Camp_Name`,`Start_Date`,`End_Date`,`location`  
FROM `campaign`,`campaign_location`  
WHERE `campaign`.`Camp_Name`=`campaign_location`.`Camp_Name` AND  
`campaign`.`SA_ID`=$SA_ID
```
- 
- ```
SELECT COUNT(*) AS total  
FROM `campaign`;  
WHERE `SA_ID`=$SA_ID
```
- 
- ```
SELECT COUNT(*) AS total  
FROM `member`  
WHERE `SA_ID`=$SA_ID
```

#### addCampaign.php

- ```
SELECT *  
FROM `track`
```

#### addMember.php

- ```
SELECT `committee`.`Com_ID`,`Name`  
FROM `committee`,`sa_committee`  
WHERE `committee`.`Com_ID`=`sa_committee`.`Com_ID` AND  
`SA_ID`=".$_SESSION['SA_admin']
```

#### AddSA

- ```
SELECT `code`,`name`  
FROM `professor`
```
- 
- ```
SELECT *  
FROM `university`
```
- 

#### campaigns.php

- ```
SELECT  
student_activity.SA_ID,student_activity.Name,campaign.Camp_Name,campaign_location.locati
```

```

on,campaign.Start_Date,campaign.End_Date,student_activity.imgPath FROM
`student_activity`,`campaign`,`campaign_location` WHERE
`student_activity`.`SA_ID`=`campaign`.`SA_ID` AND
`campaign`.`SA_ID`=`campaign_location`.`SA_ID` AND
`campaign`.`Camp_Name`=`campaign_location`.`Camp_Name`

```

#### index.php

- SELECT `SA\_ID`, `Name`, `imgPath` FROM `student\_activity` ORDER BY RAND() LIMIT 3
- 
- SELECT  
student\_activity.SA\_ID,student\_activity.Name,campaign.Camp\_Name,campaign\_location.locati  
on,campaign.Start\_Date,campaign.End\_Date,student\_activity.imgPath FROM  
`student\_activity`,`campaign`,`campaign\_location` WHERE  
`student\_activity`.`SA\_ID`=`campaign`.`SA\_ID` AND  
`campaign`.`SA\_ID`=`campaign\_location`.`SA\_ID` AND  
`campaign`.`Camp\_Name`=`campaign\_location`.`Camp\_Name` ORDER BY RAND() LIMIT 3

#### login.php

- SELECT `SA\_ID` FROM `student\_activity` WHERE `Name`=' \$user' AND `password`=' \$pass'

#### register.php

- SELECT `Name`,`SA\_ID` FROM `student\_activity`
- SELECT `name`,`U\_ID` FROM `university`

#### SA-cmd

- SELECT `Code` FROM `student` WHERE `Name` = '\$student'
- SELECT `Com\_ID` FROM `committee` WHERE `Name` = '\$com'
- SELECT `Com\_ID` FROM `committee` WHERE `Name`=' \$comname'

#### Report

- SELECT COUNT(\*) as total "  
FROM `student`
- DROP VIEW IF EXISTS `students\_in\_activities`  
CREATE VIEW `students\_in\_activities` AS "  
(SELECT `S\_ID`,`SA\_ID` FROM `member`) UNION (SELECT DISTINCT `S\_ID`,`SA\_ID` FROM  
`participant` )
- SELECT COUNT(DISTINCT `S\_ID`) as total "  
FROM `students\_in\_activities`

- SELECT COUNT(DISTINCT `S\_ID`) as total "  
FROM `member`
- 
- SELECT COUNT(DISTINCT `S\_ID`) as total "; FROM `participant`
- SELECT COUNT(\*) as total "  
FROM `student\_activity`
- SELECT `SA\_ID`, COUNT(\*) as total "  
FROM `students\_in\_activities` "  
GROUP BY `SA\_ID`
- SELECT `Name`  
FROM `student\_activity`  
WHERE `SA\_ID` = \$sa\_id

## Insert

### Admin-cmd

- INSERT INTO `student\_activity`(`SA\_ID`, `Name`, `Desc`, `imgPath`, `password`, `website`, `prof\_code`) VALUES (NULL, '\$name', '\$desc', NULL, '\$password', '\$web', '\$prof\_code')
- UPDATE `student\_activity` SET `imgPath` = "".\$uploadResult['value']."" WHERE `SA\_ID` = \$index
- INSERT INTO `registered\_in`(`SA\_ID`, `U\_ID`) VALUES ('\$index', '\$uni')
- "INSERT INTO `db\_project`.`registered\_in`(`SA\_ID`, `U\_ID`) VALUES ("".\$\_POST['st\_act']. "", "".\$\_POST['univ']. "")"

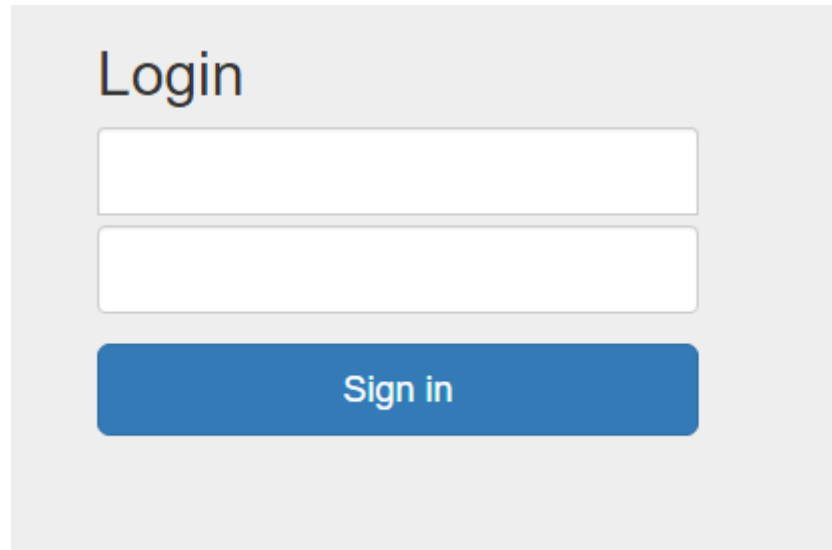
### SA-cmd

- INSERT INTO `member`(`S\_ID`, `SA\_ID`, `Com\_ID`, `Pos`) VALUES ('\$code', "".\$\_SESSION['SA\_admin']. "", '\$com', '\$pos')
- INSERT INTO `track`(`T\_ID`, `Name`, `Description`) VALUES (NULL, '\$tname', '\$description')
- INSERT INTO `committee`(`Com\_ID`, `Name`, `Description`) VALUES (NULL, '\$comname', '\$description')
- INSERT INTO `sa\_committee`(`SA\_ID`, `Com\_ID`) VALUES ("".\$\_SESSION['SA\_admin']. "", '\$id')
- INSERT INTO `campaign`(`SA\_ID`, `Camp\_Name`, `Start\_Date`, `End\_Date`) VALUES ("".\$\_SESSION['SA\_admin']. "", '\$name', '\$start', '\$end')
- INSERT INTO `campaign\_location`(`SA\_ID`, `Camp\_Name`, `location`) VALUES
- "INSERT INTO `track\_campaign`(`SA\_ID`, `Camp\_Name`, `T\_ID`) VALUES

## Forms

Our website is built with simple, elegant and responsive design to view it on several devices.

## Login

A login form with a light gray background. At the top, the word "Login" is written in a large, dark font. Below it are two white input fields with thin gray borders, one for the username and one for the password. At the bottom is a blue button with rounded corners and the text "Sign in" in white.

- Login is required for student activity head (with registered username and password inserted by the admin) and database admin with fixed username: Admin and password: 0159.
- Student doesn't need to login.
- Admin login by going directly to "login.php" page.
- Student activity head will be initially viewing student view and can be redirected to the login page by pressing on "I'm Student Activity" button.

## Index

We know that your time is valuable so with the aid of navigation bar you can go anywhere through the website easily and in no time.

- It's split into 3 main parts :
  - Dashboard: where you can see all activities and events in a glance and you can press more to see all.
  - Activities: where you can see all the activities available
  - Events: where you can see all events posted by any student activity.
  - It's mainly for the student view and is used in other views as well.

## Dashboard

The screenshot shows the ESA (Egyptian Student Activities) Dashboard. The top navigation bar is blue with the ESA logo, a search bar, and a button labeled "I'M Student Activity". The left sidebar has three items: "Dashboard" (selected), "Activites", and "Events". The main content area is divided into two sections: "Activites" and "Events".

**Activites Section:**

- Meca: Logo with text "Our limits tend to infinity".
- ACES: Logo with text "THE ANNUAL CONFERENCE FOR STUDENTS AND ACADEMICS".
- Catalysis: Logo with text "let's accelerate!".
- More..

**Events Section:**

- Meca Academy 2.0: Meca logo, Ain Shams University, 12/5/2015 - 25/5/2015.
- ACES Academy 2.0: ACES logo, Ain Shams University, 12/5/2015 - 25/5/2015.
- Catalysis lab: Catalysis logo, Ain Shams University, 12/5/2015 - 25/5/2015.
- More..

- Pressing on "I'm student activity" will redirect you to the login page.
- Pressing on any event or activity will redirect you to the details page.

## Activities

The screenshot shows the ESA Activities page. The top navigation bar is blue with the ESA logo, a search bar, and a button labeled "I'M Student Activity". The left sidebar has three items: "Dashboard", "Activites" (selected), and "Events". The main content area is titled "Activites" and displays a grid of activity cards.


**Activites Section:**

- Meca: Logo with text "Our limits tend to infinity".
- ACES: Logo with text "THE ANNUAL CONFERENCE FOR STUDENTS AND ACADEMICS".
- Catalysis: Logo with text "let's accelerate!".
- Catalysis: Logo with text "let's accelerate!".
- Meca: Logo with text "Our limits tend to infinity".
- ACES: Logo with text "THE ANNUAL CONFERENCE FOR STUDENTS AND ACADEMICS".
- Catalysis: Logo with text "let's accelerate!".
- Catalysis: Logo with text "let's accelerate!".

- Pressing on any activity will redirect you to the details page.



## Events

 ESA  
Supporting Student's Activities

I'M Student Activity


Dashboard  
Activites  
Events

### Meca

Meca

meca

5-12-2015 - 27-12-2015

  
Our friends know to enjoy

15 80


### Members

| Member Name | Position  | Committee      |
|-------------|-----------|----------------|
| Fady        | President | -              |
| Reem        | Head      | Arts and Media |
| Rizk        | Member    | PR             |

### Events

| Campagin Name | Start Date | End Date  | Locations                                                          |
|---------------|------------|-----------|--------------------------------------------------------------------|
| Meca Academy  | 55/5/2015  | 55/5/2015 | Abu basha,Cairo,Egypt<br>Attaba ,Cairo,Egypt<br>Abasya,Cairo,Egypt |


- Pressing on any event will redirect you to the details page.


**ESA**  
إدارة شؤون الطلبة

Meca

Dashboard  
Activites  
Events

Meca  
meca  
5-12-2015 - 27-12-2015



15 80

Functions

+ New Committee

+ New Track

Members

+ New Member

| Member Name | Position  | Committee      | Code  | Email         | Phone       |  |
|-------------|-----------|----------------|-------|---------------|-------------|--|
| Fady        | President | -              | 11500 | Fady@meca.com | 01111111111 |  |
| Reem        | Head      | Arts and Media | 11552 | reem@meca.com | 01112541111 |  |
| Rizk        | Member    | PR             | 11540 | Rizk@meca.com | 01111551111 |  |

Event

+ New Event


| Campagin Name | Start Date | End Date  | Locations                                    | Add Participant |
|---------------|------------|-----------|----------------------------------------------|-----------------|
| Meca Academy  | 55/5/2015  | 55/5/2015 | Abu basha,Cairo,Egypt<br>Attaba ,Cairo,Egypt |                 |

## Student activity

This is your activity home page and you can easily find all members and events and add or delete any of them.

- By pressing on “+New Committee” you will be redirected to special form to add your committee details.
- By pressing on “+New track” you will be redirected to special form to add your track details.
- By pressing on “+New Member” you will be redirected to special form to add your member details.
- By pressing on “+New Event” you will be redirected to special form to add your event details.
- Notice that 2 new buttons are added to your view:
  - Home button: you can press it anytime to get back to this page.
  - Logout button: so that you end this session.

## Add new committee



Search...

HomeLogout

DashBoard

Activities

Events

Activity Admin


Add Committee

Committee Name

Description

Add Committee

## Add new track



Search...

HomeLogout

DashBoard

Activities

Events

Activity Admin

Add Track

Track

Description

Add Track

## Add new member

The screenshot shows the 'Add Member' form within the 'Activity Admin' section of the ESA (European Student Activity) system. The interface has a blue header with the ESA logo, a search bar, and links for 'Home' and 'Logout'. A dark grey sidebar on the left contains links for 'DashBoard', 'Activities', and 'Events'. The main content area is titled 'Activity Admin' and 'Add Member'. The form itself is a light grey box containing three input fields: 'Name', 'Position', and 'Committee'. The 'Committee' field is a dropdown menu currently showing 'PR'. An orange 'Enroll' button is located at the bottom right of the form.

ESA  
European Student Activity

Search...

Home Logout

DashBoard  
Activities  
Events

Activity Admin

Add Member

Name

Position

Committee  
PR

Enroll

## Add new participant

The screenshot shows the 'Add Participant' form within the 'Activity Admin' section of the ESA (European Student Activity) system. The interface is identical to the previous one, with the same header, sidebar, and main content area. The form is titled 'Add Participant' and contains two input fields: 'Name' and 'Track'. The 'Track' field is a dropdown menu currently showing 'PR'. An orange 'Enroll' button is located at the bottom right of the form.

ESA  
European Student Activity

Search...

Home Logout

DashBoard  
Activities  
Events

Activity Admin

Add Participant

Name

Track  
PR

Enroll

- You should select one of the committees associated by your student activity.

## Add campaign

The screenshot shows the 'Add Campaign' form within the 'Activity Admin' section. The form includes a 'Campaign Name' text input, a 'Tracks' dropdown menu set to 'Embedded', a 'List of locations' text input with a note 'Separate by enter.', and a 'Date' range selector with 'to' in between. An 'Add Campaign' button is at the bottom right. The left sidebar contains 'DashBoard', 'Activities', and 'Events'. The top header has the 'ESA' logo, a search bar, and 'Home' and 'Logout' links.

- You should insert each location separated by enter.

## Admin view


### Add activity

The screenshot shows the 'Add Activity' form within the 'Admin Panel'. The form includes a 'Name' text input, a 'Password' text input, a 'Logo' section with a 'Choose File' button and 'No file chosen' text, a 'Generate Password' button, a 'Professor' dropdown menu set to 'Ahmed', a 'University' dropdown menu set to 'Ain Shams', and a 'Website' text input. A 'Create' button is at the bottom right. The left sidebar contains 'Admin Panel', 'Add Activity', 'Register in University', and 'Reports'. The top header has the 'ESA' logo, a search bar, and a 'Logout' link.

- You must enter the name and a password for the new activity.
- You can use "Generate Password" to give you random password.

- You should upload your logo
- You must select one professor and initial location for the activity.
- You can add a website link.

Register the activity to a new location (university).



Search...

Logout

Admin Panel

Add Activity

Register in University

Reports

## Admin Panel

### Register Activity

Student Activity

Aces

University

Ain Shams

Link

Generate reports

