

# Chapter 4

## System Implementation

## 4.1 Web Portal (Front-end & Back-end):-

### 4.1.1 Authentications:-

#### What is Authentication?

In My School System we are Using Authentication to determining whether someone or something is, in fact, who or what it declares itself to be. Authentication technology provides access control for systems by checking to see if a user's credentials match the credentials in a database of authorized users or in a data authentication server.

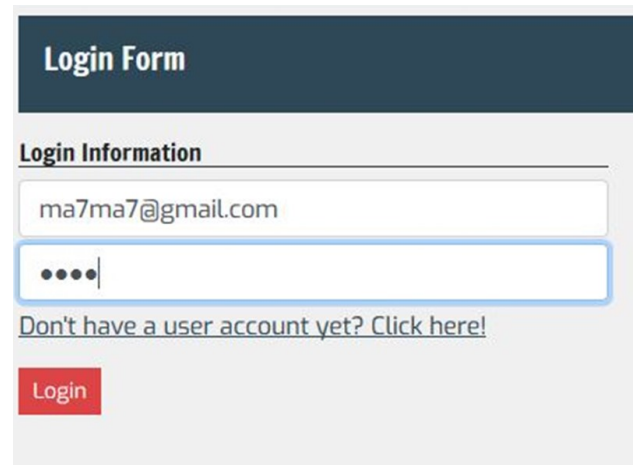
#### Login

All users accounts created for the System integration must be assigned a role with the following permission:

- ◆ Email = User Account created for integration component
- ◆ Password = User password

#### Login occurs for 3 types of users:-

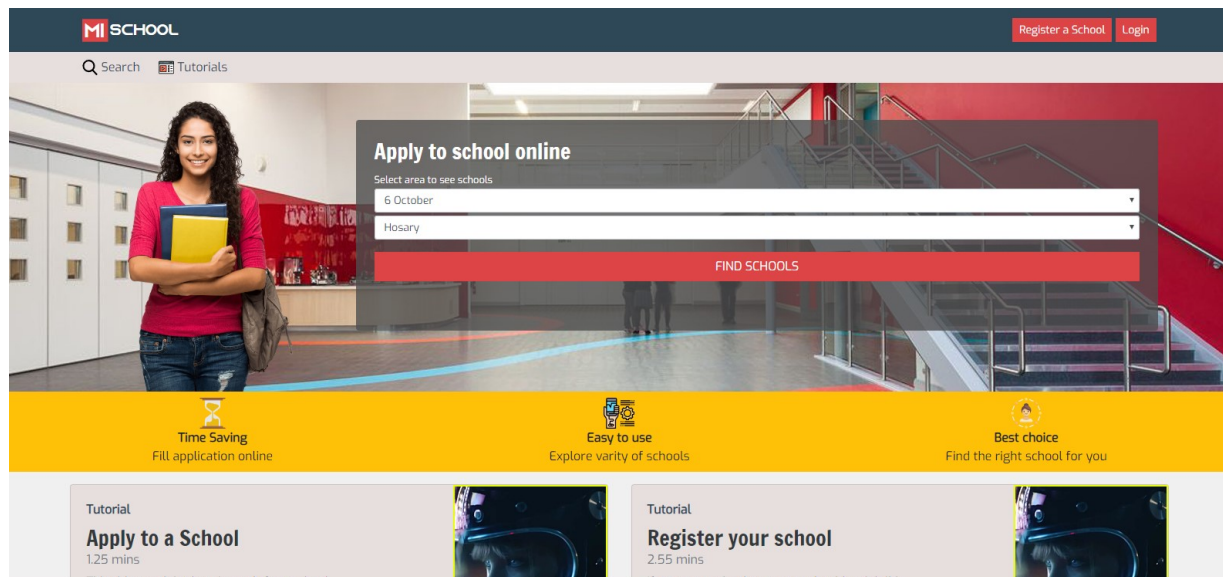
1. User
2. School admin
3. System admin



The screenshot shows a 'Login Form' with a dark blue header. Below the header is a section titled 'Login Information'. It contains two input fields: the first for email, with 'ma7ma7@gmail.com' entered, and the second for password, represented by dots. Below the password field is a link that says 'Don't have a user account yet? Click here!'. At the bottom of the form is a red 'Login' button.

#### Logout

Logging out means to end access to an account in the website. Logging out informs website that the current user wishes to end the login session. You will be redirected to the home page once you do logout of your account.



## Authentication System Code:-

Function	Code
Login	<pre>if (\$row['type'] == "user"){     // create user object and assign values to it     \$userOBJ = new User();     \$userOBJ-&gt;userID=\$row['user_id'];     \$userOBJ-&gt;fname=\$row['fname'];     \$userOBJ-&gt;lname=\$row['lname'];     \$userOBJ-&gt;type=\$row['type'];     \$userOBJ-&gt;country=\$row['country'];     // open account session and assign obj to it     session_start();     \$_SESSION["account"] = \$userOBJ;     // go to user profile page     \$url="user-profile.php";     header( "Location: \$url" ); }</pre>

### Description:-

When you enter email and password in login form this function checks the type of user and opens a session then decide which page to be redirected to with respect to type of user.

**Class:** Account

**Parameters:** mail, pass

**Return value:** None

**Language:** PHP

Function	Code
Logout	<pre>session_start(); session_unset(); session_destroy();</pre>

### Description:-

When you are logged in as a user, school administrator or a system administrator you need to keep your data and functionalities safe from misuse, so this function clears the account session and redirect to home page.

**Class:** Account

**Parameters:** None

**Return value:** None

**Language:** PHP

## 4.1.2 Registration:-

### What is Registration?

In My School System we are using signup form that functions as one of the primary data collection methods which allows for the collection of the essential pieces of information used for creation of profile information and for providing means of login into an account.

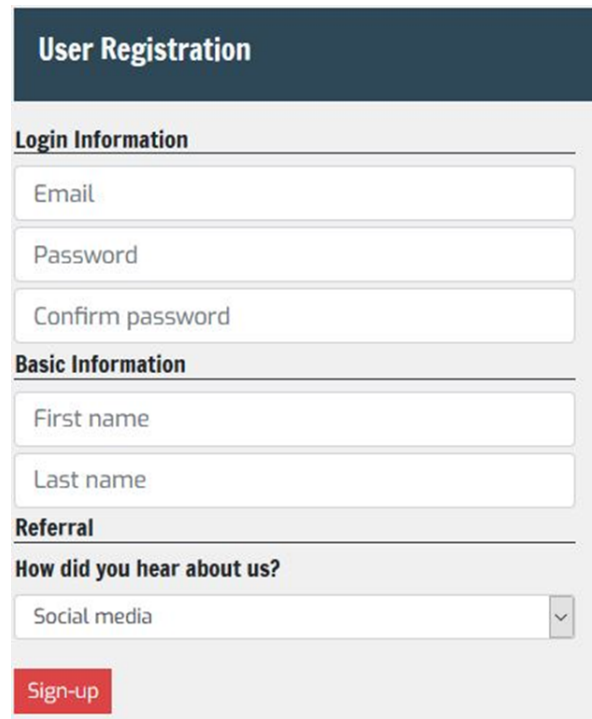
### User Registration:-

This section is concerned in the process of registration in the Website for the Users, the automatic system that registers automatically will have his Verified account for user after passing this phase and fill all the requirements parts and terms.

In our system Registered users provide some sort of credentials such as

- ◆ e-mail address
- ◆ password
- ◆ Basic Information's (First Name, Last Name)

to the system in order to prove their identity.



The User Registration form is divided into several sections. The 'Login Information' section includes fields for Email, Password, and Confirm password. The 'Basic Information' section includes fields for First name and Last name. The 'Referral' section includes a dropdown menu for 'How did you hear about us?' with 'Social media' selected. A red 'Sign-up' button is located at the bottom of the form.

### School Registration:-

School registration Form module which enables Schools to facilitate online registration and payment processing by Visa (Credit Card) and more. From the online enrolment Each school will have an Account and will be registered in the System.

**In our system Registered School provide some sort of credentials such as:-**

Contact information

1. First name
2. Last name
3. Job title
4. Mobile Phone

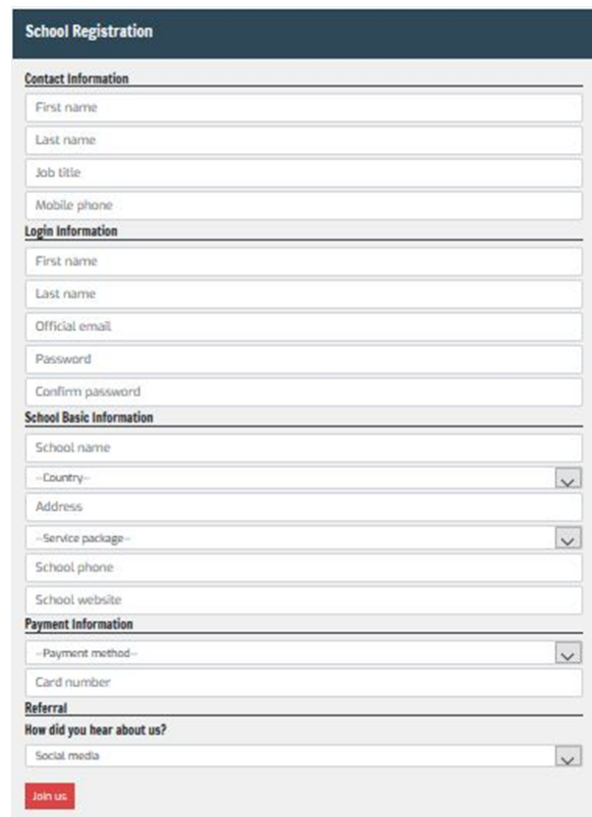
Login Information

1. Email
2. Password

School Basic Information

1. School name
2. Country
3. Address
4. Service Package
5. School Phone
6. School Website

Payment Information



The School Registration form is divided into several sections. The 'Contact Information' section includes fields for First name, Last name, Job title, and Mobile phone. The 'Login Information' section includes fields for First name, Last name, Official email, Password, and Confirm password. The 'School Basic Information' section includes fields for School name, Country (dropdown), Address, Service package (dropdown), School phone, and School website. The 'Payment Information' section includes a dropdown for Payment method and a field for Card number. The 'Referral' section includes a dropdown for 'How did you hear about us?' with 'Social media' selected. A red 'Join us' button is located at the bottom of the form.

## Registration System Code:-

Function	Code
signupUser	<pre>\$sql = "INSERT INTO user values (null)"; // only 1 identity attribute execQuery(\$conn,\$sql); \$sql = "select LAST_INSERT_ID()"; \$resultNum = selectQuery(\$conn,\$sql)-&gt;fetchColumn(); // id //echo '&lt;script type="text/javascript"&gt;alert("\$.resultNum.")&lt;/script&gt;'; // make new user account \$sql = "insert into account (fname,lname,email,password,type,isactive,country,referral,user_id ) values (\$.fname.", ".\$lname.", ".\$mail.", ".\$pass.", 'user', 1, ".\$country.", ".\$referral.", ".\$resultNum.)"; execQuery(\$conn,\$sql);</pre>

### Description:-

When user enter signup information for a user account this functions checks if fields are empty or not and make other validations on the information to make sure its valid data to be entered into database. The insert is then executed in the database.

**Class:** Account

**Parameters:** mail, pass, pass2, fname, lname, country, referral

**Return value:** None

**Language:** PHP

Function	Code
signupSchool	<pre>// insert school \$sql="insert into school(school_name,service_package,address) values (\$.sname.", ".\$service.", ".\$address.)"; execQuery(\$conn,\$sql);  // insert into account \$sql = "insert into account (fname,lname,email,password,type,isactive,country,referral,school_id) values (\$.fname.", ".\$lname.", ".\$mail.", ".\$pass.", 'school', 1, ".\$country.", ".\$referral.", ".\$resultNum.)"; execQuery(\$conn,\$sql);</pre>

### Description:-

When school enter signup information for a school account this functions checks if fields are empty or not and make other validations on the information to make sure its valid data to be entered into database. The insert is then executed in the database and school wait for signup acceptance from system administrator.

**Class:** Account

**Parameters:** cfname, clname, job, mphone, fname, lname, mail, pass, pass2, sname, country, address, service, sphone, website, method, card, referral

**Return value:** None

**Language:** PHP