



ON -GO EDUCATION SITE

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ABSTRACT

This article contains in current scenario with nuclear families how do parents keep a watch on children, and monitors their progress, made a web site to help to keep them fully aware of each n every development in social and academics under name of So- coaching.

INTRODUCTION

So-Coaching the coaching institute doesn't have any specialized website. Currently the institute faces many problems without a website. The students are hardly get to know about coaching institute. The Coaching Institute is hardly possible to showcase achievements, notices, articles, admission procedure and so on.

As technology is advanced internet is becoming ever popular. Website has become an essential part. Often website of an institution is used as major requirements to rate it. Thus having a website is essential for any major organization. As one of the popular Coaching Institute it needs to have a useful and stunning website to showcase the institute and use as a medium to interact with students, teachers and others. Notice, research works, club activities, digital local library etc. can be the major advantages of a website.

The important objectives of this project given below:

- Provide full overview of Coaching Institute
- Showcase achievements, research, club & other activities.
- Proper Resource Management.
- Provide access to study materials and Courses.
- To provide a proper registration channel/system to the new students.

To maintain all the accounts of the students in digital form from enrolment up to the end of the study. So we have explore the latest technologies in market for web development, narrowed A PHP framework is a platform that allows developers to develop web applications. The PHP frameworks allow developers to rapidly develop the web apps. That is the reason why every web application development company choose PHP frameworks for their web projects due to increasing demand for speedy time-to-market.

1. Back ground work

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application development company choose PHP frameworks for their web projects due to increasing demand for speedy time-to-market.

There are various PHP frameworks available-

Laravel

Symfony

CodeIgniter

CakePHP

And, the list goes on and on

1.1 Introduction about Laravel

But we comparatively studied between Laravel and symfony frameworks, which are the most popular PHP frameworks and decided on the basis of Research paper mentioned below and abstract given in it that which one is best:

Paper Name : A comparative study of laravel and symfony PHP frameworks

Author(s) : Majida Laaziri, Khaoula Benmoussa, Samira Khouliji, Kerkeb Mohamed Larbi, Abir El Yamami.

Year : February, 2019

About: “Laravel is better for large-scale Web projects that require faster delivery with fewer resources at the same time Symfony is better for complex applications at the enterprise level, and also requires developers with superior skills.”

On the basis of Research Paper “A comparative study of laravel and symfony PHP frameworks”. We concluded that as there is an immediate need for institute to have website and laravel is better for projects with quick delivery. So we chossed laravel is better. Now the question arises how do laravel works. We studied about laravel from the research paper and the abstract given in it and come to know how laravel works.

Paper Name : Implementation of Web Application using Laravel Framework.

Author(s) : Akash Jadhav, Rohit Jadhav & Shivganga Gavhane(Computer Engineering, Dr. D.

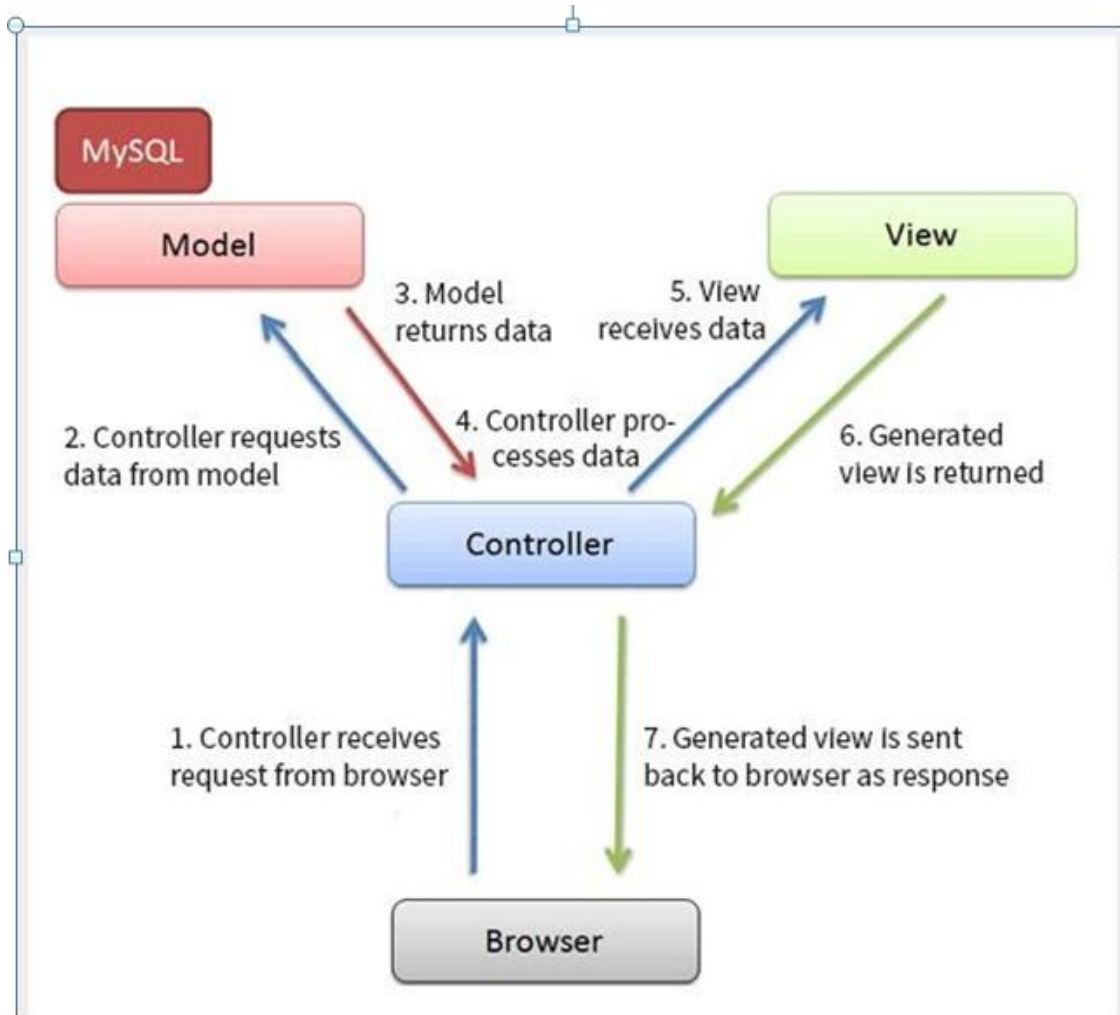
Y. Patil Institute of Engineering Management & Research,India).05,2017

“Laravel is most advanced and elegant PHP framework & it makes the development process simple. It processes non-business logic on its own that allows programmers to focus on business logic of an application. It has three interconnected parts called Model, View and Controller. Model consist of data and business logic. A view uses Laravel’s blade templating engine which works seamlessly with HTML for representation of information. Controller classes are used are used to organize the behavior of request handling logic. Related HTTP request handling logic can be grouped into controller class. With Eloquent ORM active record implementation is done for working with database. Each table in MySQL database has a corresponding model which is used to perform CRUD operations on it. Third party packages can be integrated easily into Laravel application by writing few artisan commands. These packages save a

tremendous amount of development time. Most of these packages are well tested, stable and available for free of cost. All the HTTP request sent to and from browser are handled by Controller. Model retrieves data from database and returns to the controller. Corresponding views are generated by representing this data and these views are sent back to the browser.”

PROPOSED WORK

Below given is the frame works of the model propped model works.

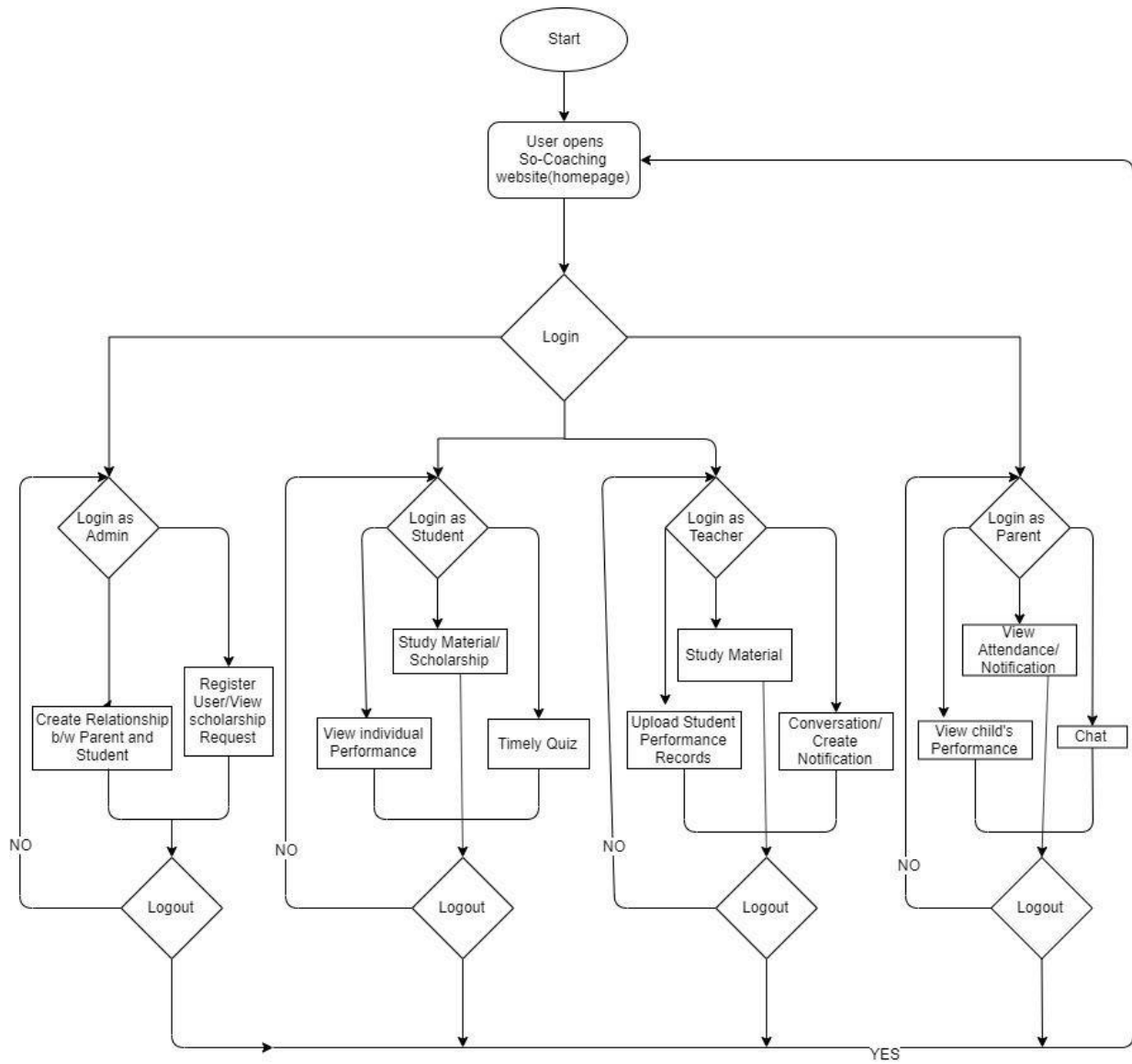


HOW MCV ARITECTURE WORKS

Figure 1: Propped framework of model

2. Diagrams and details

2.1 Flowchart here in this diagram we have given in a diagram form the flow of information from one screen to another , with starting point being the start to the log point



Implementation and system details

Software specification and implementation

Laravel Framework

It is a web application framework with expressive, elegant syntax. We believe development must be an enjoyable, creative experience to be truly fulfilling.

It aims to make the development process a pleasing one for the developer without sacrificing application functionality.

It is accessible, yet powerful, providing powerful tools needed for large, robust applications. A superb inversion of control container, expressive migration system, and tightly integrated unit testing support give you the tools you need to build any application with which you are tasked.

Features of Laravel Framework

Highly Secure Framework

Object-Oriented Library Accessibility

Seamless Database Migration

In-built Authentication & Authorization System

Simplified Mail Integration System

Cached Memory Integration for Better Performance

Easier Exception Handling

Better Handling of Security & Technical Vulnerabilities

Simplified URL Routing Configuration

4.1.2. Why do we used Laravel ?

Laravel is a framework for creating web applications with an easy to use syntax. The idea behind Laravel is that it makes common development tasks easy such as routing,

Authentication, sessions, and caching.

Artisan CLI

Artisan is the name of the command-line interface included with Laravel. It provides a number of helpful commands for use while developing application. It is driven by the powerful Symfony Console component.

Why do we use Artisan CLI?

Artisan has list of commands for various tasks in it but we have used commands for the following task :

Creating controllers and models

Creating database migration files and running migrations

Create providers, events, jobs, form requests etc.

Show routes

Session commands

Run Tinker

Create custom commands

Git Bash

Git Bash is an application for Microsoft Windows environments which provides an Emulation layer for a Git command line experience. Bash is an acronym for Bourne Again Shell. A shell is a terminal application used to interface with an operating system through written commands. Bash is a popular default shell on Linux and macOS. Git Bash is a package that installs Bash, some common bash utilities, and Git on a Windows operating system.

Visual Studio Code

Visual Studio Code is a source-code editor. It includes support for debugging, embedded

Git control and GitHub, syntax highlighting, intelligent code completion, snippets, and code refactoring. It is highly customizable, allowing us to change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.

4.4.1. Features of Visual Studio Code

1. Meet IntelliSense

Go beyond syntax highlighting and autocomplete with IntelliSense, which provides smart completions based on variable types, function definitions, and imported modules

2. Print statement debugging is a thing of the past

Debug code right from the editor. Launch or attach to your running apps and debug with

break point, call stacks, and an interactive console

3. Git commands built-in

Working with Git and other SCM providers has never been easier. Review diffs, stage files, and make commits right from the editor. Push and pull from any hosted SCM service

4. Extensible and customizable

Install extensions to add new languages, themes, debuggers, and to connect to additional

services. Extensions run in separate processes, ensuring they won't slow down our editor

5. Integrated terminal

VS Code provides an integrated terminal that facilitates the use of artisan and tinker for database migrations and also for other purposes that can be done in an instance with the help of the terminal.

Why do we use PHP?

PHP is a great option for many reasons some of them to use it in:

1. Fast Load Time – PHP results in faster site loading speeds. PHP codes runs much faster because it runs in its own memory space.

Database Flexibility – PHP is flexible for database connectivity. It can connect to several databases the most commonly used is the MySQL.

Less Expensive Software – In working with PHP, most tools associated with the program are open source software.

JavaScript(JS) : JavaScript is a logic-based programming language that can be used to modify website content and make it behave in different ways in response to a user's actions. Common uses for JavaScript include confirmation boxes, calls-to-action, and adding new identities to existing information.

Why do we used JavaScript(JS)? : JavaScript is a programming language that lets web developers design interactive sites. Most of the dynamic behaviour you'll see on a web page is thanks to JavaScript, which augments a browser's default controls and behaviours. We have used JavaScript(JS) for following task -

Creating Confirmation Boxes

Triggering Slide-In CTAs

Storing New Information

Security and Special Effects

MySQL

MySQL is a relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes.

The most common use for mySQL however, is for the purpose of a web database. It can be used to store anything from a single record of information to an entire inventory of available products for an online store.

Features

Relational Database Management System (RDBMS): MySQL is a relational database management system.

It is secure: MySQL consist of a solid data security layers that protect sensitive data from intruders. Passwords are encrypted in MySQL.

High Performance: MySQL is faster, more reliable and cheaper because of its unique storage engine architecture.

Why we used MySQL?

In association with PHP we will create websites which will interact in real-time with a mySQL database to rapidly display categorised and searchable information to a website user.

In Registering user if Email Address already exist it will notify.

Register users and if Password is not in valid format it will notify.

The screenshot shows a web browser window with the URL 'Isapp.test/register'. The page title is 'Register'. The form contains the following fields and values:

- Name: Priyanshu Garg
- E-Mail Address: priyanshugarg20.08@gmail.com
- Type Of User: 2
- Batch 1: 1
- Batch 3: 1
- Batch 2: 1
- Password: (empty, with a red 'x' icon and error message: "The password must be at least 8 characters.")
- Confirm Password: (empty)

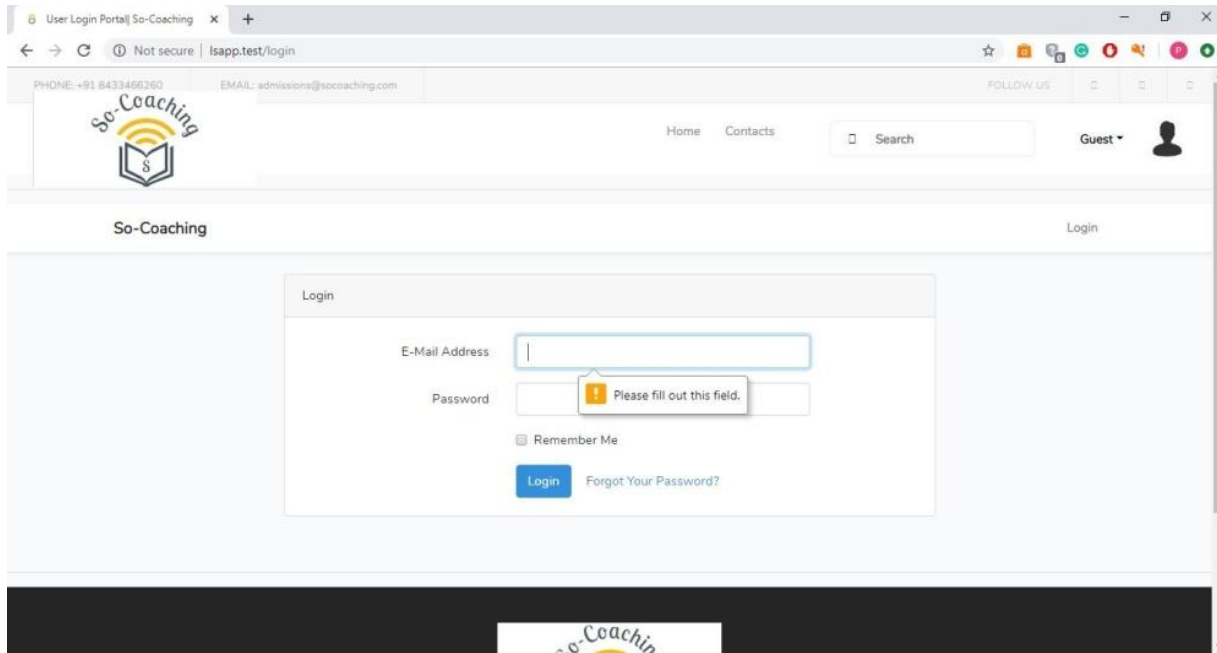
A blue 'Register' button is located at the bottom of the form.

Verify in Registering user that Password and Confirm Password is same.

Input /output Screens for our software

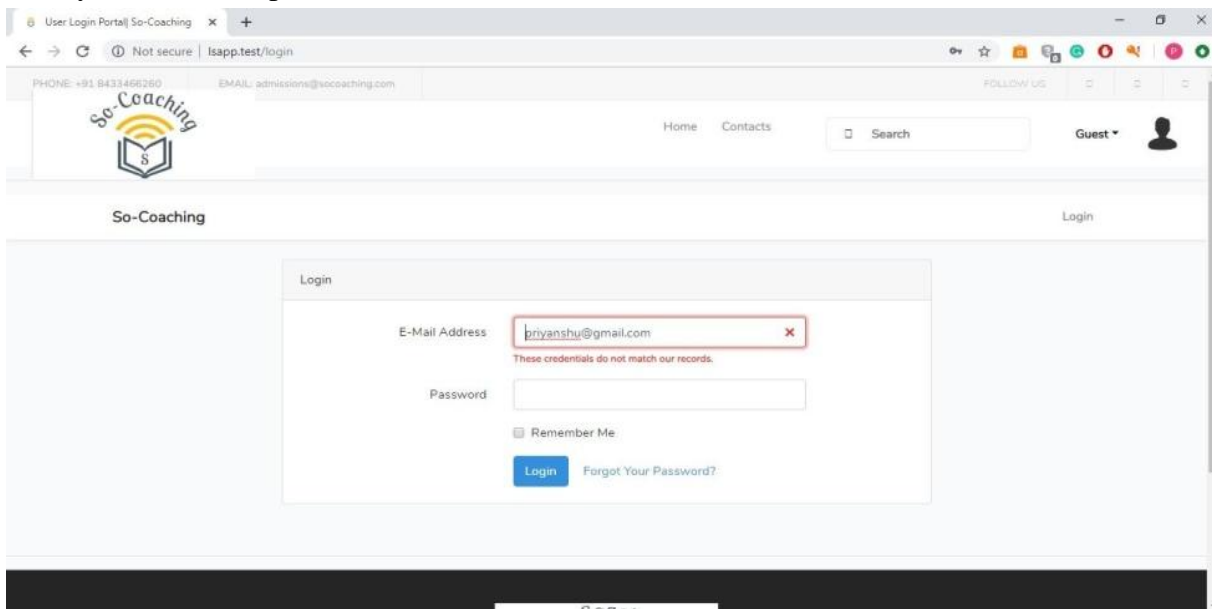
Verify the login page for both the fields whether they are blank and submit button is clicked.

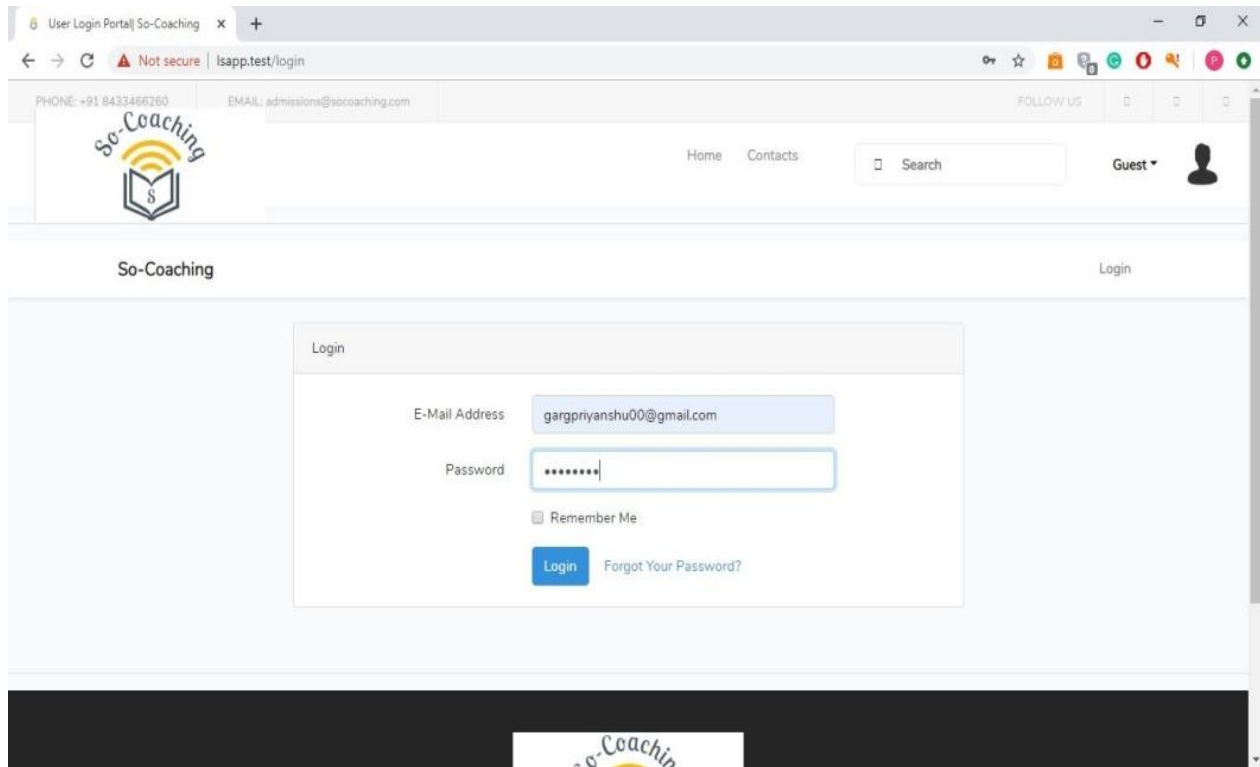
The screenshot shows the same web browser window as above. The form fields and values are identical, but the error message for the Password field has changed to: "The password confirmation does not match." This indicates that the password and confirm password fields do not match.



Verify if a user cannot login with a invalid Email or invalid password.

Verify if the data in password field is either visible as asterisk or bullet





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