

# **StudySphere Website**

## **Project Overview**

The main purpose of StudySphere is to serve as a student-friendly website that provides academic tools, productivity resources and study materials to assist students with their studies. The project showcases web development skills as it focuses on usability and responsive design.

## **Objectives**

- Create a platform for student to access resources, educational tools and study guides.
- Create a responsive layout that works on different devices.
- Develop interactive JavaScript features like quizzes, a timer and FAQs.
- Implement a PHP contact form for users to send feedback and request resources.
- Maintain a professional and clean design with consistent branding.

## **Key Features**

### Resource Sharing

- Downloadable study guides, cheat sheets and external learning resources.

### Interactive Learning

- Flashcard-style quizzes to test student's knowledge.
- Study session timer for better focus and time management.
- FAQs

### User Engagement

- PHP contact form for the user's feedback and resource requests.

### Visual Design

- Modern and neat interface with icons, grid-based layouts and banners for readability and organization.

## Tools Used

This project consists of HTML, CSS, JavaScript and PHP. HTML is used for the webpage structure and semantic layout. CSS is used for styling and responsive design. JavaScript is used for interactivity and functionality. And PHP handles the form submissions.

## Site Structure

- Home Page: The overview of the platform and navigation.
- About Page: Explains the foundation of StudySphere.
- Resource Page: Contains the study materials.
- Interactive Learning Page: Quizzes, study timer and FAQs.
- Contact Page: PHP feedback form.

## Design and Responsiveness

The website is designed with CSS and media queries for consistent layout across all devices.

A balanced colour palette and readable text for a professional appearance.

Navigation and interactive tools are made for both desktop and mobile use.

## Testing Summary

Test	Description	Result
Responsiveness	The layout adjusts to all screen sizes	Yes
Form Submission	PHP form validates and sends data correctly	Yes
JavaScript Functions	FAQ, timer and quiz features function well	Yes
Browser Compatibility	Works on all browsers	Yes

## **Challenges Faced During the Project**

- PHP and Server Setup Issues: The contact page initially displayed code instead of running; solved by using XAMPP and running files via localhost.
- File Path and Linking Errors: CSS, image, and document links were broken until all file paths were corrected and properly organized.
- JavaScript Functionality Problems: Some effects didn't work at first; fixed by adding defer and ensuring scripts loaded after HTML.
- Form Submission and Validation Errors: The contact form failed to submit properly; resolved by adding CSRF protection, honeypot fields, and validation.
- Inconsistent Page Design: Each page had different colours and layouts; unified using a shared CSS theme and global styles.
- Responsive Design Issues: Layouts broke on mobile screens; solved using CSS media queries.
- Integration Difficulties: Combining HTML, CSS, JavaScript, and PHP caused layout and code conflicts; fixed by structuring files clearly and testing each page.