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**INTRODUCTION**

**Existing Attendance System:**

* Existing attendance management system is manual, in which everything has to be maintained with the manual process.
* Attendance record is maintained in register, book, file, etc. Then the record is placed in cup board or locker.
* These records have to be kept safe and secure without being lost or damaged.
* So, a secure and safe place is required to keep these records, so that no any liquid substance or any animal like mouse, etc. could harm these data. Generally, they are stored in cup boards.
* For example, if someone has marked attendance on register, and unfortunately a register has come in contact with water or any liquid substance or any animal like mouse, it will lose the data which is stored in register.
* And if anyone has to check attendance record, then he or she has to find the register first, then he or she can access it.
* If we have to find any specific student’s record, then it’s very difficult to find it in register.

**Proposed System**

* Now as we all know that almost everything can be done online with the help of internet.
* For example: Money transfer, Shopping, Booking, Teaching, Data sharing, Admissions, Job search, etc. and so many other activities are done with the help of internet.
* So with the easy access and use of internet, we are going to take this existing attendance system on advance level.
* We are going to develop an online platform with high security so that the same process could be done easily without the waste of time, afford, and energy.
* We have developed a web application in which teachers can easily mark the attendance of students, and they can also save date wise record of students in excel sheet.
* First, admin will add courses and its subjects into the system. Then admin will add teachers/faculties into the system. Then admin will add students into the system.
* Every faculty and every student will be given separate id and password for login use.
* After successful registration of faculty or student, system will generate unique id and password. Admin will provide this uniquely generated id and password to each student and faculty.
* Once id and password is received, teacher can easily login into the teacher dashboard, and student can easily login into the student dashboard.
* In teacher dashboard, teacher will be able to see the list of all the students belonging to his/her subject.
* In student dashboard, student will be able to see his/her attendance record according to date.
* Both student and teacher, can download attendance record into excel sheet from their dashboard.
* Admin can also see the records, and too can download it into excel sheet.
* All the records are maintained in a table format according to date, so that anyone can easily find it if required.
* So this system will save a lot of time, energy, and afford for teachers as well as institution.

**SYSTEM DESIGN**

ADMIN

STUDENT

SYSTEM

TEACHER

**1. ADMIN**

Admin of the system is the one who has complete access and control over the system. Admin is responsible to add, remove, or update anything into the system, and only he has that authority. Admin has a separate id and password by the help of which he can log in to the admin panel.

Inside an admin module or admin panel, there are five sections:

1. Student
2. Teacher
3. Course
4. Subject
5. Attendance

1. Student

In the student section, there’s a form to add a new student. Form contains the following fields:

1. Name
2. Roll No
3. Address
4. Course
5. Subject

At the time of adding a new student, admin will select the course, and according to the course, subjects will appear into subject dropdown. For example, there are 3 courses like BCA, MCA, and BCS.

If admin selects BCA course, then only those subjects who are added under BCA course will appear into subject dropdown. No any subject of MCA or BCS will appear into subject dropdown.

Admin will fill up the above form to add a new student. Once student is added, system will generate unique id and password and will display it to the admin. Then admin will provide that id, password to the respective student. Once the student is added, his or her bio data will appear into the student list which will be displayed in the student section.

2. Teacher

In the teacher section, there’s a form to add a new teacher. Form contains the following fields:

1. Name
2. Designation
3. Course
4. Subject

Admin will fill up the above form to add a new student. Once student is added, system will generate unique id and password and will display it to the admin. Then admin will provide that id, password to the respective teacher. Once teacher is added, his or her bio data will appear into the teacher list which will be displayed in the teacher section.

Just like in the student section, here also at the time of adding a new teacher, admin will select the course, and according to the course, subjects those come under that particular course will appear into subject dropdown.

For example, there are 3 courses like BCA, MCA, and BCS. If admin selects BCA course, then only those subjects who are added under BCA course will appear into subject dropdown. No any subject of MCA or BCS will appear into subject dropdown.

3. Course

In the course section, there’s a form to add a new course. Form contains the following fields:

1. Course Name
2. Course Duration

Admin will fill the above details to add a new course. Once the course is added, it will appear into the course list in course section. Here admin is able to remove the course. There’s a button called ‘remove’ in front of every course, if it is pressed by admin then that particular course will be removed from the course list.

4. Subject

In the subject section, there’s a form to add a subject course. Form contains the following fields:

1. Select course
2. Subject name

Admin will first select the course from the dropdown, and then he will add subject to add a new course. Once the subject is added, it will appear into the subject list in subject section. As admin selects the course, the respective subjects will appear into subject under that particular course.

Here also admin is able to remove the subject. There’s a button called ‘remove’ in front of every subject, but first admin needs to select the course. After selecting the course, all subjects of that particular course will appear into subject list. If the ‘remove’ button is pressed by admin then that particular subject will be removed from the subject list and also from course.

5. Attendance

In the attendance section, there are tables that appear according to the date of the attendance marked on. Tables contain the following data:

1. Sr. no.
2. Name
3. Roll No.
4. Course
5. Subject
6. Date
7. Status

Admin can see all the records of attendance marked by different teachers into different courses and subjects. Attendance record is displayed in a table format according to the date of the attendance.

Above every table, there’s a download button by the help of which admin can download attendance data of that particular date. Data is downloaded into excel sheet.

**Admin responsibilities:**

* Course add/remove in system
* Subject add/remove in subject
* Admission of new student
* Teacher registration
* Database handling

**2. STUDENT**

Student is added into the system by admin. Once student is successfully added, he/she is given unique id and password by admin. Using this unique id and password student can login into the student dashboard. Inside student dashboard basic details of student like name, course, subject, roll no, and address is shown.

Student can see his/her attendance record in table format. Record is arranged according to the date of the attendance. Student can also download his/her attendance record in excel sheet. Above the record table, there’s a button called ‘Download’ by which student can easily download the record.

At the time of student registration, following details from student will be provided to the system:

* Name
* Roll no
* Course
* Subject
* Address

**Student responsibilities:**

* Login to system
* View attendance record
* Download record sheet in excel

**3. TEACHER**

Teacher is added into the system by admin. Once teacher is registered successfully, he/she is given unique id and password by admin. Using this unique id and password teacher can login into the teacher dashboard. Inside the teacher dashboard basic details of student like name, course, subject, roll no, and address will be shown.

Student can see his/her attendance record in table format. Record will be arranged according to the date of the attendance. Student can also download his/her attendance record in excel sheet. Above the record table, there’s a button called ‘Download’ by which student can easily download the record.

At the time of student registration, following details from student will be provided to the system:

* Name
* Designation
* Course
* Subject

**4. SYSTEM**

System is an online platform where attendance is maintained in a secured way. The faculties are registered here, and with the help of system, they can add/remove students, can marks attendance and maintain attendance records.

**System responsibilities:**

* Teacher registration
* Teacher login
* Student registration
* Student login
* Generate unique id and password
* Attendance marking
* Display students
* Display teachers
* Display attendance
* Add/remove course
* Adding/remove subject
* Generate attendance record in excel sheet

**FLOW CHART**

**Admin Login**

**Student – Registration**

**Teacher – Registration**

**ATTENDANCE MANAGEMENT SYSTEM**

**Teacher Login**

**Admin Dashboard**

**Student Login**

**Attendance Record**

**Add Teacher**

**Student List**

**Add Student**

**Attendance Marking**

**Course**

**Attendance Records**

**Subject**

**Attendance Record**

**Generate Excel sheet**

**DATA FLOW DIAGRAM**

Admin

Add student

Add teacher

Add course

Add course

Teachers display

Students display

Excel sheet generation

Attendance marking

Course display

Subject display

Attendance record display

**ER DIAGRAM**

Admin

Added

Teacher

Student

Subject

Course

Record

Added

Teacher

**Database design**

* MySQL is a technology which is used to maintain overall data of faculty, student, course, subject and attendance record in this system.
* We created a database with name *“****attendance-major”*** in MySQL.
* Then we created below tables inside database

***Faculty***

***Student***

***Record***

***Course***

***Subject***

Following fields are created in ***Faculty*** table:

* + ID
  + Name
  + Designation
  + Subject
  + Course
  + T\_ID
  + Password
  + Modified \_at

Following fields are created in ***Student*** table:

* + ID
  + Name
  + Roll no
  + Course
  + Subject
  + S\_ID
  + Password
  + Address
  + Modified \_at

Following fields are created in ***Record*** table:

* + ID
  + SID
  + TID
  + Status
  + Record
  + Date
  + Day
  + Month
  + Year
  + Modified \_at

Following fields are created in ***Subject*** table:

* + ID
  + Name
  + Course
  + Modified \_at

Following fields are created in ***Course*** table:

* + ID
  + Name
  + Duration
  + Modified \_at

**APPLICATIONS**

This system is applicable in below fields for attendance purpose:

* **School**
* **College**
* **University**
* **Corporate**
* **Government**
* **Hospital**
* **Food and Restaurant**
* **Sports**
* **Entertainment**
* **Production**
* **Investment**
* **News and Media**
* **Technology**

**TECHNOLOGY DETAILS**

**HTML**

* **HTML** (HyperText Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. Other technologies besides HTML are generally used to describe a web page's appearance/presentation ([CSS](https://developer.mozilla.org/en-US/docs/Web/CSS)) or functionality/behavior ([JavaScript](https://developer.mozilla.org/en-US/docs/Web/JavaScript)).
* "Hypertext" refers to links that connect web pages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content to the Internet and linking it to pages created by other people, you become an active participant in the World Wide Web.
* HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as [<head>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/head), [<title>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/title), [<body>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/body), [<header>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/header), [<footer>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/footer), [<article>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/article), [<section>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/section), [<p>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/p), [<div>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/div), [<span>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/span), [<img>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img), [<aside>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/aside), [<audio>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio), [<canvas>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/canvas), [<datalist>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/datalist), [<details>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/details), [<embed>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/embed), [<nav>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/nav), [<output>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/output), [<progress>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/progress), [<video>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/video), [<ul>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ul), [<ol>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ol), [<li>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/li) and many others.
* An HTML element is set off from other text in a document by "tags", which consist of the element name surrounded by "<" and ">".  The name of an element inside a tag is case insensitive. That is, it can be written in uppercase, lowercase, or a mixture. For example, the <title> tag can be written as <Title>, <TITLE>, or in any other way.

**CSS**

* Cascading Style Sheets (CSS) is a [style sheet language](https://en.wikipedia.org/wiki/Style_sheet_language) used for describing the [presentation](https://en.wikipedia.org/wiki/Presentation_semantics) of a document written in a [markup language](https://en.wikipedia.org/wiki/Markup_language) such as [HTML](https://en.wikipedia.org/wiki/HTML).[[1]](https://en.wikipedia.org/wiki/CSS#cite_note-1) CSS is a cornerstone technology of the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web), alongside HTML and [JavaScript](https://en.wikipedia.org/wiki/JavaScript).[[2]](https://en.wikipedia.org/wiki/CSS#cite_note-2)
* CSS is designed to enable the separation of presentation and content, including [layout](https://en.wikipedia.org/wiki/Page_layout), [colors](https://en.wikipedia.org/wiki/Color), and [fonts](https://en.wikipedia.org/wiki/Typeface).[[3]](https://en.wikipedia.org/wiki/CSS#cite_note-3) This separation can improve content [accessibility](https://en.wikipedia.org/wiki/Accessibility), provide more flexibility and control in the specification of presentation characteristics, enable multiple [web pages](https://en.wikipedia.org/wiki/Web_page) to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enabling the .css file to be [cached](https://en.wikipedia.org/wiki/Cache_(computing)) to improve the page load speed between the pages that share the file and its formatting.
* Separation of formatting and content also makes it feasible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or [screen reader](https://en.wikipedia.org/wiki/Screen_reader)), and on [Braille-based](https://en.wikipedia.org/wiki/Braille_display) tactile devices. CSS also has rules for alternate formatting if the content is accessed on a [mobile device](https://en.wikipedia.org/wiki/Mobile_device).[[4]](https://en.wikipedia.org/wiki/CSS#cite_note-4)
* The name cascading comes from the specified priority scheme to determine which style rule applies if more than one rule matches a particular element. This cascading priority scheme is predictable.
* The CSS specifications are maintained by the [World Wide Web Consortium](https://en.wikipedia.org/wiki/World_Wide_Web_Consortium) (W3C). Internet media type ([MIME type](https://en.wikipedia.org/wiki/MIME_media_type)) text/css is registered for use with CSS by [RFC 2318](https://tools.ietf.org/html/rfc2318) (March 1998). The W3C operates a free [CSS validation service](https://en.wikipedia.org/wiki/W3C_Markup_Validation_Service#CSS_validation) for CSS documents.[[5]](https://en.wikipedia.org/wiki/CSS#cite_note-5)
* In addition to HTML, other markup languages support the use of CSS including [XHTML](https://en.wikipedia.org/wiki/XHTML), [plain XML](https://en.wikipedia.org/wiki/Plain_Old_XML), [SVG](https://en.wikipedia.org/wiki/Scalable_Vector_Graphics), and [XUL](https://en.wikipedia.org/wiki/XUL).

**JavaScript**

* JavaScript ([/ˈdʒɑːvəˌskrɪpt/](https://en.wikipedia.org/wiki/Help:IPA/English)),[[6]](https://en.wikipedia.org/wiki/JavaScript#cite_note-6) often abbreviated as JS, is a [programming language](https://en.wikipedia.org/wiki/Programming_language) that conforms to the [ECMAScript](https://en.wikipedia.org/wiki/ECMAScript) specification.[[7]](https://en.wikipedia.org/wiki/JavaScript#cite_note-tc39-7) JavaScript is [high-level](https://en.wikipedia.org/wiki/High-level_programming_language), often [just-in-time compiled](https://en.wikipedia.org/wiki/Just-in-time_compilation), and [multi-paradigm](https://en.wikipedia.org/wiki/Programming_paradigm). It has [curly-bracket syntax](https://en.wikipedia.org/wiki/List_of_programming_languages_by_type#Curly-bracket_languages), [dynamic typing](https://en.wikipedia.org/wiki/Dynamic_typing), [prototype-based](https://en.wikipedia.org/wiki/Prototype-based_programming) [object-orientation](https://en.wikipedia.org/wiki/Object-oriented_programming), and [first-class functions](https://en.wikipedia.org/wiki/First-class_function).
* Alongside [HTML](https://en.wikipedia.org/wiki/HTML) and [CSS](https://en.wikipedia.org/wiki/CSS), JavaScript is one of the core technologies of the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web).[[8]](https://en.wikipedia.org/wiki/JavaScript#cite_note-8) JavaScript enables interactive [web pages](https://en.wikipedia.org/wiki/Web_page) and is an essential part of [web applications](https://en.wikipedia.org/wiki/Web_application). The vast majority of [websites](https://en.wikipedia.org/wiki/Website) use it for [client-side](https://en.wikipedia.org/wiki/Client-side) page behavior,[[9]](https://en.wikipedia.org/wiki/JavaScript#cite_note-deployedstats-9) and all major [web browsers](https://en.wikipedia.org/wiki/Web_browser) have a dedicated [JavaScript engine](https://en.wikipedia.org/wiki/JavaScript_engine) to execute it.
* As a multi-paradigm language, JavaScript supports [event-driven](https://en.wikipedia.org/wiki/Event-driven_programming), [functional](https://en.wikipedia.org/wiki/Functional_programming), and [imperative](https://en.wikipedia.org/wiki/Imperative_programming) [programming styles](https://en.wikipedia.org/wiki/Programming_paradigm). It has [application programming interfaces](https://en.wikipedia.org/wiki/Application_programming_interface) (APIs) for working with text, dates, [regular expressions](https://en.wikipedia.org/wiki/Regular_expression), standard [data structures](https://en.wikipedia.org/wiki/Data_structure), and the [Document Object Model](https://en.wikipedia.org/wiki/Document_Object_Model) (DOM). However, the language itself does not include any [input/output](https://en.wikipedia.org/wiki/Input/output) (I/O), such as [networking](https://en.wikipedia.org/wiki/Computer_network), [storage](https://en.wikipedia.org/wiki/Data_storage), or [graphics](https://en.wikipedia.org/wiki/Computer_graphics) facilities, as the host environment (usually a web browser) provides those APIs.
* JavaScript engines were originally used only in web browsers, but they are now embedded in some [servers](https://en.wikipedia.org/wiki/Server_(computing)), usually via [Node.js](https://en.wikipedia.org/wiki/Node.js). They are also embedded in a variety of applications created with [frameworks](https://en.wikipedia.org/wiki/Software_framework) such as [Electron](https://en.wikipedia.org/wiki/Electron_(software_framework)) and [Cordova](https://en.wikipedia.org/wiki/Apache_Cordova).
* Although there are similarities between JavaScript and [Java](https://en.wikipedia.org/wiki/Java_(programming_language)), including language name, [syntax](https://en.wikipedia.org/wiki/Syntax_(programming_languages)), and respective [standard libraries](https://en.wikipedia.org/wiki/Standard_library), the two languages are distinct and differ greatly in design.

**Boostrap**

* Bootstrap is a [free and open-source](https://en.wikipedia.org/wiki/Free_and_open-source) [CSS framework](https://en.wikipedia.org/wiki/CSS_framework) directed at responsive, [mobile-first](https://en.wikipedia.org/wiki/Responsive_web_design#Mobile_first,_unobtrusive_JavaScript,_and_progressive_enhancement) [front-end web development](https://en.wikipedia.org/wiki/Front-end_web_development). It contains [CSS](https://en.wikipedia.org/wiki/CSS)- and (optionally) [JavaScript](https://en.wikipedia.org/wiki/JavaScript)-based design templates for [typography](https://en.wikipedia.org/wiki/Web_design#Typography), [forms](https://en.wikipedia.org/wiki/Form_(HTML)), [buttons](https://en.wikipedia.org/wiki/Button_(computing)#HTML), [navigation](https://en.wikipedia.org/wiki/Web_navigation#Local_website_navigation), and other interface components.
* Bootstrap is a web framework that focuses on simplifying the development of informative web pages (as opposed to [web apps](https://en.wikipedia.org/wiki/Web_Apps)). The primary purpose of adding it to a web project is to apply Bootstrap's choices of color, size, font and layout to that project. As such, the primary factor is whether the developers in charge find those choices to their liking. Once added to a project, Bootstrap provides basic style definitions for all [HTML elements](https://en.wikipedia.org/wiki/HTML_element). The result is a uniform appearance for prose, tables and form elements across [web browsers](https://en.wikipedia.org/wiki/Web_browser). In addition, developers can take advantage of CSS classes defined in Bootstrap to further customize the appearance of their contents. For example, Bootstrap has provisioned for light- and dark-colored tables, page headings, more prominent pull quotes, and text with a highlight.
* Bootstrap also comes with several JavaScript components in the form of [jQuery](https://en.wikipedia.org/wiki/JQuery) plugins. They provide additional user interface elements such as [dialog boxes](https://en.wikipedia.org/wiki/Dialog_box), [tooltips](https://en.wikipedia.org/wiki/Tooltip), and carousels. Each Bootstrap component consists of an HTML structure, CSS declarations, and in some cases accompanying JavaScript code. They also extend the functionality of some existing interface elements, including for example an auto-complete function for input fields.
* Example of a webpage using Bootstrap framework rendered in [Firefox](https://en.wikipedia.org/wiki/Firefox)
* The most prominent components of Bootstrap are its layout components, as they affect an entire web page. The basic layout component is called "Container", as every other element in the page is placed in it. Developers can choose between a fixed-width container and a fluid-width container. While the latter always fills the width of the web page, the former uses one of the four predefined fixed widths, depending on the size of the screen showing the page:
* Smaller than 576 pixels
* 576–768 pixels
* 768–992 pixels
* 992–1200 pixels
* Larger than 1200 pixels
* Once a container is in place, other Bootstrap layout components implement a CSS Flexbox layout through defining rows and columns.
* A precompiled version of Bootstrap is available in the form of one CSS file and three JavaScript files that can be readily added to any project. The raw form of Bootstrap, however, enables developers to implement further customization and size optimizations. This raw form is modular, meaning that the developer can remove unneeded components, apply a theme and modify the uncompiled [Sass](https://en.wikipedia.org/wiki/Sass_(stylesheet_language)) files.

**jQuery**

* jQuery is a [JavaScript library](https://en.wikipedia.org/wiki/JavaScript_library) designed to simplify [HTML](https://en.wikipedia.org/wiki/HTML) [DOM](https://en.wikipedia.org/wiki/Document_Object_Model) tree traversal and manipulation, as well as [event handling](https://en.wikipedia.org/wiki/Event_handling), [CSS animation](https://en.wikipedia.org/wiki/CSS_animation), and [Ajax](https://en.wikipedia.org/wiki/Ajax_(programming)).[[3]](https://en.wikipedia.org/wiki/JQuery#cite_note-jquery.com-3) It is [free, open-source software](https://en.wikipedia.org/wiki/Free_and_open_source_software) using the permissive [MIT License](https://en.wikipedia.org/wiki/MIT_License).[[4]](https://en.wikipedia.org/wiki/JQuery#cite_note-jqorg-license2-4) As of May 2019, jQuery is used by 73% of the 10 million most popular websites.[[5]](https://en.wikipedia.org/wiki/JQuery#cite_note-:0-5) [Web](https://en.wikipedia.org/wiki/World_Wide_Web) analysis indicates that it is the most widely deployed JavaScript library by a large margin, having at least 3 to 4 times more usage than any other JavaScript library.[[5]](https://en.wikipedia.org/wiki/JQuery#cite_note-:0-5)[[6]](https://en.wikipedia.org/wiki/JQuery#cite_note-libscore.com-6)
* jQuery's syntax is designed to make it easier to navigate a document, select [DOM](https://en.wikipedia.org/wiki/Document_Object_Model) elements, create [animations](https://en.wikipedia.org/wiki/Animation), handle [events](https://en.wikipedia.org/wiki/Event_(computing)), and develop [Ajax](https://en.wikipedia.org/wiki/Ajax_(programming)) applications. jQuery also provides capabilities for developers to create [plug-ins](https://en.wikipedia.org/wiki/Plug-in_(computing)) on top of the JavaScript library. This enables developers to create [abstractions](https://en.wikipedia.org/wiki/Abstraction_(computer_science)) for low-level interaction and animation, advanced effects and high-level, themeable widgets. The modular approach to the jQuery library allows the creation of powerful [dynamic web pages](https://en.wikipedia.org/wiki/Dynamic_web_page) and Web applications.
* The set of [jQuery core features](https://en.wikipedia.org/wiki/JQuery#Features)—DOM element selections, traversal and manipulation—enabled by its *selector engine* (named "Sizzle" from v1.3), created a new "programming style", fusing algorithms and DOM data structures. This style influenced the architecture of other [JavaScript frameworks](https://en.wikipedia.org/wiki/Comparison_of_JavaScript_frameworks) like [YUI v3](https://en.wikipedia.org/wiki/YUI_Library) and [Dojo](https://en.wikipedia.org/wiki/Dojo_Toolkit), later stimulating the creation of the standard *Selectors API*.[[7]](https://en.wikipedia.org/wiki/JQuery#cite_note-7) Later, this style has been enhanced with a deeper algorithm-data fusion in an heir of jQuery, the [D3.js](https://en.wikipedia.org/wiki/D3.js) framework.
* [Microsoft](https://en.wikipedia.org/wiki/Microsoft) and [Nokia](https://en.wikipedia.org/wiki/Nokia) bundle jQuery on their platforms.[[8]](https://en.wikipedia.org/wiki/JQuery#cite_note-2008-09-28-8) Microsoft includes it with [Visual Studio](https://en.wikipedia.org/wiki/Microsoft_Visual_Studio)[[9]](https://en.wikipedia.org/wiki/JQuery#cite_note-9) for use within Microsoft's [ASP.NET AJAX](https://en.wikipedia.org/wiki/ASP.NET_AJAX) and [ASP.NET MVC](https://en.wikipedia.org/wiki/ASP.NET_MVC) frameworks while Nokia has integrated it into the Web Run-Time widget development platform.

**Ajax**

* Ajax (also AJAX [/ˈeɪdʒæks/](https://en.wikipedia.org/wiki/Help:IPA/English); short for "Asynchronous [JavaScript](https://en.wikipedia.org/wiki/JavaScript) and [XML](https://en.wikipedia.org/wiki/XML)")[[1]](https://en.wikipedia.org/wiki/Ajax_(programming)#cite_note-garrett-1)[[2]](https://en.wikipedia.org/wiki/Ajax_(programming)#cite_note-2) is a set of [web development](https://en.wikipedia.org/wiki/Web_development) techniques using many web technologies on the [client side](https://en.wikipedia.org/wiki/Client_side) to create [asynchronous](https://en.wikipedia.org/wiki/Asynchronous_I/O) [web applications](https://en.wikipedia.org/wiki/Web_application). With Ajax, web applications can send and retrieve data from a [server](https://en.wikipedia.org/wiki/Web_server) asynchronously (in the background) without interfering with the display and behaviour of the existing page. By decoupling the data interchange layer from the presentation layer, Ajax allows web pages and, by extension, web applications, to change content dynamically without the need to reload the entire page.[[3]](https://en.wikipedia.org/wiki/Ajax_(programming)#cite_note-wrox-3) In practice, modern implementations commonly utilize [JSON](https://en.wikipedia.org/wiki/JSON) instead of XML.
* Ajax is not a single technology, but rather a group of technologies. [HTML](https://en.wikipedia.org/wiki/Hypertext_Markup_Language) and [CSS](https://en.wikipedia.org/wiki/Cascading_Style_Sheets) can be used in combination to mark up and style information. The webpage can then be modified by JavaScript to dynamically display—and allow the user to interact with—the new information. The built-in [XMLHttpRequest](https://en.wikipedia.org/wiki/XMLHttpRequest" \o "XMLHttpRequest) object, or since 2017 the new "fetch()" function within JavaScript, is commonly used to execute Ajax on webpages, allowing websites to load content onto the screen without refreshing the page. Ajax is not a new technology, or different language, just existing technologies used in new ways.
* The term Ajax has come to represent a broad group of Web technologies that can be used to implement a Web application that communicates with a server in the background, without interfering with the current state of the page. In the article that coined the term Ajax,[[1]](https://en.wikipedia.org/wiki/Ajax_(programming)#cite_note-garrett-1)[[3]](https://en.wikipedia.org/wiki/Ajax_(programming)#cite_note-wrox-3) Jesse James Garrett explained that the following technologies are incorporated:
* [HTML](https://en.wikipedia.org/wiki/HTML) (or [XHTML](https://en.wikipedia.org/wiki/XHTML)) and [CSS](https://en.wikipedia.org/wiki/CSS) for presentation
* The [Document Object Model](https://en.wikipedia.org/wiki/Document_Object_Model) (DOM) for dynamic display of and interaction with data
* [JSON](https://en.wikipedia.org/wiki/JSON) or [XML](https://en.wikipedia.org/wiki/XML) for the interchange of data, and [XSLT](https://en.wikipedia.org/wiki/XSLT) for XML manipulation
* The [XMLHttpRequest](https://en.wikipedia.org/wiki/XMLHttpRequest" \o "XMLHttpRequest) object for asynchronous communication
* [JavaScript](https://en.wikipedia.org/wiki/JavaScript) to bring these technologies together
* Since then, however, there have been a number of developments in the technologies used in an Ajax application, and in the definition of the term Ajax itself. XML is no longer required for data interchange and, therefore, XSLT is no longer required for the manipulation of data. [JavaScript Object Notation](https://en.wikipedia.org/wiki/JSON) (JSON) is often used as an alternative format for data interchange,[[14]](https://en.wikipedia.org/wiki/Ajax_(programming)#cite_note-tapestry-14) although other formats such as preformatted HTML or plain text can also be used.[[15]](https://en.wikipedia.org/wiki/Ajax_(programming)#cite_note-devx-json-15) A variety of popular JavaScript libraries, including JQuery, include abstractions to assist in executing Ajax requests.

**PHP**

* Hypertext Preprocessor is a server side scripting language designed for web development and also used as a general purpose programming language. It was originally created by Rasmus Lerdorf in 1994. The php reference is now produced by the php group. Php originally stood for personal home page. But now it stands for recursive initialism php hypertext preprocessor.
* Php code may be embedded into html code. It can be used in combination with various web template systems, web content management systems, and web frameworks. Php code is usually processed by a php interpreter implemented as a module in the web server or as a common gateway interface executable. The web server combines the results of interpreted and executed php code, which may be any type of data, including images, with the generated web page. Php code may also be executed with a command line interface and can be used to implement standalone graphical applications.
* The standard php interpreter, powered by the Zend engine, is free software released under the php license. Php has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge.
* The php language evolved without a written formal specification or standard until 2014, with the original implementation acting as the de facto standard which other implementations aimed to follow. Since 2014 work has gone on to create a formal php specification

## What is a PHP File?

* PHP files can contain text, HTML, CSS, JavaScript, and PHP code
* PHP code are executed on the server, and the result is returned to the browser as plain HTML
* PHP files have extension ".php"

## What Can PHP Do?

* PHP can generate dynamic page content
* PHP can create, open, read, write, delete, and close files on the server
* PHP can collect form data
* PHP can send and receive cookies
* PHP can add, delete, modify data in your database
* PHP can be used to control user-access
* PHP can encrypt data

With PHP you are not limited to output HTML. You can output images, PDF files, and even flash movies. You can also output any text, such as XHTML and XML.

## Why PHP?

* PHP runs on various platforms (Windows, Linux, UNIX, Mac OS X, etc.)
* PHP is compatible with almost all servers used today (Apache, IIS, etc.)
* PHP supports a wide range of databases
* PHP is free. Download it from the official PHP resource: [www.php.net](http://www.php.net/)
* PHP is easy to learn and runs efficiently on the server side

PHP is an amazing and popular language!

It is powerful enough to be at the core of the biggest blogging system on the web (WordPress)!  
It is deep enough to run the largest social network (Facebook)!  
It is also easy enough to be a beginner's first server side language!

**Advantages of PHP:**

The reason behind the popularity of PHP is its several advantages. PHP is most suited for the purpose of web development. The advantages of PHP are discussed briefly below:

1. **Cross Platform.**

* All the PHP based applications can run on various types of platforms. PHP is supported by majority of Operating Systems, some of which includes Solaris, UNIX, Windows and Linux. The mentioned platforms can be used to write codes in PHP and also view web pages or run the PHP based applications.
* PHP easily interfaces with MySQL and Apache both. An effortless integration of PHP can be done with various other technologies like Java and there is no requirement of re-development. Therefore, saving both time and money, giving it an important advantage.

1. **Easy database connection.**

* A programming language like PHP is widely used on the internet and needs to connect to the database very often. Therefore, having a feature that could help PHP to connect to database easily is mandatory. Several websites such as the ecommerce websites require good database management system.
* PHP has a built-in module that helps it in connecting with database easily. Therefore, PHP has a great demand in the field of web development where a data driven website needs to be developed. PHP significantly reduces the time needed in developing the web application that needs an efficient database management system.

1. **Easy to use.**

* PHP is widely used because it is easy to use. In contrast with other programming languages that are complex, PHP is simple, fluent, clean and organized; hence it is a boon for the new users. PHP has a well-organized syntax which is logical at the same time.
* PHP does not require any intensive studying or manual to use it. Command functions of PHP are easily understood as the user can easily figure out from the name of the commands itself what it does. A person who is new to PHP can still code because the syntax is somewhat similar to C.
* A person who is new to PHP can still code because the syntax is somewhat similar to C. Hence, if a person who knows C can easily code in PHP. Hence, it is easier to create and optimize the application using PHP.

1. **Speed**

* Speed is the primary need of web development. There are people who face the challenge of slow internet connection and slow data speed. Furthermore, a fast loading website is always preferred by people across the globe.When compared to other programming languages, PHP is found to be the fastest programming language.
* In normal circumstances, it takes a lot of time to connect to the database, when you attempt to fetch certain data from the database. It takes a lot of time in connecting to the database, then executing the statement and finally getting the data. PHP performs these set of tasks faster than other scripting languages. PHP is faster in both connecting to the database and in using other important applications.
* The high speed of PHP gives it an advantage over other scripting languages and gives it an application in important administrations such as the server administration and mail functionalities.

1. **Open source.**

* One of the important advantages of PHP is that it is Open Source. Therefore, PHP is readily available and is entirely free. In contrast to other scripting languages used for web development which requires the user to pay for the support files, PHP is open to everyone, anytime and anywhere.
* A beginner in PHP need not worry about the support as PHP is maintained and developed by a large group of PHP developers which helps in creating support community of PHP that helps people in PHP implementation and manipulation.

[**MYSQL**](https://www.mysql.com/)

MYSQL is an open source software. It is actually a relational database management system(RDBMS). This SQL stands for Structured Query Language.It is the most popular and best RDBMS used for developing a variety of web-based software applications. With the help of MYSQL, it is possible to organize the information, manage, retrieve and update the data whenever you wish to do. 

**XAMPP**

XAMPP is an open source free software developed by [Apache friends](https://www.apachefriends.org/download.html). XAMPP software package contains Apache distributions for Apache server, MariaDB, PHP, and Perl. And it is basically a local host or a local server. This local server works on your own desktop or laptop computer. You can just install this software on your laptop or desktop and test the clients or your website before uploading it to the remote web server or computer. This XAMPP server software gives you suitable environment for testing MYSQL, PHP, Apache and Perl projects on the local computer.

The full form of XAMPP is X stands for Cross-platform, (A) Apache server, (M) MariaDB, (P) PHP and (P)Perl. The Cross-platform usually means that it can run on any computer with any operating system.

Next MariaDB is the most famous database server and it is developed by MYSQL team. PHP usually provides a space for web development. PHP is a server-side scripting language. And the last Perl is a programming language and is used to develop a web application.

### What are the Main Tools of XAMPP and its definition?

XAMPP contains tools such as Apache, MYSQL, PHP, and Perl. We will see these tools.

[**Apache**](https://httpd.apache.org/)

Apache server is an open source free software which is initially developed by a group of software developers and now it is maintained by Apache software foundation. Apache HTTP is a remote server(computer) if someone request files, images or documents using their browser they will serve those files to clients using HTTP servers. Mainly hosting companies use this application to create a VPS server and shared hosting for their clients.

[MYSQL](https://www.mysql.com/)

MYSQL is an open-source software. It is actually a relational database management system (RDBMS). This SQL stands for Structured Query Language. It is the most popular and best RDBMS used for developing a variety of web-based software applications. With the help of MYSQL, it is possible to organize the information, manage, retrieve and update the data whenever you wish to do.

**PHP**

The full form of PHP is Hypertext Preprocessor. It is a server-side scripting language that helps you to create dynamic websites. This language is mainly used to build web-based software applications. It is an open source software and works fine with MYSQL. What actually happens is, the PHP code will be executed on the server and at the browser side its HTML code will be displayed.

[Perl](https://www.perl.org/)

Perl is usually said to be general purpose programming language. This Perl language is interpreted and highly dynamic. Actually, this language is used for web development, GUI development, system administration etc. Perl is capable of working with HTML, XML and other markup languages.

In the latest version of XAMPP, there are additional tools such as Mail server Mercury, OpenSSL, phpMyAdmin etc. With the above tools, you can create a full-fledged desktop server.

**XAMPP**

**(X-Cross Platform, A-Apache, M-MySQL, P-PHP, P-Perl)**

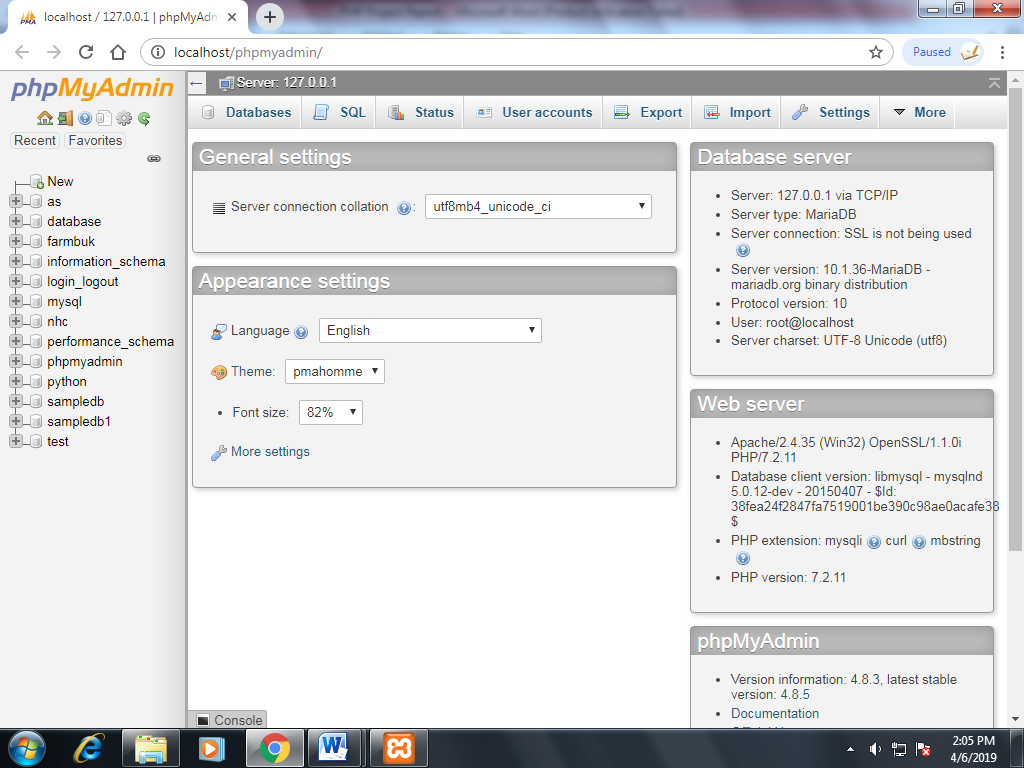
**Control Panel**

****

**Apache**

****

**MySQL**

****

**HARDWARE & SOFTWARE REQUIREMENT SPECIFICATION**

**Hardware specifications**

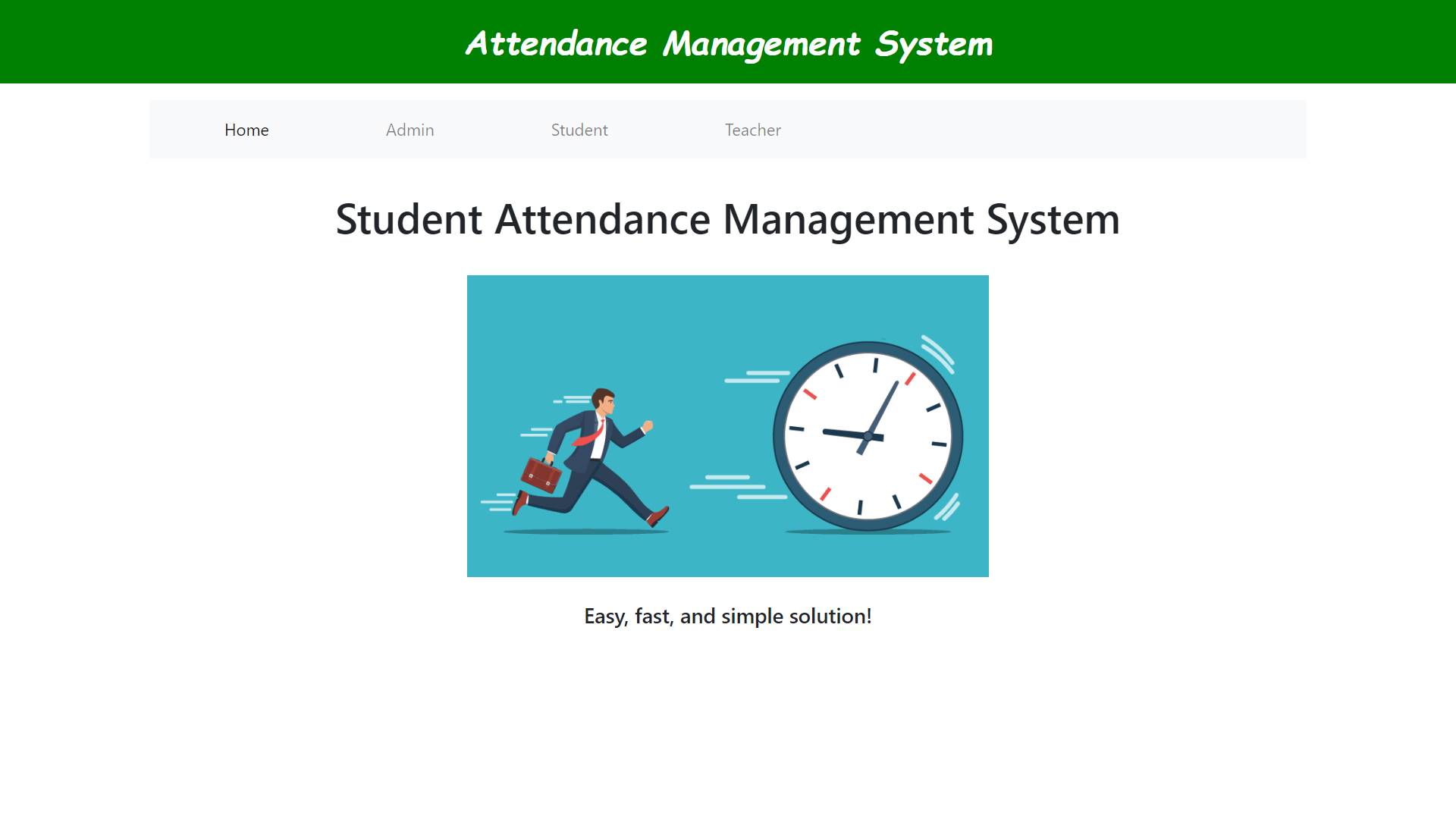
* Pentium 4 / Dual core processor or higher
* 2 GB RAM
* 1 GB free hard disk

**Software specifications**

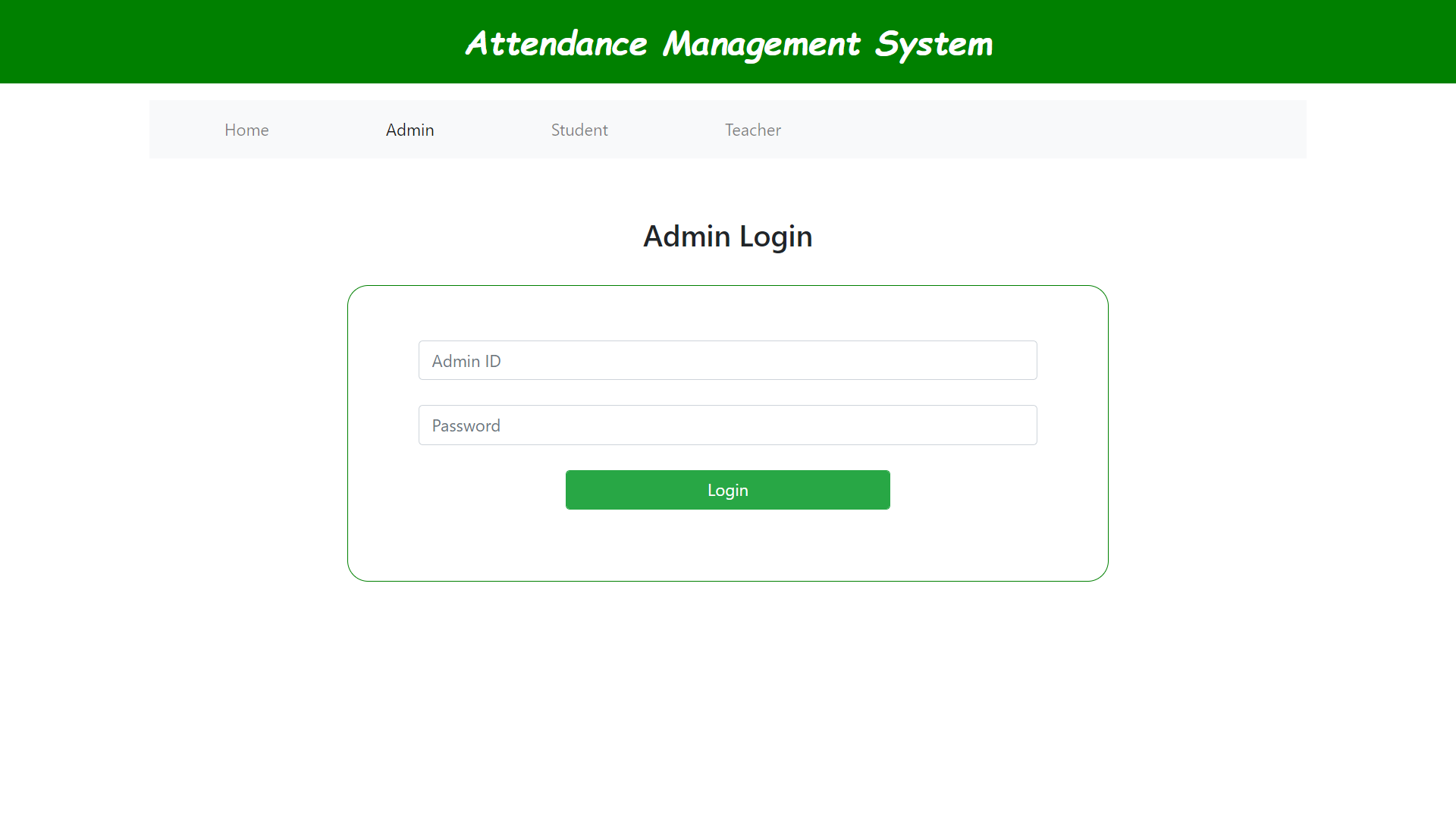
* Operating System: Windows 10/11
* Browser: Google Chrome/Mozilla Firefox/Microsoft Edge
* XAMPP software
* Code editor: Notepad/VS Code/Sublime text

**PROJECT SNAP SHOTS**

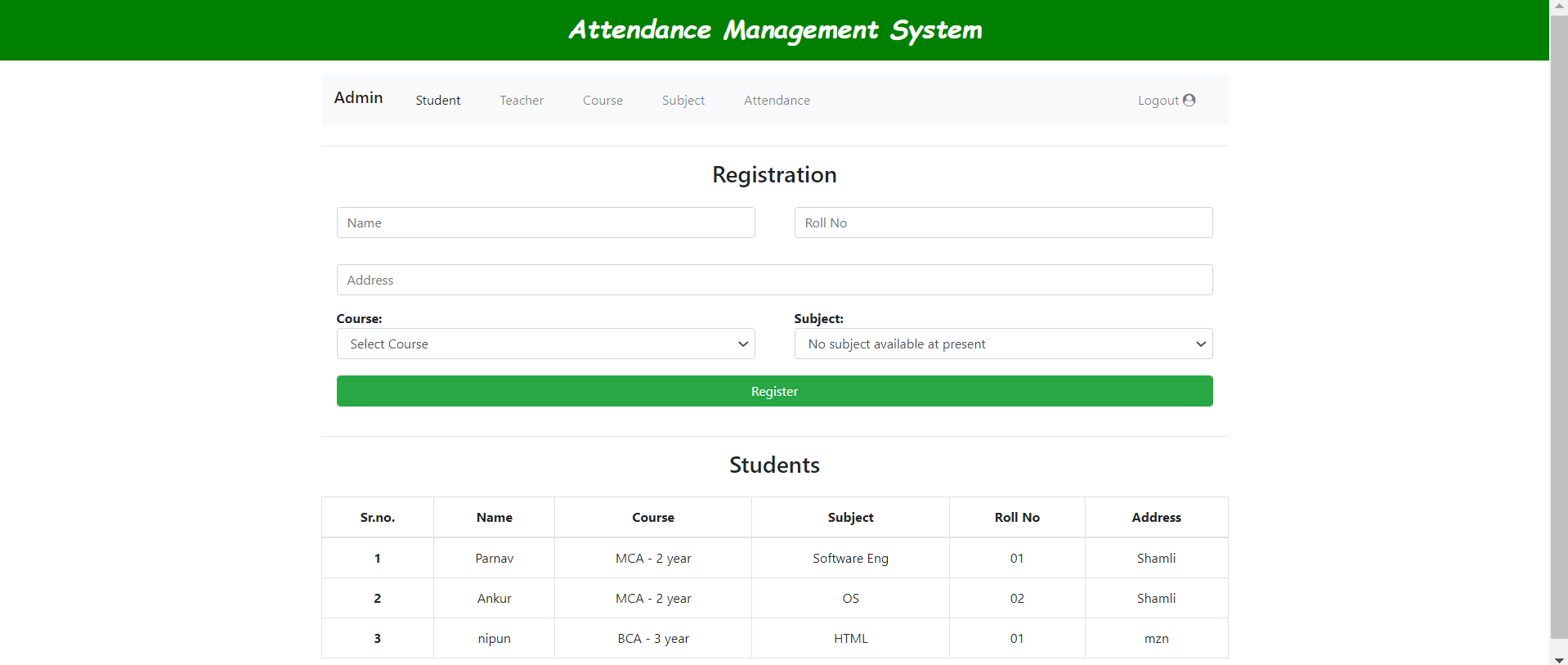
**Homepage**



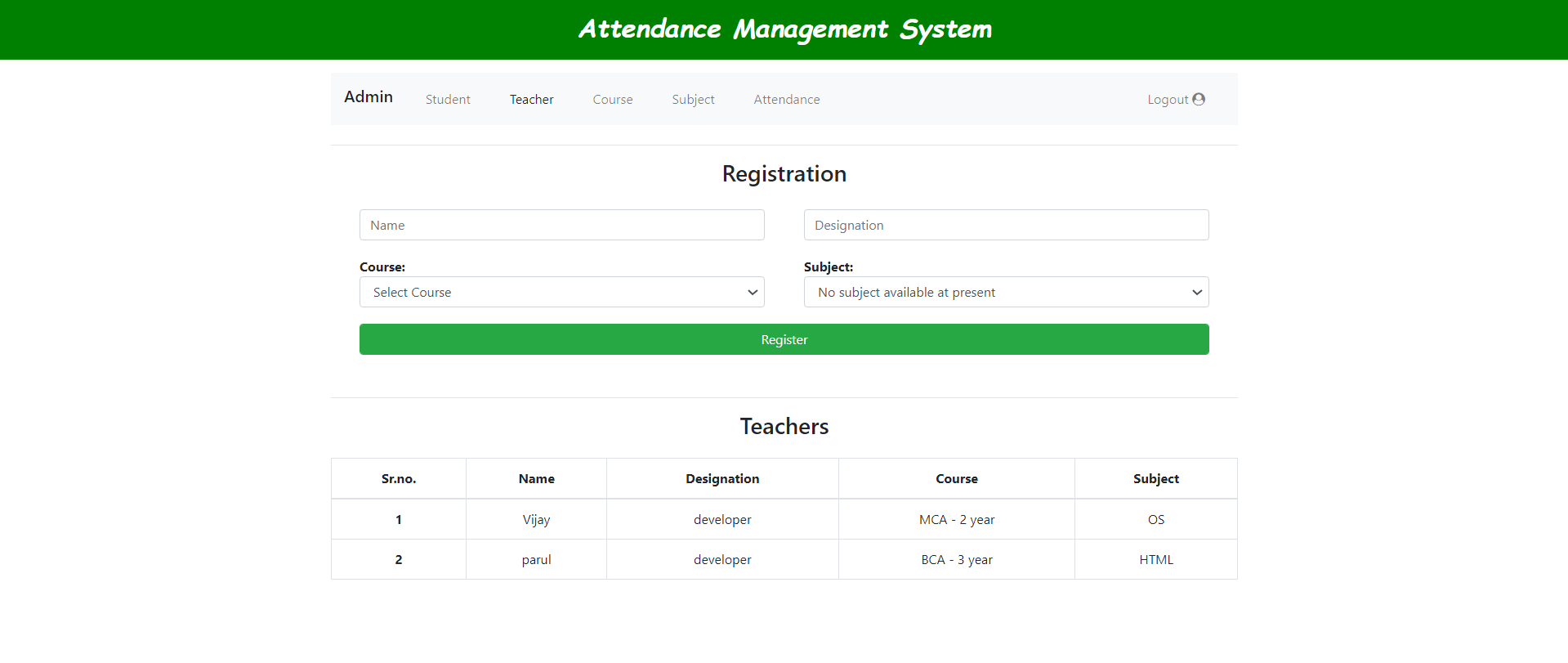
**Admin login**



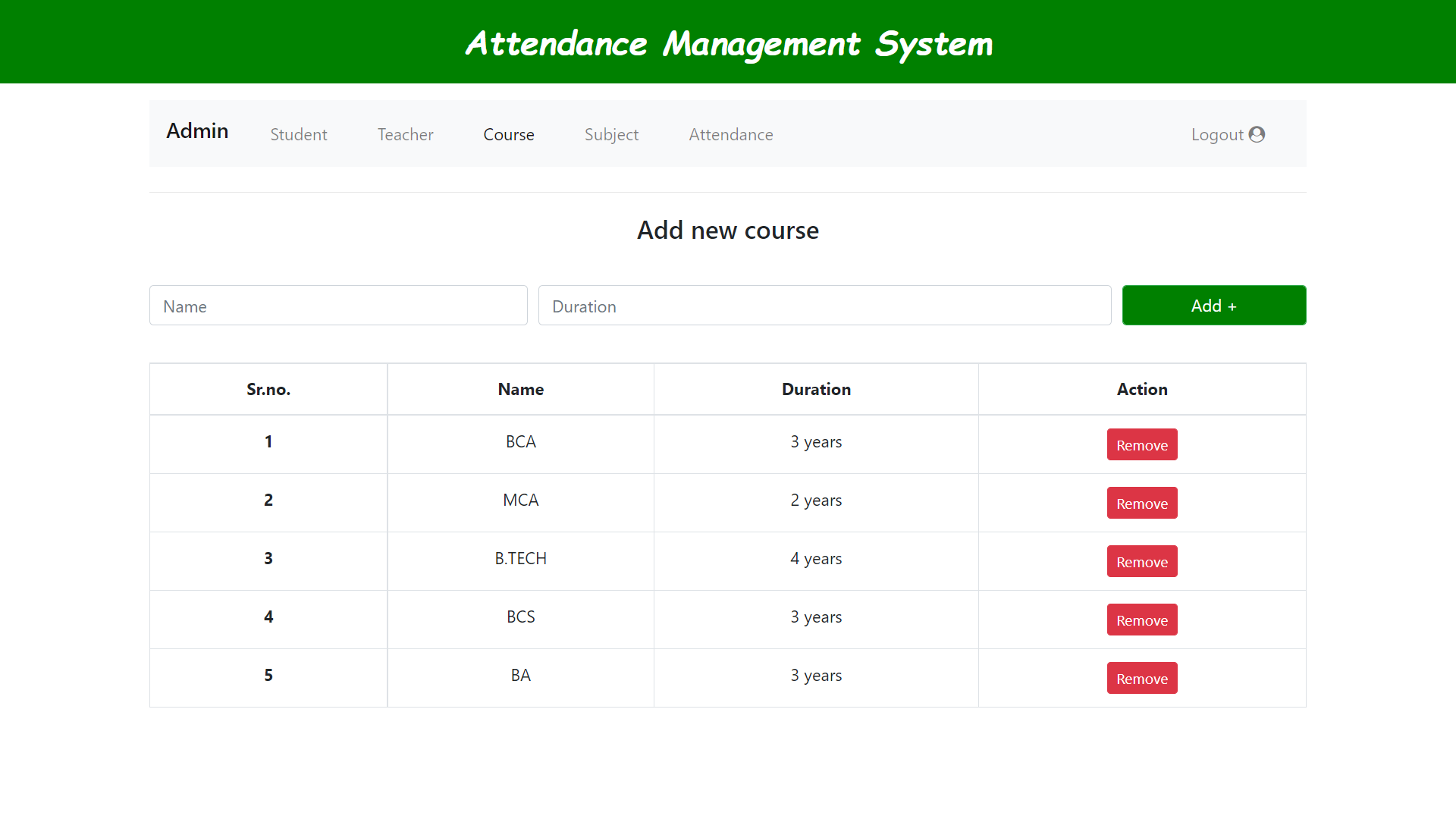
**Admin Dashboard – student section**

****

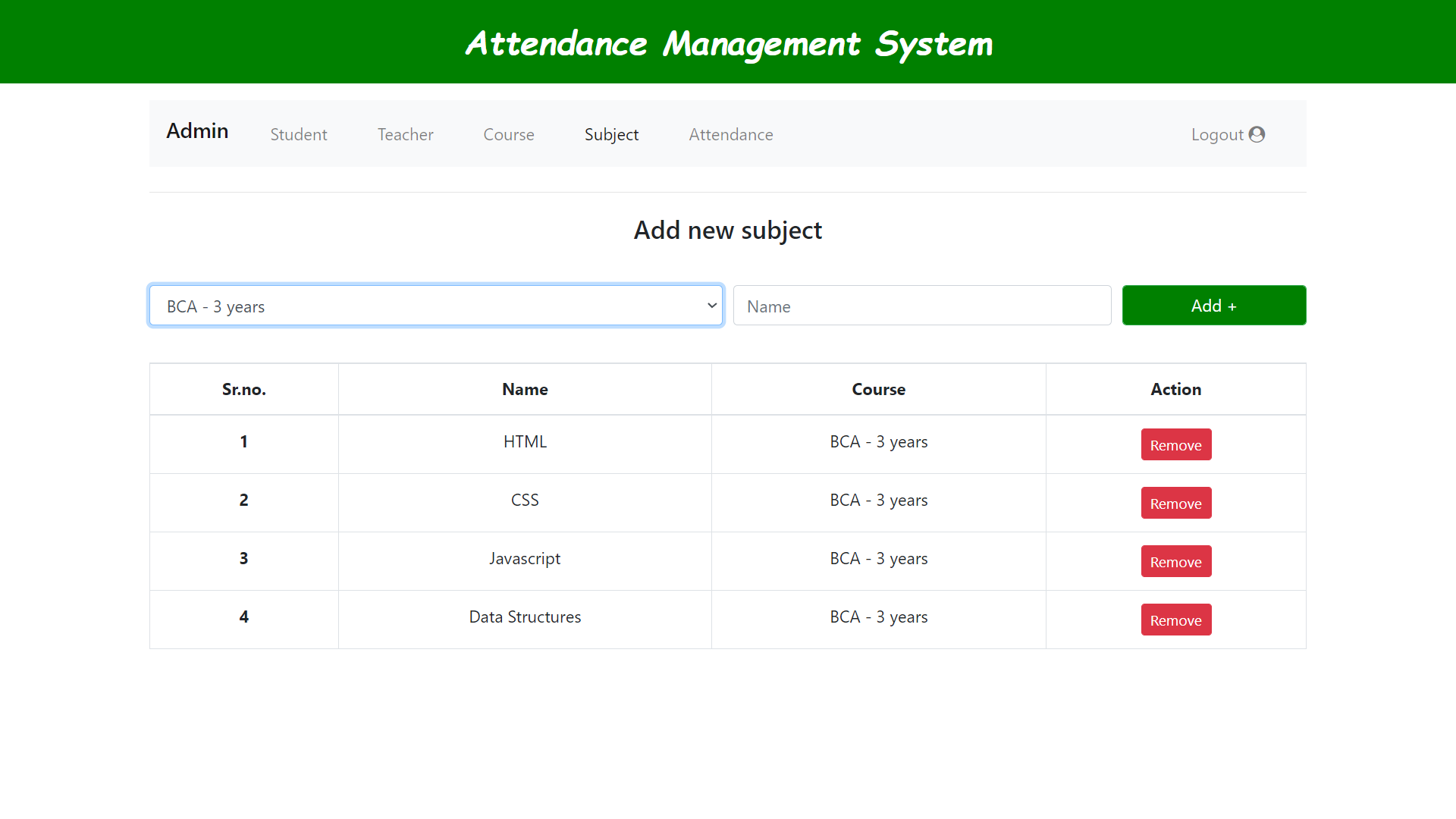
**Admin Dashboard – teacher section**

****

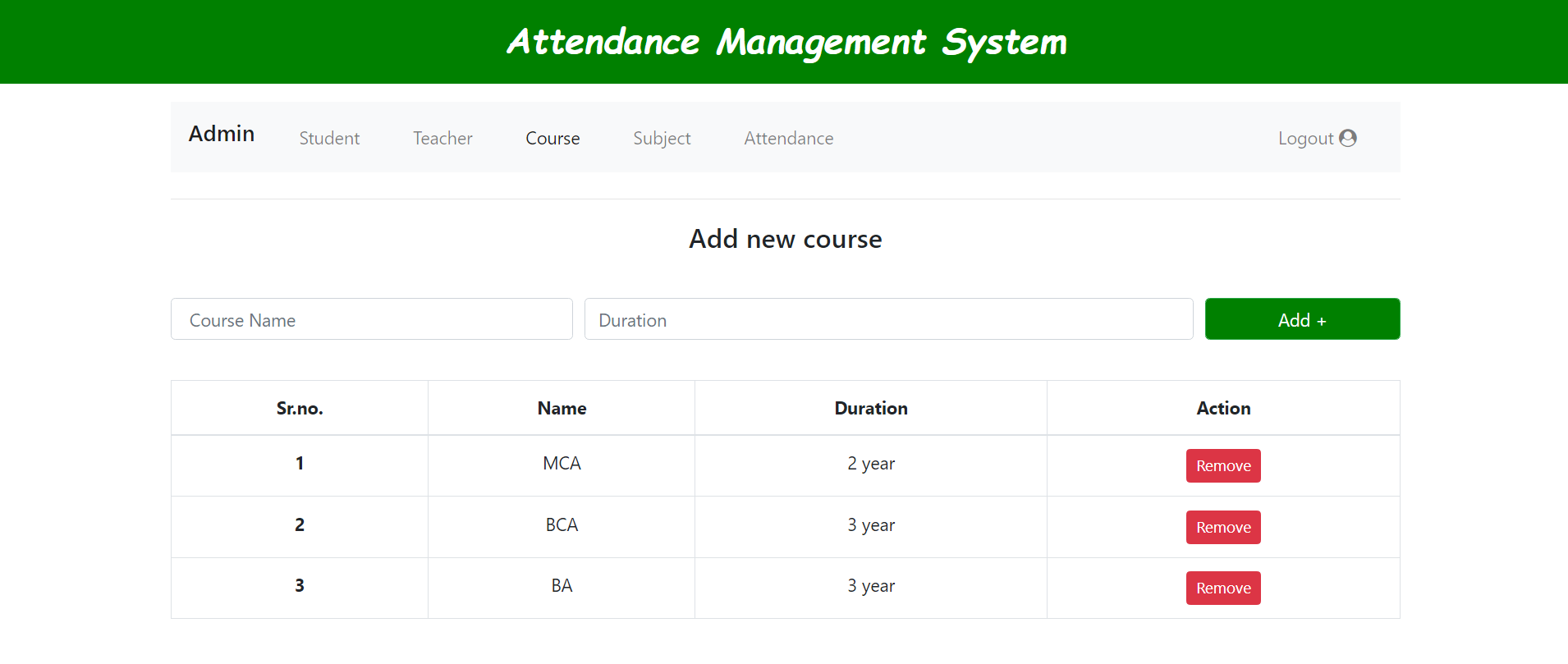
**Admin Dashboard – course section**



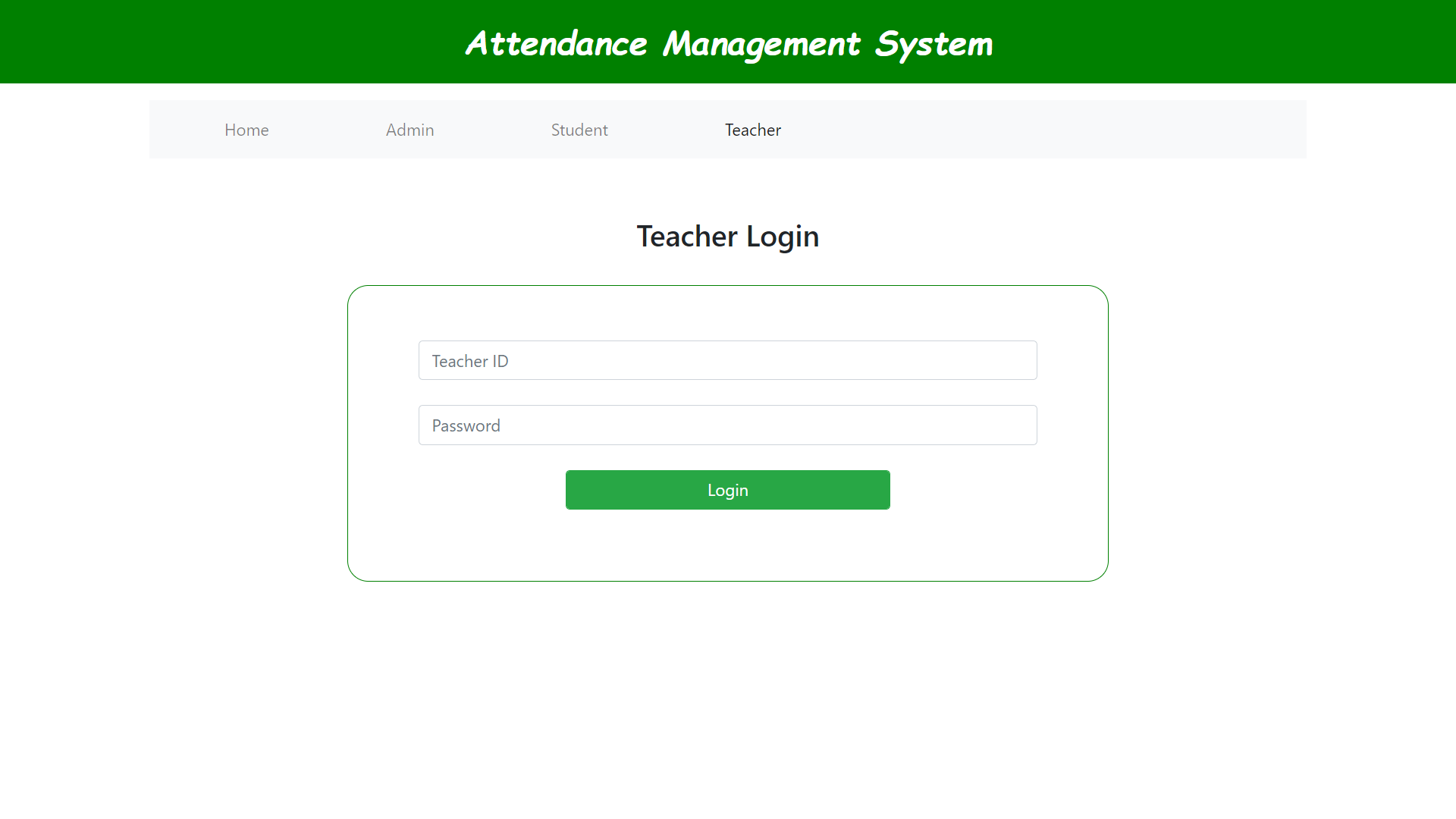
**Admin Dashboard – subject section**



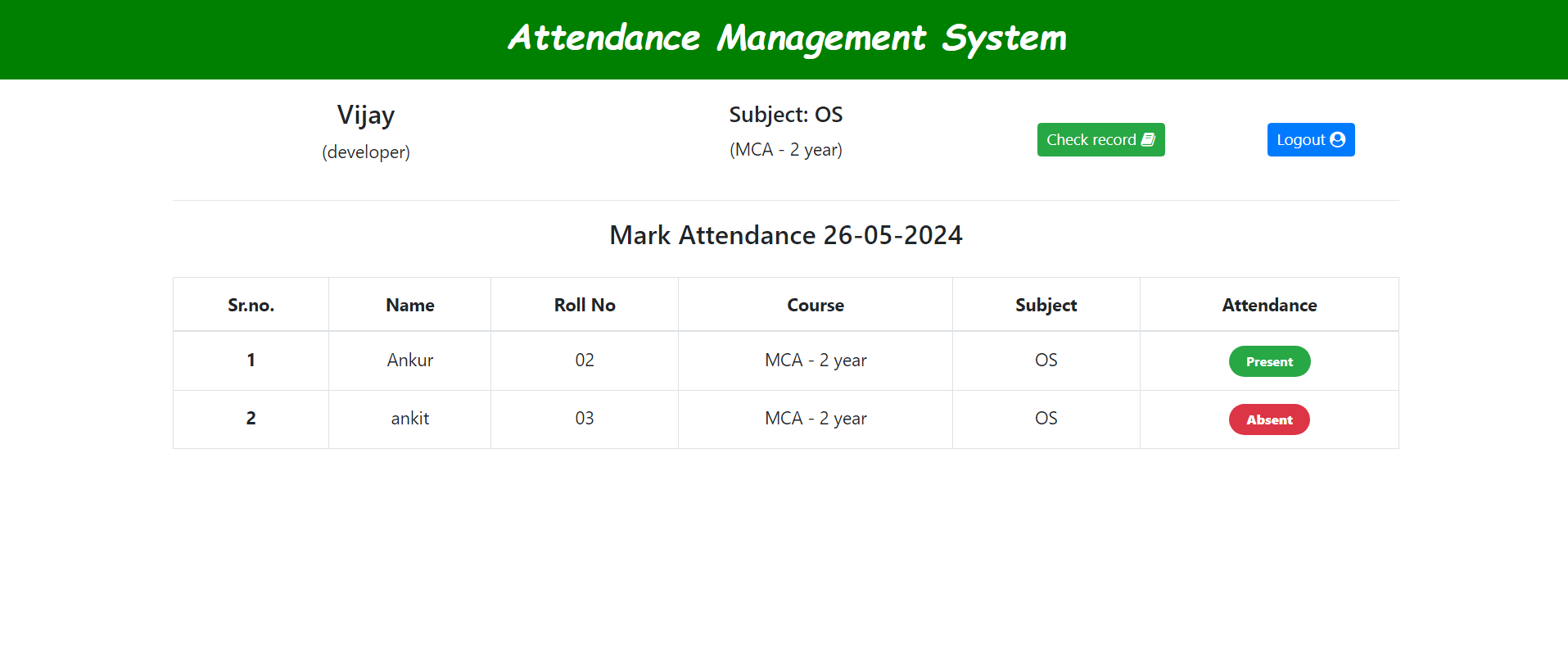
**Admin Dashboard – attendance section**

****

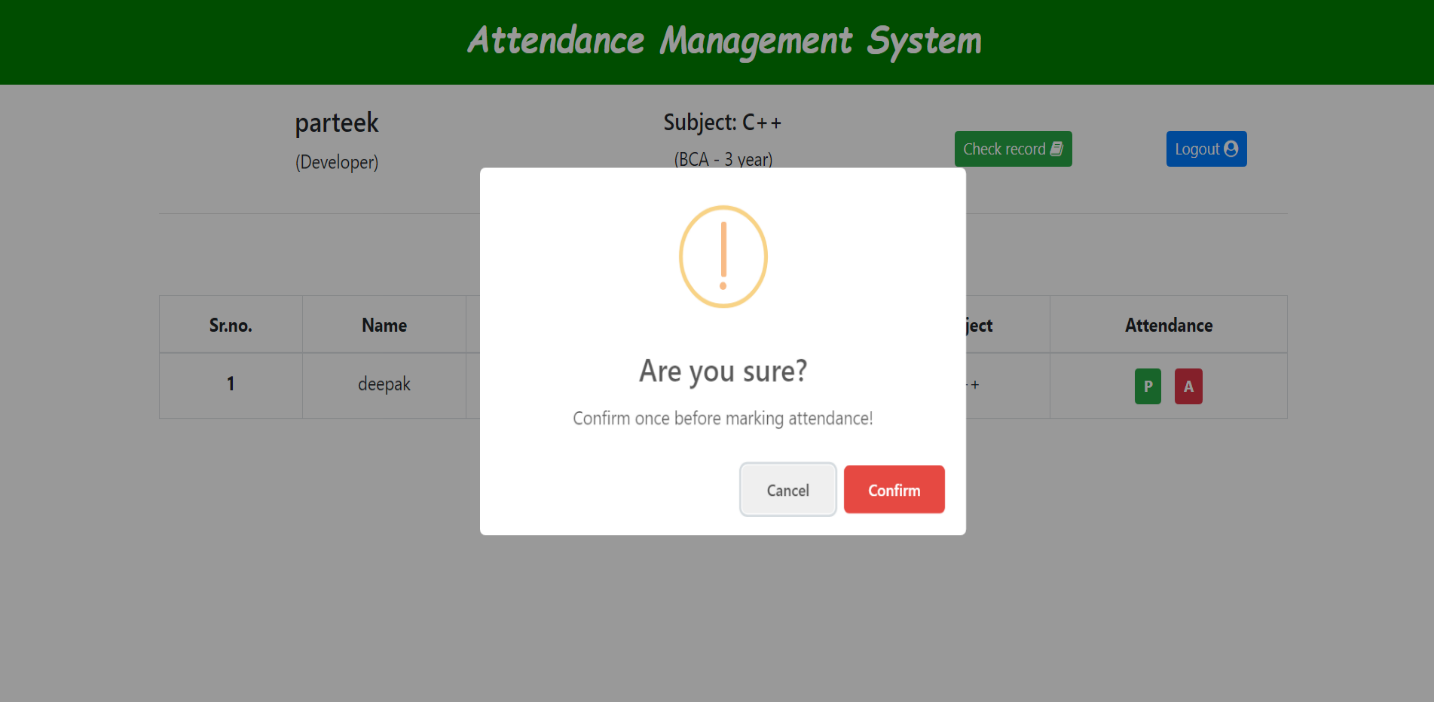
**Teacher login/sign-up**



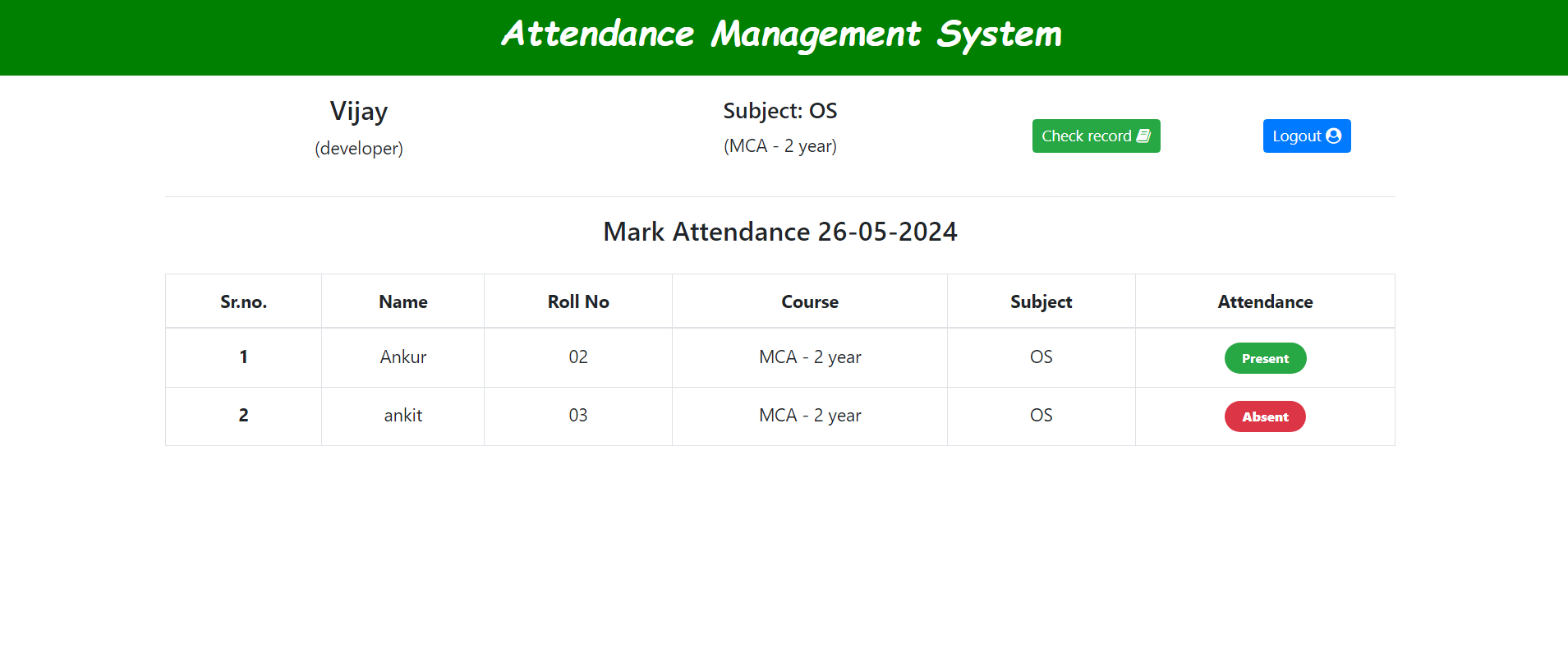
**Teacher dashboard**

****

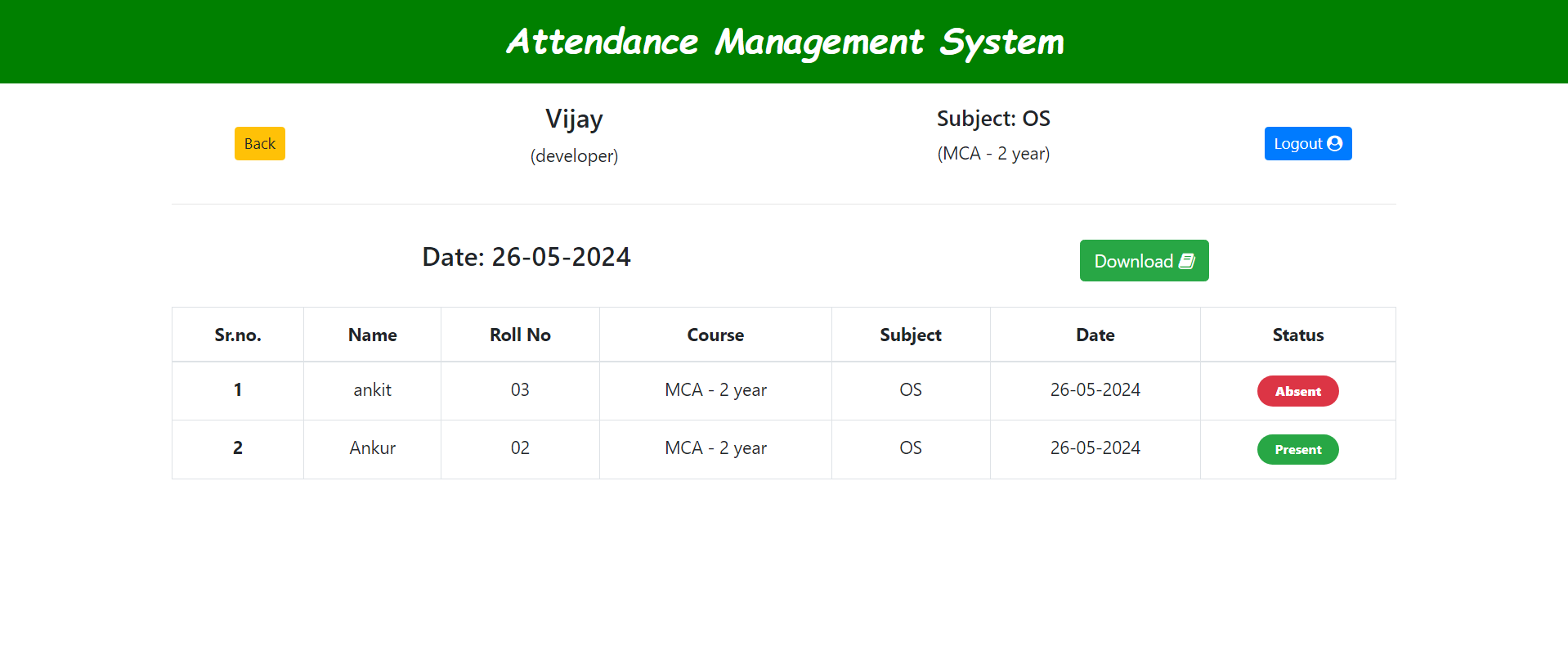
**Teacher marking attendance**

****

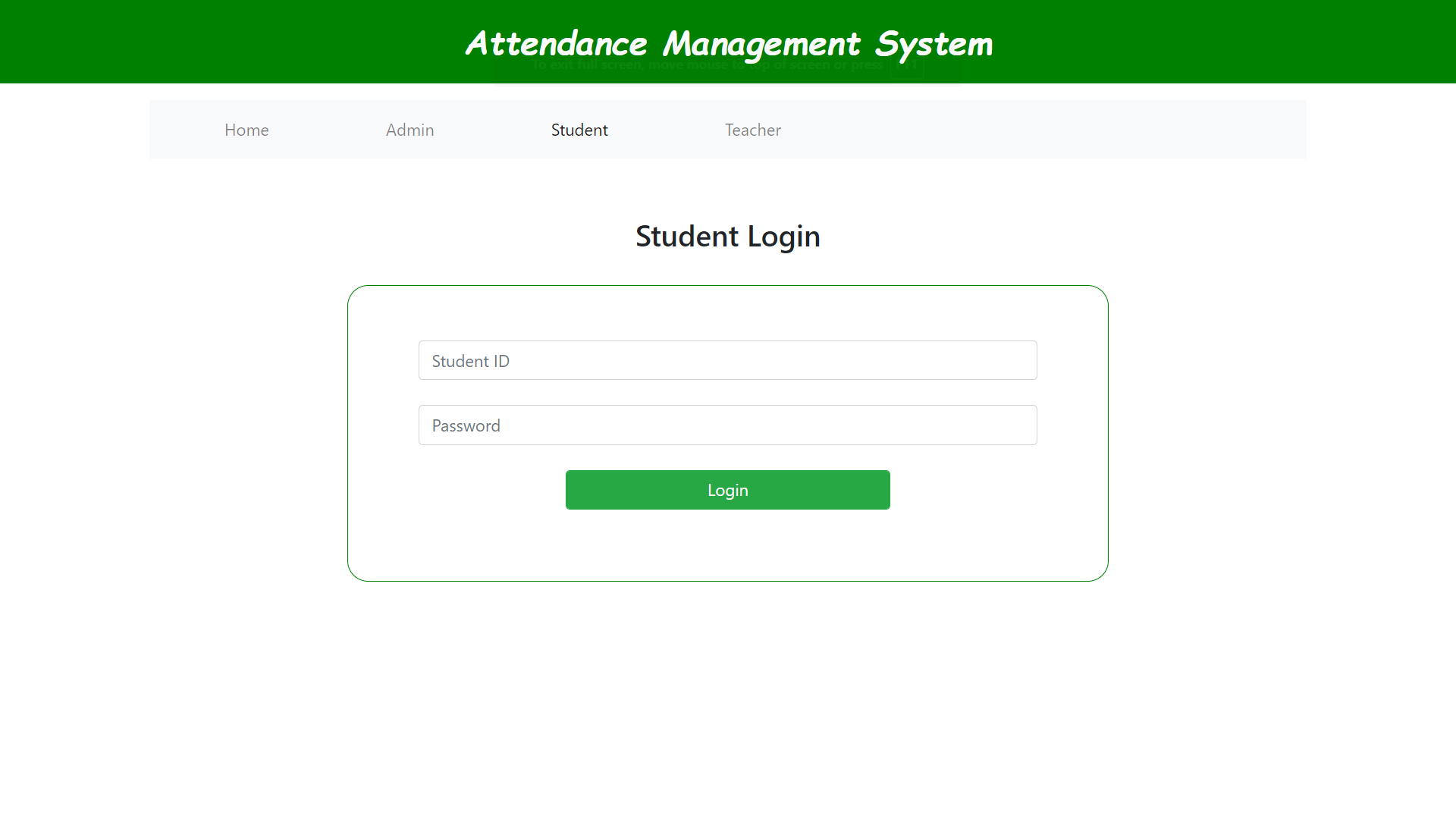
**Attendance marked**

****

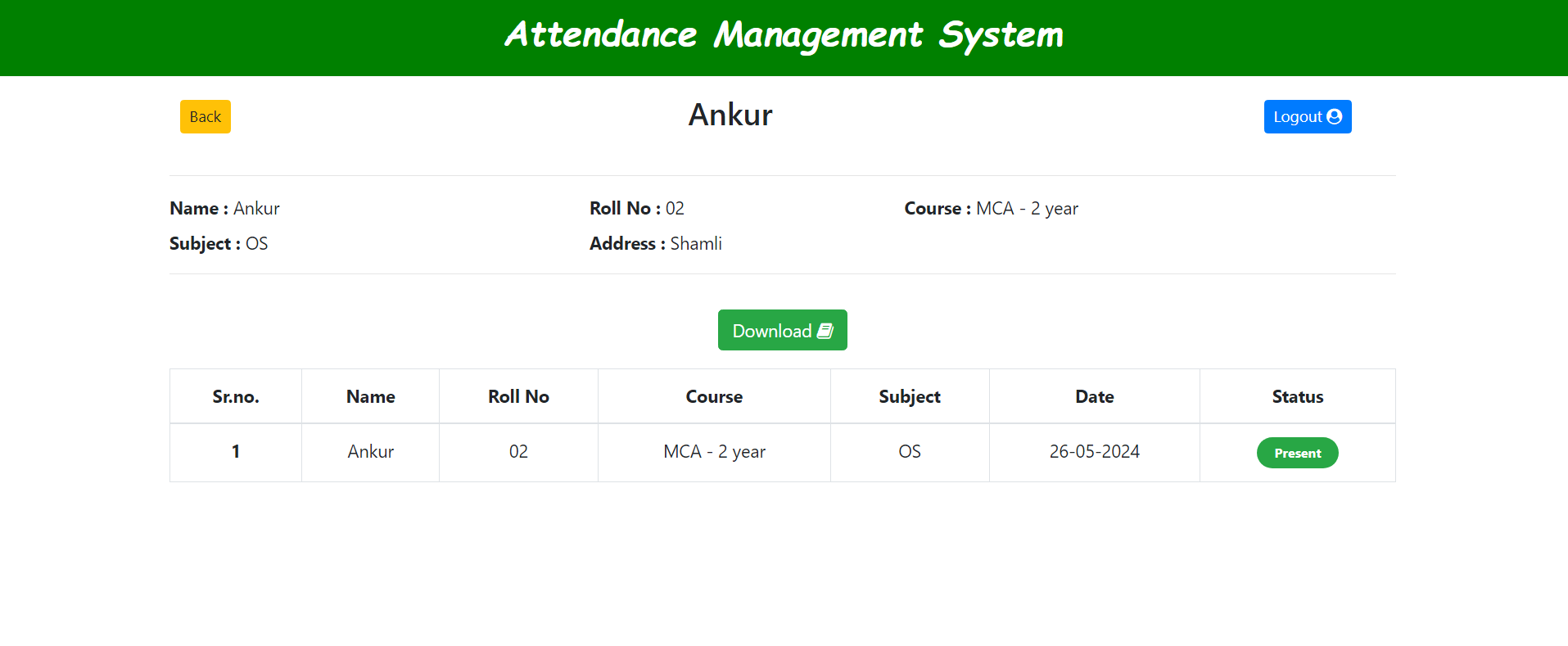
**Attendance records date wise**

****

**Student login/sign-up**



**Student dashboard - Attendance records date wise**

****

**SOURCE CODE**

**Homepage (Front end)**

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <title>Home - Attendance Management System</title>

  <link rel="stylesheet" href="resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="resources/css/stylesheet.css">

    <script src="resources/Jquery/jquery-3.5.1.js"></script>

    <script src="resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="resources/js/sweetalert.min.js"></script>

</head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row pt-3 pb-2">

            <div class="col-md-12 text-center">

                <nav class="navbar navbar-expand-lg navbar-light bg-light">

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav">

                    <li class="nav-item active px-5">

                        <a class="nav-link" href="index.php">Home</a>

                    </li>

                    <li class="nav-item px-5">

                        <a class="nav-link" href="routes/admin\_login.php">Admin</a>

                    </li>

                    <li class="nav-item px-5">

                        <a class="nav-link" href="routes/student\_login.php">Student</a>

                    </li>

                    <li class="nav-item px-5">

                        <a class="nav-link" href="routes/teacher\_login.php">Teacher</a>

                    </li>

                    </ul>

                </div>

                </nav>

            </div>

        </div>

        <br>

        <div class="row">

            <div class="col-md-12 text-center">

                <h1>Student Attendance Management System</h1><br>

                <img src="uploads/image.png" alt="" class="img-fluid" height="400" width="500"><br><br>

                <h5>Easy, fast, and simple solution!</h5>

            </div>

        </div>

    </div>

</div>

</body>

</html>

**Admin Login (Front end)**

<?php

 session\_start();

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.3/css/all.css" integrity="sha384-UHRtZLI+pbxtHCWp1t77Bi1L4ZtiqrqD80Kn4Z8NTSRyMA2Fd33n5dQ8lWUE00s/"

    crossorigin="anonymous">

  <title>Admin Login</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

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            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

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                <nav class="navbar navbar-expand-lg navbar-light bg-light">

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav">

                    <li class="nav-item px-5">

                        <a class="nav-link" href="../index.php">Home</a>

                    </li>

                    <li class="nav-item active px-5">

                        <a class="nav-link" href="../routes/admin\_login.php">Admin</a>

                    </li>

                    <li class="nav-item px-5">

                        <a class="nav-link" href="../routes/student\_login.php">Student</a>

                    </li>

                    <li class="nav-item px-5">

                        <a class="nav-link" href="../routes/teacher\_login.php">Teacher</a>

                    </li>

                    </ul>

                </div>

                </nav>

            </div>

        </div>

        <br>

        <div class="row py-4">

            <div class="col-md-2"></div>

            <div class="col-md-8 text-center">

                <h3 id="groups">Admin Login</h3><br>

                <div id="loginSection" class="text-center p-5">

                    <form>

                        <div class="form-row py-1">

                            <div class="form-group col-md-12 px-4">

                            <input type="text" id="id" class="form-control" placeholder="Admin ID">

                            </div>

                        </div>

                        <div class="form-row py-1">

                            <div class="form-group col-md-12 px-4">

                            <input id="pass" type="password" class="form-control" placeholder="Password">

                            </div>

                        </div>

                        <div class="form-row py-1">

                            <div class="col-md-3"></div>

                            <div class="form-group col-md-6">

                            <input type="button" onclick="loginFun()" id="loginbtn" class="form-control btn btn-success" value="Login">

                            </div>

                            <div class="col-md-3"></div>

                        </div>

                    </form>

                </div>

            </div>

            <div class="col-md-2"></div>

        </div>

    </div>

</div>

<script src="../resources/js/admin-login.js"></script>

</body>

</html>

**Admin Dashboard – student page (Front end)**

<?php

session\_start();

  if(!isset($\_SESSION['admin'])){

    header("location:../");

  }

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <title>Admin Dashboard - Student</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

</head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row pt-3 pb-2">

        <div class="col-md-12">

        <nav class="navbar navbar-expand-lg navbar-light bg-light">

            <a class="navbar-brand h1" href="#">Admin</a>

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav">

                    <li class="nav-item active px-3">

                        <a class="nav-link" href="../routes/admin\_dashboard.php">Student</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_teacher.php">Teacher</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/course.php">Course</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/subject.php">Subject</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_attendance.php">Attendance</a>

                    </li>

                    </ul>

                    <ul class="navbar-nav ml-auto">

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/logout.php">Logout <i class="fa fa-user-circle"></i></a>

                    </li>

                    </ul>

                </div>

                </nav>

        </div>

        </div>

        <hr>

        <div class="row">

            <div class="col-md-12">

                <center>

                <h3 id="groups">Registration</h3>

                </center>

                    <form>

                        <div class="form-row py-3">

                            <div class="form-group col-md-6 px-4">

                            <input type="text" id="rname" class="form-control" placeholder="Name">

                            </div>

                            <div class="form-group col-md-6 px-4">

                            <input id="rroll" type="text" class="form-control" placeholder="Roll No">

                            </div>

                        </div>

                        <div class="form-row">

                            <div class="form-group col-md-12 px-4">

                            <input id="radd" type="text" class="form-control" placeholder="Address">

                            </div>

                        </div>

                        <div class="form-row">

                            <div class="form-group col-md-6 px-4">

                                <b>Course:</b>

                                <select id="rcourse" class="form-control">

                                </select>

                            </div>

                            <div class="form-group col-md-6 px-4">

                                <b>Subject:</b>

                                <select id="rsub" class="form-control">

                                </select>

                            </div>

                        </div>

                        <div class="form-row py-1">

                            <div class="form-group col-md-12 px-4">

                            <input type="button" onclick="addStudent()" id="registerbtn" class="form-control btn btn-success" value="Register">

                            </div>

                        </div>

                    </form>

            </div>

        </div>

        <hr>

        <div class="row">

            <div class="col-md-12 text-center">

                <h3>Students</h3>

                <div class="py-3" id="studentList"></div>

            </div>

        </div>

    </div>

</div>

<script src="../resources/js/student.js"></script>

</body>

</html>

**Admin dashboard – teacher page (Front end)**

<?php

session\_start();

  if(!isset($\_SESSION['admin'])){

    header("location:../");

  }

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <title>Admin Dashboard - Teacher</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

</head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row pt-3 pb-2">

        <div class="col-md-12">

        <nav class="navbar navbar-expand-lg navbar-light bg-light">

            <a class="navbar-brand h1" href="#">Admin</a>

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav">

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_dashboard.php">Student</a>

                    </li>

                    <li class="nav-item active px-3">

                        <a class="nav-link" href="../routes/admin\_teacher.php">Teacher</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/course.php">Course</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_login.php">Subject</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_attendance.php">Attendance</a>

                    </li>

                    </ul>

                    <ul class="navbar-nav ml-auto">

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/logout.php">Logout <i class="fa fa-user-circle"></i></a>

                    </li>

                    </ul>

                </div>

                </nav>

        </div>

        </div>

        <hr>

        <div class="row">

        <div class="col-md-12">

                <center>

                <h3 id="groups">Registration</h3>

                </center>

                <div class="p-3">

                    <form>

                        <div class="form-row py-1">

                            <div class="form-group col-md-6 px-4">

                            <input type="text" id="rname" class="form-control" placeholder="Name">

                            </div>

                            <div class="form-group col-md-6 px-4">

                            <input id="rdes" type="text" class="form-control" placeholder="Designation">

                            </div>

                        </div>

                        <div class="form-row">

                            <div class="form-group col-md-6 px-4">

                                <b>Course:</b>

                                <select id="rcourse" class="form-control">

                                </select>

                            </div>

                            <div class="form-group col-md-6 px-4">

                                <b>Subject:</b>

                                <select id="rsub" class="form-control">

                                </select>

                            </div>

                        </div>

                        <div class="form-row py-1">

                            <div class="form-group col-md-12 px-4">

                            <input type="button" onclick="addTeacher()" id="registerbtn" class="form-control btn btn-success" value="Register">

                            </div>

                        </div>

                    </form>

                </div>

            </div>

        </div>

        <hr>

        <div class="row">

            <div class="col-md-12 text-center">

                <h3>Teachers</h3>

                <div class="py-3" id="teacherList"></div>

            </div>

        </div>

    </div>

</div>

<script src="../resources/js/teacher.js"></script>

</body>

</html>

**Admin Dashboard – course page (Front end)**

<?php

session\_start();

  if(!isset($\_SESSION['admin'])){

    header("location:../");

  }

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <title>Admin Dashboard - Course</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

</head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row pt-3 pb-2">

        <div class="col-md-12">

        <nav class="navbar navbar-expand-lg navbar-light bg-light">

            <a class="navbar-brand h1" href="#">Admin</a>

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav">

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_dashboard.php">Student</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_teacher.php">Teacher</a>

                    </li>

                    <li class="nav-item active px-3">

                        <a class="nav-link" href="../routes/course.php">Course</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/subject.php">Subject</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_attendance.php">Attendance</a>

                    </li>

                    </ul>

                    <ul class="navbar-nav ml-auto">

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/logout.php">Logout <i class="fa fa-user-circle"></i></a>

                    </li>

                    </ul>

                </div>

                </nav>

        </div>

        </div>

        <hr>

        <div class="row py-1">

            <div class="col-md-12 text-center">

                <form>

                    <div class="form-row">

                        <div class="form-group text-center col-md-12">

                        <h4>Add new course</h4>

                        </div>

                    </div>

                </form>

                <form>

                    <div class="form-row pt-3">

                        <div class="form-group col-md-4">

                            <input class="form-control" type="text" placeholder="Name" id="name">

                        </div>

                        <div class="form-group col-md-6">

                            <input class="form-control" type="text" placeholder="Duration" id="duration">

                        </div>

                        <div class="form-group col-md-2">

                            <button class="btn btn-success form-control" style="background-color:green" type="button" onclick="addCourse()">Add +</button>

                        </div>

                    </div>

                </form>

            </div>

        </div>

        <div class="row">

            <div class="col-md-12 text-center">

                <div class="py-3" id="courseList"></div>

            </div>

        </div>

    </div>

</div>

<script src="../resources/js/course.js"></script>

</body>

</html>

**Admin Dashboard – subject page (Front end)**

<?php

session\_start();

  if(!isset($\_SESSION['admin'])){

    header("location:../");

  }

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <title>Admin Dashboard - Subject</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

</head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row pt-3 pb-2">

        <div class="col-md-12">

        <nav class="navbar navbar-expand-lg navbar-light bg-light">

            <a class="navbar-brand h1" href="#">Admin</a>

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav">

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_dashboard.php">Student</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_teacher.php">Teacher</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/course.php">Course</a>

                    </li>

                    <li class="nav-item active px-3">

                        <a class="nav-link" href="../routes/subject.php">Subject</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_attendance.php">Attendance</a>

                    </li>

                    </ul>

                    <ul class="navbar-nav ml-auto">

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/logout.php">Logout <i class="fa fa-user-circle"></i></a>

                    </li>

                    </ul>

                </div>

                </nav>

        </div>

        </div>

        <hr>

        <div class="row py-1">

            <div class="col-md-12 text-center">

                <form>

                    <div class="form-row">

                        <div class="form-group text-center col-md-12">

                        <h4>Add new subject</h4>

                        </div>

                    </div>

                </form>

                <form>

                    <div class="form-row pt-3">

                        <div class="form-group col-md-6">

                            <select id="course" class="form-control">

                            </select>

                        </div>

                        <div class="form-group col-md-4">

                            <input class="form-control" type="text" placeholder="Name" id="name">

                        </div>

                        <div class="form-group col-md-2">

                            <button class="btn btn-success form-control" style="background-color:green" type="button" onclick="addSubject()">Add +</button>

                        </div>

                    </div>

                </form>

            </div>

        </div>

        <div class="row">

            <div class="col-md-12 text-center">

                <div class="py-3" id="subjectList"></div>

            </div>

        </div>

    </div>

</div>

<script src="../resources/js/subject.js"></script>

</body>

</html>

**Admin dashboard – attendance page (Front end)**

<?php

session\_start();

  if(!isset($\_SESSION['admin'])){

    header("location:../");

  }

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <title>Admin Dashboard - Attendance</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

</head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row pt-3 pb-2">

        <div class="col-md-12">

        <nav class="navbar navbar-expand-lg navbar-light bg-light">

            <a class="navbar-brand h1" href="#">Admin</a>

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav">

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_dashboard.php">Student</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/admin\_teacher.php">Teacher</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/course.php">Course</a>

                    </li>

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/subject.php">Subject</a>

                    </li>

                    <li class="nav-item active px-3">

                        <a class="nav-link" href="../routes/admin\_attendance.php">Attendance</a>

                    </li>

                    </ul>

                    <ul class="navbar-nav ml-auto">

                    <li class="nav-item px-3">

                        <a class="nav-link" href="../routes/logout.php">Logout <i class="fa fa-user-circle"></i></a>

                    </li>

                    </ul>

                </div>

                </nav>

        </div>

        </div>

        <hr>

        <div class="row">

            <div class="col-md-12 text-center">

                <div class="py-3" id="studentList"></div>

            </div>

        </div>

    </div>

</div>

<script>

getRecord();

function getRecord() {

  $.ajax({

    url: "../api/api.php",

    type: "POST",

    dataType: "json",

    contentType: "application/json",

    data: JSON.stringify({

      call: 13,

    }),

    success: function (data) {

      var studentsData = data;

      var sr = 1;

      var students = "";

      var record = '';

      var sid = '';

      var studentList = '';

      var status = '';

      if(studentsData==0){

        $("#studentList").html('<p>No records available.</p>');

      }

      else{

        $.each(studentsData, function (i, d) {

          status = (d.record==1) ? '<span class="badge badge-success badge-pill px-3 py-2">Present</span>' : '<span class="badge badge-danger badge-pill px-3 py-2"><b>Absent</b></span>';

          if(record==''){

            students =

            "<tr>" +

            '<th scope="row">' +

            sr +

            "</th>" +

            '<td colspan="2">' +

            d.name +

            "</td>" +

            '<td scope="col">' +

            d.roll\_no +

            "</td>" +

            '<td scope="col">' +

            d.course +

            "</td>" +

            '<td scope="col">' +

            d.subject +

            "</td>" +

            '<td scope="col">' +

            d.date +

            "</td>" +

            '<td scope="col">' +

            status +

            "</td>" +

            "</tr>";

            studentList += '<form method="POST" action="../api/admin\_attach.php"><div class="form-row"><div class="col-md-7 form-group"><h4 class="pb-2">Date: '+d.date+'</h4></div><div class="col-md-5 form-group"><input name="date" type="hidden" value="'+d.date+'"><button type="submit" name="getFile" class="btn btn-success">Download <i class="fa fa-book"></i></button></div></div></form><div class="table-responsive-md" style="background-color:white">' +

            '<table class="table table-bordered">' +

            "<thead>" +

            "<tr>" +

            '<th scope="col">Sr.no.</th>' +

            '<th colspan="2">Name</th>' +

            '<th scope="col">Roll No</th>' +

            '<th scope="col">Course</th>' +

            '<th scope="col">Subject</th>' +

            '<th scope="col">Date</th>' +

            '<th scope="col">Status</th>' +

            "</tr>" +

            "</thead>" +

            "<tbody>" +

            students;

            record = d.date;

            sr++;

            console.log(studentList);

          }

          else if(record==d.date){

            students =

            "<tr>" +

            '<th scope="row">' +

            sr +

            "</th>" +

            '<td colspan="2">' +

            d.name +

            "</td>" +

            '<td scope="col">' +

            d.roll\_no +

            "</td>" +

            '<td scope="col">' +

            d.course +

            "</td>" +

            '<td scope="col">' +

            d.subject +

            "</td>" +

            '<td scope="col">' +

            d.date +

            "</td>" +

            '<td scope="col">' +

            status +

            "</td>" +

            "</tr>";

            studentList+=students;

            record = d.date;

            sr++;

            console.log(studentList);

          }

          else if(record!=d.date){

            sr = 1;

            students =

            "<tr>" +

            '<th scope="row">' +

            sr +

            "</th>" +

            '<td colspan="2">' +

            d.name +

            "</td>" +

            '<td scope="col">' +

            d.roll\_no +

            "</td>" +

            '<td scope="col">' +

            d.course +

            "</td>" +

            '<td scope="col">' +

            d.subject +

            "</td>" +

            '<td scope="col">' +

            d.date +

            "</td>" +

            '<td scope="col">' +

            status +

            "</td>" +

            "</tr>";

            studentList+="</tbody>"+

            '</table></div><br><form method="POST" action="../api/admin\_attach.php"><div class="form-row"><div class="col-md-7 form-group"><h4 class="pb-2">Date: '+d.date+'</h4></div><div class="col-md-5 form-group"><input name="date" type="hidden" value="'+d.date+'"><button type="submit" name="getFile" class="btn btn-success">Download <i class="fa fa-book"></i></button></div></div></form><div class="table-responsive-md" style="background-color:white">' +

            '<table class="table table-bordered">' +

            "<thead>" +

            "<tr>" +

            '<th scope="col">Sr.no.</th>' +

            '<th colspan="2">Name</th>' +

            '<th scope="col">Roll No</th>' +

            '<th scope="col">Course</th>' +

            '<th scope="col">Subject</th>' +

            '<th scope="col">Date</th>' +

            '<th scope="col">Status</th>' +

            "</tr>" +

            "</thead>" +

            "<tbody>" +

            students;

            record = d.date;

            sr++;

          }

        });

        $("#studentList").html(studentList);

      }

    },

  });

}

</script>

</body>

</html>

**Teacher login (Front end)**

<?php

 session\_start();

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.3/css/all.css" integrity="sha384-UHRtZLI+pbxtHCWp1t77Bi1L4ZtiqrqD80Kn4Z8NTSRyMA2Fd33n5dQ8lWUE00s/"

    crossorigin="anonymous">

  <title>Teacher Login</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

</head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row pt-3 pb-2">

        <div class="col-md-12">

        <nav class="navbar navbar-expand-lg navbar-light bg-light">

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav">

                    <li class="nav-item px-5">

                        <a class="nav-link" href="../index.php">Home</a>

                    </li>

                    <li class="nav-item px-5">

                        <a class="nav-link" href="../routes/admin\_login.php">Admin</a>

                    </li>

                    <li class="nav-item px-5">

                        <a class="nav-link" href="../routes/student\_login.php">Student</a>

                    </li>

                    <li class="nav-item active px-5">

                        <a class="nav-link" href="../routes/teacher\_login.php">Teacher</a>

                    </li>

                    </ul>

                </div>

                </nav>

        </div>

        </div>

        <br>

        <div class="row py-4 ">

            <div class="col-md-2"></div>

            <div class="col-md-8 text-center">

                <h3 id="groups">Teacher Login</h3><br>

                <div id="loginSection" class="text-center p-5 align-items-center">

                    <form>

                        <div class="form-row py-1 ">

                            <div class="form-group col-md-12 px-4">

                            <input type="text" id="id" class="form-control" placeholder="Teacher ID">

                            </div>

                        </div>

                        <div class="form-row py-1">

                            <div class="form-group col-md-12 px-4">

                            <input id="pass" type="password" class="form-control" placeholder="Password">

                            </div>

                        </div>

                        <div class="form-row py-1">

                            <div class="col-md-3"></div>

                            <div class="form-group col-md-6">

                            <input type="button" onclick="loginFun()" id="loginbtn" class="form-control btn btn-success" value="Login">

                            </div>

                            <div class="col-md-3"></div>

                        </div>

                    </form>

                </div>

            </div>

            <div class="col-md-2"></div>

        </div>

    </div>

</div>

<script src="../resources/js/teacher-login.js"></script>

</body>

</html>

**Teacher dashboard (Front end)**

<?php

    session\_start();

    if(!isset($\_SESSION['teacher'])){

        header('location:../');

    }

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <title>Dashboard - Attendance Management System</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

    </head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row align-items-center pt-3">

            <div class="col-md-4 text-center">

                <h4><?php echo $\_SESSION['teachername']?></h4>

                <p>(<?php echo  $\_SESSION['designation']?>)</p>

            </div>

            <div class="col-md-4 text-center">

                <h5>Subject: <?php echo $\_SESSION['subject']?></h5>

                <p>(<?php echo $\_SESSION['course']?>)</p>

            </div>

            <div class="col-md-2 text-center">

                <a href="record.php"><button class="btn btn-sm btn-success">Check record <i class="fa fa-book"></i></button></a>

            </div>

            <div class="col-md-2 text-center">

                <a href="logout.php"><button class="btn btn-sm btn-primary">Logout <i class="fa fa-user-circle"></i></button></a>

            </div>

        </div>

        <hr>

        <div class="row">

            <div class="col-md-12 text-center">

                <h4>Mark Attendance <?php echo date('d-m-Y') ?> </h4>

                <div class="py-3" id="studentList"></div>

            </div>

        </div>

    </div>

</div>

<script src="../resources/js/teacher-dashboard.js"></script>

</body>

</html>

**Attendance record in teacher panel (Front end)**

<?php

    session\_start();

    if(!isset($\_SESSION['teacher'])){

        header('location:../');

    }

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <title>Dashboard - Attendance Management System</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

    </head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row align-items-center pt-3">

            <div class="col-md-2 text-center">

                <a href="teacher\_dashboard.php"><button class="btn btn-sm btn-warning">Back</button></a>

            </div>

            <div class="col-md-4 text-center">

                <h4><?php echo $\_SESSION['teachername']?></h4>

                <p>(<?php echo  $\_SESSION['designation']?>)</p>

            </div>

            <div class="col-md-4 text-center">

                <h5>Subject: <?php echo $\_SESSION['subject']?></h5>

                <p>(<?php echo $\_SESSION['course']?>)</p>

            </div>

            <div class="col-md-2 text-center">

                <a href="logout.php"><button class="btn btn-sm btn-primary">Logout <i class="fa fa-user-circle"></i></button></a>

            </div>

        </div>

        <hr>

        <div class="row">

            <div class="col-md-12 text-center">

                <div class="py-3" id="studentList"></div>

            </div>

        </div>

    </div>

</div>

<script src="../resources/js/record.js"></script>

</body>

</html>

**Student login (Front end)**

<?php

 session\_start();

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.3/css/all.css" integrity="sha384-UHRtZLI+pbxtHCWp1t77Bi1L4ZtiqrqD80Kn4Z8NTSRyMA2Fd33n5dQ8lWUE00s/"

    crossorigin="anonymous">

  <title>Student Login</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

</head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row pt-3 pb-2">

        <div class="col-md-12">

        <nav class="navbar navbar-expand-lg navbar-light bg-light">

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav">

                    <li class="nav-item px-5">

                        <a class="nav-link" href="../index.php">Home</a>

                    </li>

                    <li class="nav-item px-5">

                        <a class="nav-link" href="../routes/admin\_login.php">Admin</a>

                    </li>

                    <li class="nav-item active px-5">

                        <a class="nav-link" href="../routes/student\_login.php">Student</a>

                    </li>

                    <li class="nav-item px-5">

                        <a class="nav-link" href="../routes/teacher\_login.php">Teacher</a>

                    </li>

                    </ul>

                </div>

                </nav>

        </div>

        </div>

        <br>

        <div class="row py-4 ">

        <div class="col-md-2"></div>

            <div class="col-md-8 text-center">

                <h3 id="groups">Student Login</h3><br>

                <div id="loginSection" class="text-center p-5 align-items-center">

                    <form>

                        <div class="form-row py-1 ">

                            <div class="form-group col-md-12 px-4">

                            <input type="text" id="id" class="form-control" placeholder="Student ID">

                            </div>

                        </div>

                        <div class="form-row py-1">

                            <div class="form-group col-md-12 px-4">

                            <input id="pass" type="password" class="form-control" placeholder="Password">

                            </div>

                        </div>

                        <div class="form-row py-1">

                            <div class="col-md-3"></div>

                            <div class="form-group col-md-6">

                            <input type="button" onclick="loginFun()" id="loginbtn" class="form-control btn btn-success" value="Login">

                            </div>

                            <div class="col-md-3"></div>

                        </div>

                    </form>

                </div>

            </div>

            <div class="col-md-2"></div>

        </div>

    </div>

</div>

<script src="../resources/js/student-login.js"></script>

</body>

</html>

**Student dashboard (Front end)**

<?php

    session\_start();

    if(!isset($\_SESSION['student'])){

        header('location:../');

    }

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <title>Student Dashboard - Attendance Management System</title>

  <link rel="stylesheet" href="../resources/Bootstrap/css/bootstrap.min.css">

    <link rel="stylesheet" href="../resources/font-awesome/css/font-awesome.min.css">

    <link rel="stylesheet" href="../resources/css/stylesheet.css">

    <script src="../resources/Jquery/jquery-3.5.1.js"></script>

    <script src="../resources/Bootstrap/js/bootstrap.min.js"></script>

    <script src="../resources/js/sweetalert.min.js"></script>

    </head>

<body>

<div id="headerSection" class="sticky-top">

    <div class="container" >

        <div class="row">

            <div class="col-sm-12 text-center pt-3">

                <p id="brand">Attendance Management System</p>

            </div>

        </div>

    </div>

</div>

<div id="bodySection">

    <div class="container">

        <div class="row align-items-center py-3">

            <div class="col-md-1 text-center">

                <a href="teacher\_dashboard.php"><button class="btn btn-sm btn-warning">Back</button></a>

            </div>

            <div class="col-md-9 text-center">

                <h3><?php echo $\_SESSION['studentname']?></h3>

            </div>

            <div class="col-md-2 text-center">

                <a href="logout.php"><button class="btn btn-sm btn-primary">Logout <i class="fa fa-user-circle"></i></button></a>

            </div>

        </div>

        <hr>

        <div class="row pb-2">

            <div class="col-md-4">

                <b>Name : </b> <?php echo $\_SESSION['studentname'] ?><br>

            </div>

            <div class="col-md-3">

                <b>Roll No : </b> <?php echo $\_SESSION['roll'] ?><br>

            </div>

            <div class="col-md-5">

                <b>Course : </b> <?php echo $\_SESSION['course'] ?><br>

            </div>

        </div>

        <div class="row">

            <div class="col-md-4">

                <b>Subject : </b> <?php echo $\_SESSION['subject'] ?><br>

            </div>

            <div class="col-md-8">

                <b>Address : </b> <?php echo $\_SESSION['address'] ?>

            </div>

        </div>

        <hr>

        <div class="row">

            <div class="col-md-12 text-center">

                <div class="py-3" id="studentList"></div>

            </div>

        </div>

    </div>

</div>

<script src="../resources/js/student-dashboard.js"></script>

</body>

</html>

**CSS (Front end)**

#headerSection {

  background-color: green;

}

#brand {

  font-weight: 600;

  color: white;

  font-style: italic;

  font-family: cursive;

  font-size: xx-large;

}

#loginSection {

  padding: 15px;

  border: 1px solid green;

  background-color: white;

  border-radius: 20px;

}

#adminSection {

  padding: 15px;

  border: 1px solid #34495e;

  background-color: white;

  border-radius: 20px;

}

#component {

  background-color: white;

  border-radius: 10px;

}

**Database connection (back end)**

<?php

    $con = mysqli\_connect('localhost','root','','attendance-major') or die('connection error');

?>

**API (backened)**

<?php

// SESSION START

session\_start();

// IMPORT DATABASE CONNECTION FILE

include('connect.php');

// DECODE JSON DATA

$json = json\_decode(file\_get\_contents("php://input"),true);

// ADMIN LOGIN

if($json['call']==1){

    $id = $json['id'];

    $pass = $json['pass'];

    $admin\_id = 1234;

    $admin\_pass = 1234;

    if($id == $admin\_id and $pass == $admin\_pass){

        $\_SESSION['admin']=$id;

        echo json\_encode(1);

    }

    else{

        echo json\_encode(0);

    }

}

// GET COURSES

if($json['call']==2){

    $courses = mysqli\_query($con, "select id, name, duration from course");

    if(mysqli\_num\_rows($courses)>0){

        $course = mysqli\_fetch\_all($courses, MYSQLI\_ASSOC);

        $empty = mysqli\_free\_result($courses);

        echo json\_encode($course);

    }

    else{

        echo json\_encode(0);

    }

}

// GET SUBJECTS

if($json['call']==3){

    $course = $json['course'];

    $subjects = mysqli\_query($con, "select id, name, course from subject where course='$course'");

    if(mysqli\_num\_rows($subjects)>0){

        $subject = mysqli\_fetch\_all($subjects, MYSQLI\_ASSOC);

        $empty = mysqli\_free\_result($subjects);

        echo json\_encode($subject);

    }

    else{

        echo json\_encode(0);

    }

}

// GET SUBJECTS ON CHANGE OF COURSE

if($json['call']==4){

    $name = $json['name'];

    $subjects = mysqli\_query($con, "select id, name, course from subject where course='$name'");

    if(mysqli\_num\_rows($subjects)>0){

        $subject = mysqli\_fetch\_all($subjects, MYSQLI\_ASSOC);

        $empty = mysqli\_free\_result($subjects);

        echo json\_encode($subject);

    }

    else{

        echo json\_encode(0);

    }

}

// GET STUDENTS IN ADMIN DASHBOARD

if($json['call']==5){

    $getStudents = mysqli\_query($con, "select name, roll\_no, course, subject, address from student");

    if(mysqli\_num\_rows($getStudents)>0){

        $students = mysqli\_fetch\_all($getStudents, MYSQLI\_ASSOC);

        $empty = mysqli\_free\_result($getStudents);

        echo json\_encode($students);

    }

    else{

        echo json\_encode($response['success']=0);

    }

}

// ADD NEW STUDENT

if($json['call']==6){

    $name = $json['name'];

    $course = $json['course'];

    $roll = $json['roll'];

    $sub = $json['sub'];

    $add = $json['add'];

    $id = mt\_rand(10000,99999);

    $n = 8;

    function getPass($n) {

        $characters = '0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ@$';

        $randomString = '';

        for($i = 0; $i<$n; $i++){

            $index = rand(0, strlen($characters) - 1);

            $randomString.= $characters[$index];

        }

        return $randomString;

    }

    $pass = getPass($n);

    $check = mysqli\_query($con, "select \* from student where roll\_no='$roll' and subject='$sub' and course='$course' ");

    if(mysqli\_num\_rows($check)>0){

        echo json\_encode(2);

    }

    else{

        $query = mysqli\_query($con, "insert into student (name, roll\_no, course, subject, s\_id, password, address) values('$name','$roll','$course','$sub','$id','$pass','$add')");

        if($query){

            echo json\_encode([1, $id, $pass]);

        }

        else{

            echo json\_encode(0);

        }

    }

}

// GET TEACHERS IN ADMIN DASHBOARD

if($json['call']==7){

    $getTeachers = mysqli\_query($con, "select name, designation, course, subject from faculty");

    if(mysqli\_num\_rows($getTeachers)>0){

        $teachers = mysqli\_fetch\_all($getTeachers, MYSQLI\_ASSOC);

        $empty = mysqli\_free\_result($getTeachers);

        echo json\_encode($teachers);

    }

    else{

        echo json\_encode($response['success']=0);

    }

}

// ADD NEW TEACHER

if($json['call']==8){

    $name = $json['name'];

    $des = $json['des'];

    $sub = $json['sub'];

    $course = $json['course'];

    $id = mt\_rand(10000,99999);

    $n = 8;

    function getPass($n) {

        $characters = '0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ@$';

        $randomString = '';

        for($i = 0; $i<$n; $i++){

            $index = rand(0, strlen($characters) - 1);

            $randomString.= $characters[$index];

        }

        return $randomString;

    }

    $pass = getPass($n);

    $check = mysqli\_query($con, "select \* from faculty where course='$course' and subject='$sub' ");

    if(mysqli\_num\_rows($check)>0){

        echo json\_encode(2);

    }

    else{

        $query = mysqli\_query($con, "insert into faculty (name, designation, course, subject, t\_id, password) values('$name','$des', '$course', '$sub','$id', '$pass')");

        if($query){

            echo json\_encode([1, $id, $pass]);

        }

        else{

            echo json\_encode(0);

        }

    }

}

// ADD NEW COURSE

if($json['call']==9){

    $name = $json['name'];

    $duration = $json['duration'];

    $check = mysqli\_query($con, "select \* from course where name='$name' and duration='$duration'");

    if(mysqli\_num\_rows($check)>0){

        echo json\_encode(2);

    }

    else{

        $query = mysqli\_query($con, "insert into course (name, duration) values('$name','$duration')");

        if($query){

            echo json\_encode(1);

        }

        else{

            echo json\_encode(0);

        }

    }

}

// REMOVE COURSE

if($json['call']==10){

    $id = $json['id'];

    $delete = mysqli\_query($con, "delete from course where id ='$id' ");

    if($delete){

        echo json\_encode(1);

    }

    else{

        echo json\_encode(0);

    }

}

// ADD NEW SUBJECT

if($json['call']==11){

    $name = $json['name'];

    $course = $json['course'];

    $check = mysqli\_query($con, "select \* from subject where name='$name' and course='$course'");

    if(mysqli\_num\_rows($check)>0){

        echo json\_encode(2);

    }

    else{

        $query = mysqli\_query($con, "insert into subject (name, course) values('$name','$course')");

        if($query){

            echo json\_encode(1);

        }

        else{

            echo json\_encode(0);

        }

    }

}

// REMOVE SUBJECT

if($json['call']==12){

    $id = $json['id'];

    $delete = mysqli\_query($con, "delete from subject where id ='$id' ");

    if($delete){

        echo json\_encode(1);

    }

    else{

        echo json\_encode(0);

    }

}

// GET ATTENDANCE RECORD IN ADMIN DASHBOARD

if($json['call']==13){

    $query = mysqli\_query($con, "select student.id, student.name, student.roll\_no, student.course, student.subject, record.sid, record.status, record.date, record.record from student LEFT JOIN record ON student.id = record.sid where student.id=record.sid ORDER BY record.date DESC");

    if(mysqli\_num\_rows($query)>0){

        $records = mysqli\_fetch\_all($query, MYSQLI\_ASSOC);

        $empty = mysqli\_free\_result($query);

        echo json\_encode($records);

    }

    else{

        echo json\_encode(0);

    }

}

// STUDENT LOGIN

if($json['call']==14){

    $id = $json['id'];

    $pass = $json['pass'];

    $check = mysqli\_query($con, "select \* from student where s\_id='$id' and password='$pass'");

    if(mysqli\_num\_rows($check)>0){

        $detail = mysqli\_query($con, "select id, name, roll\_no, course, subject, address from student where s\_id = '$id' and password='$pass' ");

        $data = mysqli\_fetch\_array($detail);

        $\_SESSION['student'] = $data['id'];

        $\_SESSION['studentname'] = $data['name'];

        $\_SESSION['roll'] = $data['roll\_no'];

        $\_SESSION['course'] = $data['course'];

        $\_SESSION['subject'] = $data['subject'];

        $\_SESSION['address'] = $data['address'];

        echo json\_encode(1);

    }

    else{

        echo json\_encode(0);

    }

}

// GET ATTENDANCE RECORD IN STUDENT DASHBOARD

if($json['call']==15){

    $sid = $\_SESSION['student'];

    $query = mysqli\_query($con, "select student.id, student.name, student.roll\_no, student.course, student.subject, record.sid, record.status, record.date, record.record from student LEFT JOIN record ON student.id = record.sid where record.sid='$sid' ORDER BY record.id DESC");

    if(mysqli\_num\_rows($query)>0){

        $records = mysqli\_fetch\_all($query, MYSQLI\_ASSOC);

        $empty = mysqli\_free\_result($query);

        echo json\_encode($records);

    }

    else{

        echo json\_encode(0);

    }

}

// TEACHER LOGIN

if($json['call']==16){

    $id = $json['id'];

    $pass = $json['pass'];

    $check = mysqli\_query($con, "select \* from faculty where t\_id='$id' and password='$pass'");

    if(mysqli\_num\_rows($check)>0){

        $\_SESSION['teacher']=$id;

        $detail = mysqli\_query($con, "select name, designation, course, subject from faculty where t\_id='$id' and password='$pass' ");

        $data = mysqli\_fetch\_array($detail);

        $\_SESSION['teachername'] = $data['name'];

        $\_SESSION['designation'] = $data['designation'];

        $\_SESSION['subject'] = $data['subject'];

        $\_SESSION['course'] = $data['course'];

        echo json\_encode(1);

    }

    else{

        echo json\_encode(0);

    }

}

// GET STUDENTS IN TEACHER DASHBOARD

if($json['call']==17){

    $day = date('d');

    $month = date('m');

    $year = date('Y');

    $date = [$day, $month, $year];

    $todayDate = date('d-m-Y');

    $subject = $\_SESSION['subject'];

    $course = $\_SESSION['course'];

    $getStudents = mysqli\_query($con, "select student.id, student.name, student.roll\_no, student.course, student.subject, record.sid, record.status, record.record, record.day, record.month, record.year, record.date from student LEFT JOIN record ON student.id = record.sid LEFT JOIN faculty ON faculty.subject=student.subject where student.subject='$subject' and student.course='$course' ORDER BY student.id ASC");

    if(mysqli\_num\_rows($getStudents)>0){

        $students = mysqli\_fetch\_all($getStudents, MYSQLI\_ASSOC);

        $empty = mysqli\_free\_result($getStudents);

        echo json\_encode([$students, $date, $todayDate]);

    }

    else{

        echo json\_encode($response['success']=0);

    }

}

// ADD ATTENDANCE RECORD

if($json['call']==18){

    $sid = $json['sid'];

    $record = $json['record'];

    $day = date('d');

    $month = date('m');

    $year = date('Y');

    $date = date('d-m-Y');

    $tid = $\_SESSION['teacher'];

    $changeStatus = mysqli\_query($con,"update record set status=0 where sid=$sid");

    if($changeStatus){

        $query = mysqli\_query($con, "insert into record (sid, tid, status, record, date, day, month, year) values('$sid', '$tid', 1 , '$record', '$date', '$day', '$month', '$year')");

        if($query){

            echo json\_encode($response['success']=1);

        }

        else{

            echo json\_encode($response['success']=0);

        }

    }

}

// GET ATTENDANCE RECORD IN TEACHER DASHBOARD

if($json['call']==19){

    $tid = $\_SESSION['teacher'];

    $query = mysqli\_query($con, "select student.id, student.name, student.roll\_no, student.course, student.subject, record.sid, record.status, record.date, record.record from student LEFT JOIN record ON student.id = record.sid LEFT JOIN faculty ON faculty.id=record.tid where record.tid='$tid' ORDER BY record.id DESC");

    if(mysqli\_num\_rows($query)>0){

        $records = mysqli\_fetch\_all($query, MYSQLI\_ASSOC);

        $empty = mysqli\_free\_result($query);

        echo json\_encode($records);

    }

    else{

        echo json\_encode(0);

    }

}

?>

**Excel sheet for admin (backened)**

<?php

session\_start();

include('connect.php');

if(isset($\_POST['getFile'])){

    $date = $\_POST['date'];

    $output = '';

    $sr = 1;

    $record = mysqli\_query($con, "select student.name, student.course, student.subject, student.roll\_no, record.date, record.record from student LEFT JOIN record ON student.id=record.sid where record.date='$date'");

        if(mysqli\_num\_rows($record)>0){

            $output.=   '<table class="table" bordered="1">

                            <tr>

                                <th>Sr. No.</th>

                                <th>Name</th>

                                <th>Course</th>

                                <th>Subject</th>

                                <th>Roll no</th>

                                <th>Date</th>

                                <th>Status</th>

                            </tr>';

            while($row = mysqli\_fetch\_array($record)){

                if($row['record']==1){

                    $status = 'P';

                }

                else{

                    $status = 'A';

                }

                $output.=

                        '<tr>

                            <td>'.$sr.'</td>

                            <td>'.$row['name'].'</td>

                            <td>'.$row['course'].'</td>

                            <td>'.$row['subject'].'</td>

                            <td>'.$row['roll\_no'].'</td>

                            <td>'.$row['date'].'</td>

                            <td>'.$status.'</td>

                        </tr>';

                        $sr++;

            }

            $output.= '</table>';

            header("Content-Type: application/xls");

            header("Content-Disposition: attachment; filename=$date.xls");

            echo $output;

        }

}

?>

**Excel sheet for teacher (backened)**

<?php

session\_start();

include('connect.php');

if(isset($\_POST['getFile'])){

    $date = $\_POST['date'];

    $tid = $\_SESSION['teacher'];

    $output = '';

    $sr = 1;

    $record = mysqli\_query($con, "select student.name, student.course, student.subject, student.roll\_no, record.date, record.record from student LEFT JOIN record ON student.id=record.sid LEFT JOIN faculty ON faculty.t\_id=record.tid where record.date='$date' and record.tid='$tid'");

        if(mysqli\_num\_rows($record)>0){

            $output.=   '<table class="table" bordered="1">

                            <tr>

                                <th>Sr. No.</th>

                                <th>Name</th>

                                <th>Course</th>

                                <th>Subject</th>

                                <th>Roll no</th>

                                <th>Date</th>

                                <th>Status</th>

                            </tr>';

            while($row = mysqli\_fetch\_array($record)){

                if($row['record']==1){

                    $status = 'P';

                }

                else{

                    $status = 'A';

                }

                $output.=

                        '<tr>

                            <td>'.$sr.'</td>

                            <td>'.$row['name'].'</td>

                            <td>'.$row['course'].'</td>

                            <td>'.$row['subject'].'</td>

                            <td>'.$row['roll\_no'].'</td>

                            <td>'.$row['date'].'</td>

                            <td>'.$status.'</td>

                        </tr>';

                        $sr++;

            }

            $output.= '</table>';

            header("Content-Type: application/xls");

            header("Content-Disposition: attachment; filename=$date.xls");

            echo $output;

        }

}

?>

**Excel sheet for student (backened)**

<?php

session\_start();

include('connect.php');

if(isset($\_POST['getFile'])){

    $name = $\_SESSION['studentname'];

    $sid = $\_SESSION['student'];

    $output = '';

    $sr = 1;

    $record = mysqli\_query($con, "select student.name, student.course, student.subject, student.roll\_no, record.date, record.record from student LEFT JOIN record ON student.id=record.sid where record.sid='$sid'");

        if(mysqli\_num\_rows($record)>0){

            $output.=   '<table class="table" bordered="1">

                            <tr>

                                <th>Sr. No.</th>

                                <th>Name</th>

                                <th>Course</th>

                                <th>Subject</th>

                                <th>Roll no</th>

                                <th>Date</th>

                                <th>Status</th>

                            </tr>';

            while($row = mysqli\_fetch\_array($record)){

                if($row['record']==1){

                    $status = 'P';

                }

                else{

                    $status = 'A';

                }

                $output.=

                        '<tr>

                            <td>'.$sr.'</td>

                            <td>'.$row['name'].'</td>

                            <td>'.$row['course'].'</td>

                            <td>'.$row['subject'].'</td>

                            <td>'.$row['roll\_no'].'</td>

                            <td>'.$row['date'].'</td>

                            <td>'.$status.'</td>

                        </tr>';

                        $sr++;

            }

            $output.= '</table>';

            header("Content-Type: application/xls");

            header("Content-Disposition: attachment; filename=$name.xls");

            echo $output;

        }

}

?>

**Logout (backened)**

<?php

    session\_start();

    session\_destroy();

    header('location:../');

?>

**FUTURE ENHANCEMENTS**

1. SMS/Email feature
2. Search bar
3. Face detection
4. Finger scanner
5. ID Card generation
6. Monthly record generation

**CONCLUSION**

The final conclusion we make here is that our new attendance management system is much better and easy to use than traditional system. Almost all problems that we have discussed in problem definition section are resolved by the help of this application. So, the launch of this application would help schools, institutes, colleges and universities to manage daily attendance activities.

**REFERENCES**

**Programming languages**

* <https://www.w3schools.com>
* <https://www.javapoint.com>
* <https://www.youtube.com>
* <https://www.wikipedia.com>

**Software**

* [www.apachefriends.org](http://www.apachefriends.org)
* <https://code.visualstudio.com/>