

## Documentation

This file uses HTML, Javascript, JQuery, AJAX and Google MDL. It shows the Web UI for the attendance system. The UI shows several tabs, each which display a certain functionality of the application and making use of different API's. There are totally 8 tabs:

1. Overview
2. Add Class
3. Delete Class
4. Add Student
5. Class Attendance
6. All Students
7. Student Enrolled
8. Clear Class Enrolled

**Overview** - Just displays a welcome message.

**Add Class** - Displays a form which asks the user to enter three fields, namely:  
Class ID, Class Name and the Bluetooth ID. When this is submitted, the postData function is used. The function sends a POST request to the **createclass** API running on port number 3002. If it is successful it creates an alert box saying "Class created".

**Delete Class** - It displays a form which you have to enter the Class ID. When it is submitted a function is called which sends a Delete request to the **deleteclass** API on port 3002.

**Add Student** - Displays a form which takes Student ID, Class numbers and Student name as input. When submit is pressed and ajax function is called, a POST request is sent to add student API. As the body of the request the user input is sent as a JSON request.

**Class Attendance** - Displays a dropdown menu of all the classes which have been added (as discussed earlier). When a class is selected, a Post request is sent to the **classattendance** API running on port number 3002. The JSON response is then parsed, and using MDL lists, the students are displayed.

**All Students** - Requires the user to click on a button. When it is clicked, a GET request is sent to the **allstudent** API running on port number 3000. The JSON response is then parsed and using MDL lists, a list of all the students registered in the college are present.

**Student Enrolled** - Displays a form which expects the user to enter the student ID. When the submit button is pressed, the enrList() function is called. This function sends a GET request to the **studentenrolled** API running on port 3000. The JSON response is then parsed, and using MDL lists, the list of all classes in which the particular student is enrolled in is displayed.

**Clear Class Attendance** - Shows a drop down menu showing of all the class that currently exists. When the user selects a class, a DELETE request is sent to the **clearclassattendance** API running on port 3002.

In the index.html file, wherever the url/localurl variable exists, it must be filled in with the respective URL's at which the backend server is running.