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# ATTENDANCE MS

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TECHNO INDIA COLLEGE OF TECHNOLOGY



A Project Report for Minor project

Submitted by

*Sourav Das  
Ejaz Ahmed  
Rima Biswas  
Priyanka Roy*

NOVEMBER 24, 2017  
MINOR PROJECT  
BCA 2015-2018



## BONAFIDE CERTIFICATE

Certified that this project work was carried out under my supervision

***“Development of a feature-rich, practical Online Attendance Management System”*** is the bonfire work of

**Name of the student:** Sourav Das

**Signature:**

### SIGNATURE

Name : Bapi Tudu

### PROJECT MENTOR

Ardent Original Seal



## BONAFIDE CERTIFICATE

Certified that this project work was carried out under my supervision

***“Development of a feature-rich, practical Online Attendance Management System”*** is the bonfire work of

**Name of the student: Ejaz Ahmed**

**Signature:**

### SIGNATURE

Name : Bapi Tudu

### PROJECT MENTOR

**Ardent Original Seal**



## BONAFIDE CERTIFICATE

Certified that this project work was carried out under my supervision

***“Development of a feature-rich, practical Online Attendance Management System”*** is the bonfire work of

**Name of the student:** Rima Biswas

**Signature:**

### SIGNATURE

Name : Bapi Tudu

### PROJECT MENTOR

Ardent Original Seal



## BONAFIDE CERTIFICATE

Certified that this project work was carried out under my supervision

***“Development of a feature-rich, practical Online Attendance Management System”*** is the bonfire work of

**Name of the student:** Priyanka Roy

**Signature:**

### SIGNATURE

Name : Bapi Tudu

### PROJECT MENTOR

Ardent Original Seal

# **ACKNOWLEDGEMENT**

The satisfaction that accompanies with the successful completion of any task would be incomplete without the mention of people whose ceaseless cooperation made it possible, whose constant guidance and encouragements crown all efforts with success.

We are grateful to our project guide Prof. Tathagatha Barik and Bapi Tudu Sir for the guidance, inspiration, and constructive suggestions that help us in the preparation of this project.

Under his guidance, we have completed the challenging task in a very short time. He was involved throughout the entire project work, from the very beginning.

We are also grateful to all other teachers who have guided us in the development and completion of this project.

Finally, we would like to thank our family members for giving us inspiration and support for this “ONLINE ATTENDANCE MANAGEMENT SYSTEM” project work.

Date: - 24th Nov 2017

# **GOALS AND OVERVIEW**

The ONLINE ATTENDANCE SYSTEM is developed to reap the benefits of internet along-with a regular task such as taking attendance as well as calculation of various statistic. It is designed for the benefit of both students and faculty in a campus.

We offer an Online Attendance System to automate the entire attendance-related work. This system is aimed at helping both the teachers and the students. The faculty members can make a personal account on this website after which he/she can customize their classes and take attendance as well each day. The students, on the other hand, can check their status directly from the website along-with a graphical display automatically generated.

# INTRODUCTION

Online Attendance Management system is a software developed for daily student attendance in schools, colleges and institutes.

If facilitates to access the attendance information is sorted by the operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student.

# **MINOR PROJECT(TICT) ATTENDANCE MS**

November 24, 2017

- **Project Background and Description**

Project Name: Attendance MS

Description:

It is an Online Automated Attendance Management System for schools and colleges.

Its aim is to automate the huge redundancy in attendance counting.

Team Members:

1. Sourav Das – 31401215050
  - a. Server
  - b. Back End
  - c. Database
2. Ejaz Ahmed – 31401215017
  - a. Front End
  - b. UI Design
3. Rima Biswas – 31401215037
  - i. Documentation
4. Priyanka Roy – 31401215032
  - i. Presentation

## **REQUIREMENTS**

- **Software Requirement Specification**

- **Client Requirement**

- a) The system in use should automatically update each data pertaining to a student's attendance or a faculty member.
- b) It should require minimum technical attention to operate properly as attendance would be taken on a daily basis.
- c) Calculations can be done automatically.
- d) It should be able to hold data for a minimum of 10000 students and faculty member at a time.
- e) The database should be made such that minimum space is required without the need of keeping any back-up.

- f) All Faculty should be able to see all subjects and take attendance of any class.
- g) The Faculty who has taken a class only that is able to make changes to that class or the Administrator.
- h) The project should have the following views:
  - i) Faculty wise - Subject wise class count.
  - ii) Student wise – Subject wise Attendance Percent and Count
  - iii) All Classes Taken by the Faculty
  - iv) Student wise – Class date wise Attendance Markings

- **Project Requirement**

- The project to be developed requires continuous internet connectivity with a minimum speed.
- A Standard Desktop or Laptop.
- A local Apache with MySQL server on the developing system.
- A normal text editor and a web browser.

- **Technical Requirements**

- User
  - 1. The system can operate using the internet on any device- smartphone screen or desktop screen.
  - 2. Internet used should be of 2G 3G 4G speed for the system to operate fully functionally.
- System
  - 1. The response time and through-put periods shall take a maximum of 30 seconds with any number of users simultaneously.

- **Functional Requirement**

- **Required Features**
  - a) Automatic upload of data using internet.
  - b) Member log-in facility.
  - c) Maximum security to prevent discrepancy in data.
  - d) All data should be stored online without a need for back up.

- e) Automatic calculations of statistics.
- f) Auto-refresh facility after completion of each semester.
- Optional Features
  - a) Student access to view individual data.
  - b) Graphical display of student data.
- Security Features
  - a) The system will provide each faculty members with a ID and a password to log in .
  - b) The data of one member will not be displayed with the data of another member.
  - c) It shall restrict access to functions to authorized group and class of users.
  - d) It shall provide a mechanism to distinguish between the inquiry and update capabilities of each of the user class.
  - e) The system must have at least 2 user group:
    - i) Administrator
    - ii) Normal User

### **3. Project Overview**

- Purpose

Attendance MS is developed to reap the benefits of internet along-with a regular task such as taking attendance as well as calculation of various statistic. It is designed for the benefit of both students and faculty in a campus.

We offer an Online Attendance System to automate the entire attendance-related work. This system is aimed at helping both the teachers and the students. The faculty members can make a personal account on this website after which he/she can customize their classes and take attendance as well each day. The students, on the other hand, can check their status directly from the website along-with a graphical display automatically generated.

We believe that this system would bring uniformity and reduce a lot of manual effort. There would be no need of maintaining heaps of physical data. Faculty would find it comforting to access their daily chores on-the-go as well as view the entire session at the end each of term. Students would be more aware of their attendance status in each class and therefore would be more cautious in maintaining the requirements.

- **Scope**
  1. This system has potential of automating office work and reducing work load thereof.
  2. It will take up minimum space for maintaining database.
  3. It will also provide a database back up of 12 years.
  4. It provides absolute security with the use of a log-in id and password for faculty.
  5. It will help students to view their attendance status and maintain transparency.
- **Technical Constraints**
  - **User**
    1. The user should have either a smartphone or a desktop with continuous internet connectivity.
    2. They should also have a minimum knowledge of handling internet related activity.
    3. A web browser with JavaScript, Css3 and Html5.
  - **System**
    1. A web server with Php and MySQL.
    2. 5,000 MB bandwidths.
    3. 500 MB Storage.
    4. Smtp Server.
    5. Ftp Support.
  - **Third party software constraints**
    1. Php Laravel web framework
    2. Bootstrap
    3. Materialize CSS
    4. jQuery

# SOFTWARE PROJECT MANAGEMENT PLAN

## 1. Deliverables.

Phase	Deliverables	Due Date
Initial Structuring	<ul style="list-style-type: none"><li>• SDLC Finalization</li><li>• Constrain List</li><li>• Requirement List</li></ul>	2 Sep 2017
Initial Structuring (phase 2)	<ul style="list-style-type: none"><li>• Database Design</li><li>• Class Design</li><li>• Basic UI Layout</li></ul>	15 Sep 2017
Phase 1	<ul style="list-style-type: none"><li>• Environment Setup</li><li>• Tools Finalizations</li><li>• Team Organization</li></ul>	20 Sep 2017
Phase 2	<ul style="list-style-type: none"><li>• Feature by Feature Deployment</li><li>• Design Feature</li><li>• Implement Feature</li><li>• Test Feature</li><li>• Client Feedback</li></ul>	20 Oct 2017
Phase 3	<ul style="list-style-type: none"><li>• Finalizing Edits</li><li>• Re-Design Feedback</li><li>• Implement and Test Redesign</li></ul>	20 Nov 2017
Phase 4	<ul style="list-style-type: none"><li>• Uploading to Server</li><li>• Configuring Server</li><li>• Mandating Security</li><li>• Client Feedback</li></ul>	25 Nov 2017

## 2. Implementation Plan

### 1. Team Organization

- Sourav Das
- Ejaz Ahmed

### 2. Environment Finalization

- Server: Apache
- Server-Side Scripting: Php
- Database: MySQL
- Web Framework: Laravel
- Client-Side Scripting: JavaScript
- Supporting Software:
  - (1)jQuery
  - (2)Bootstrap
  - (3)Materialize CSS
  - (4)CSV plugin

### **3. SDLC Model Finalization**

The Project will be developed using the Iterative Model

All Iteration will design, Implement and Test some feature at a time.

### **4. Incremental Stage/Phase Plan**

#### **(1) Stage – 1 (Initial Structure)**

- (a) Basic Attendance taking and viewing functionality.
- (b) 4-page website.

#### **(2) Stage – 2 (Iteration 2)**

- (a) User Login and Admin Settings
- (b) 16-page website

#### **(3) Stage – 3 (Iteration 3)**

- (a) Attendance View for Student
- (b) 20 – page website.

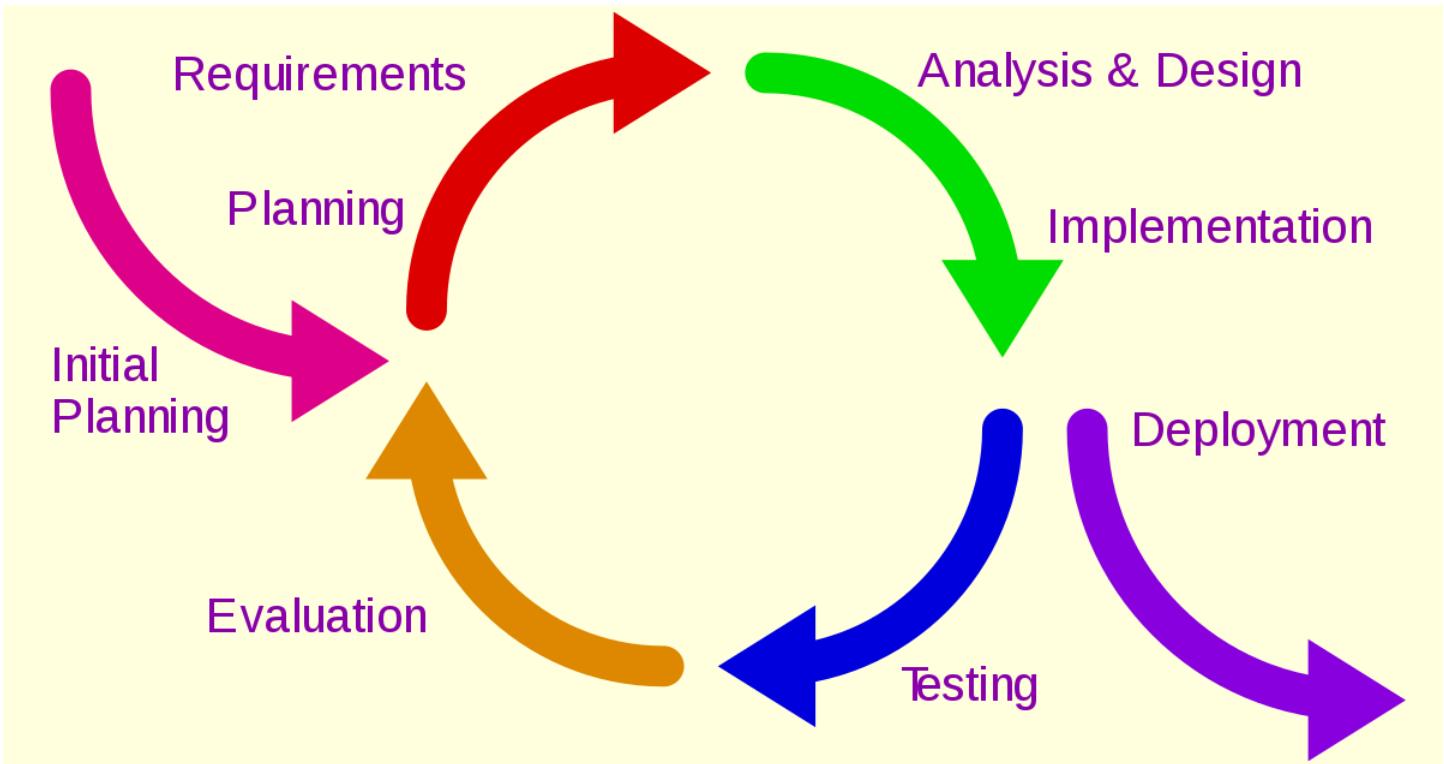
#### **(4) Stage – 4 (Iteration 4)**

- (a) Security and Long-Term Data Saving feature.
- (b) 32-page website.

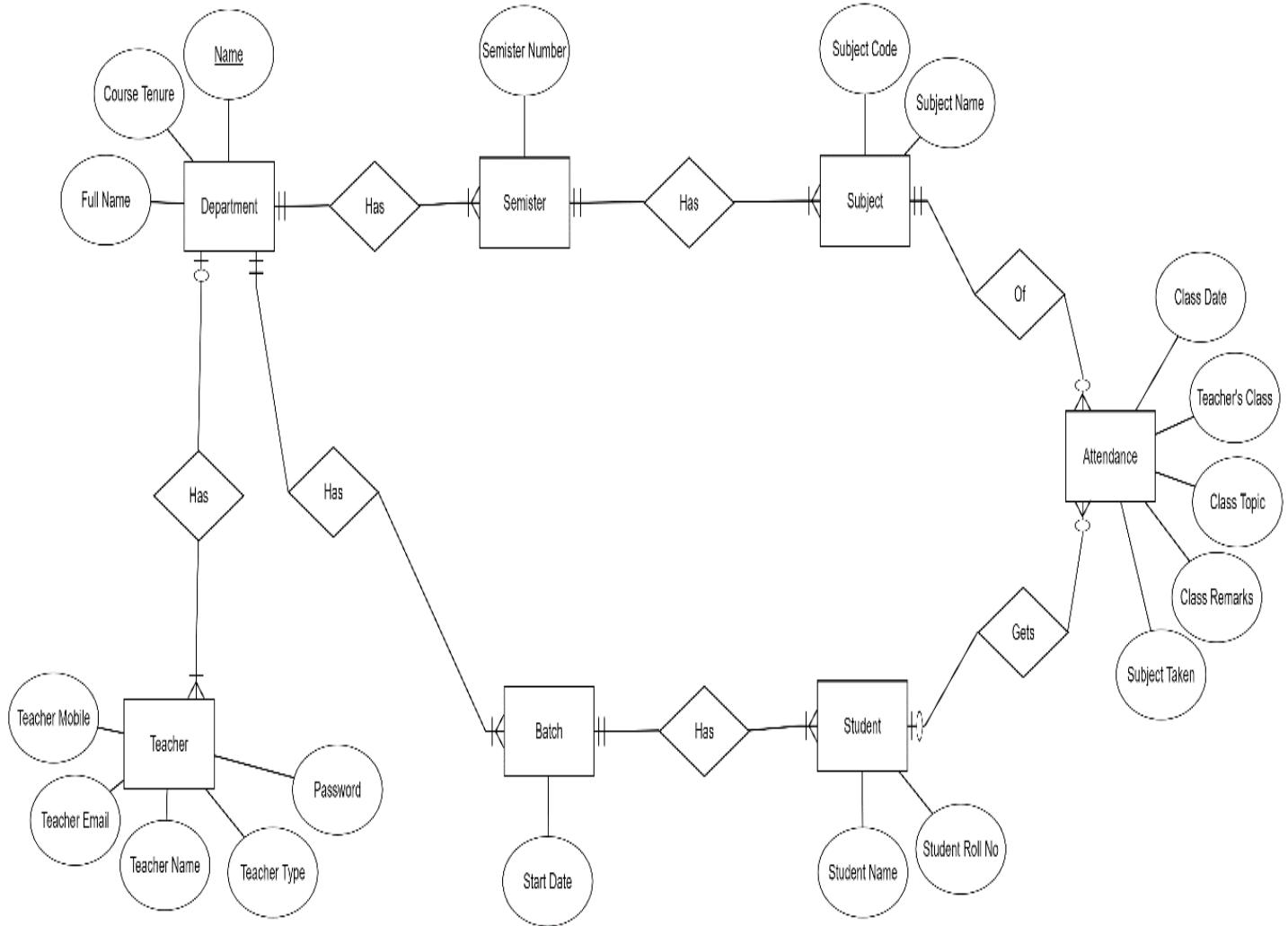
## **3. Project Process**

### **1. Designing**

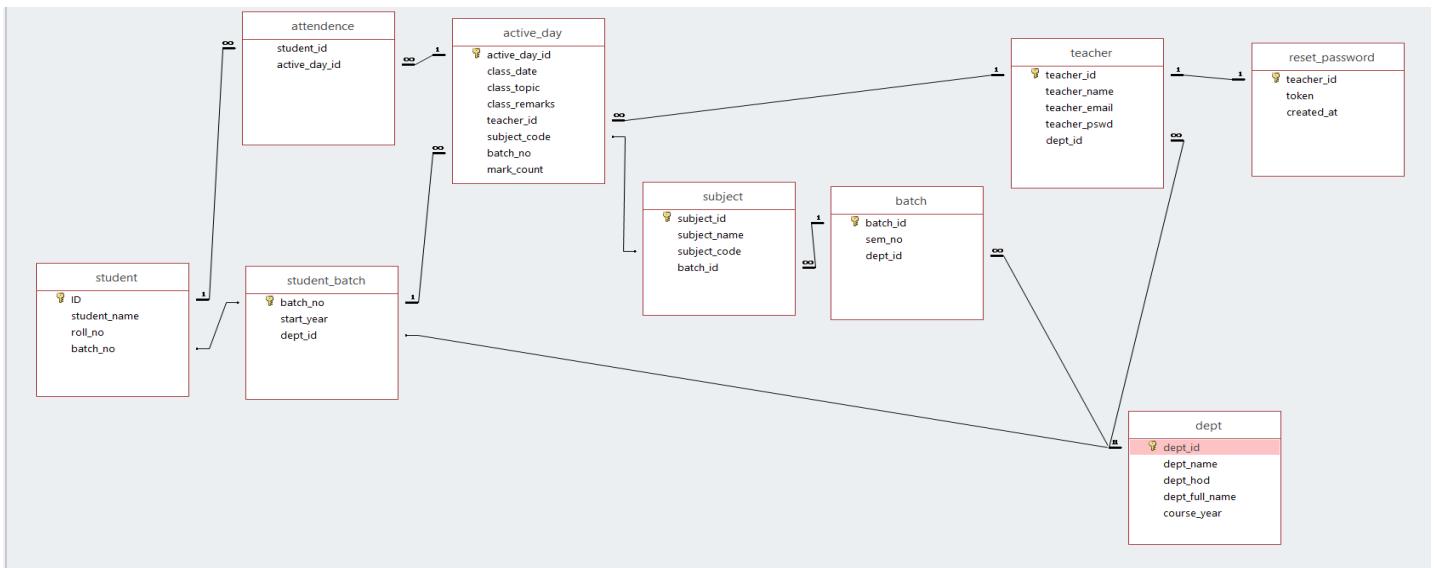
- Database Design
  - a. Assumed Constraints
    - i. Subjects change after each semester.
    - ii. Only one batch for a particular department-year is present
    - iii. A semester has a length of 156-185 days.



- Entity Relationship Diagram:



- Table Design



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ServerSide.java AndroidManifest.xml database-actual.sql

18
19 CREATE TABLE IF NOT EXISTS dept (
20     id INT(11) UNSIGNED NOT NULL AUTO_INCREMENT,
21     name varchar(15) NOT NULL UNIQUE,
22     full_name varchar(255) NOT NULL,
23     course_years INT(11) UNSIGNED NOT NULL,
24     PRIMARY KEY (id)
25 );
26
27 DELIMITER $$ 
28 CREATE TRIGGER dept_before_insert BEFORE INSERT ON dept
29 FOR EACH ROW
30 BEGIN
31     IF NEW.course_years <= 0 THEN
32         SIGNAL sqlstate '45000';
33         SET MESSAGE_TEXT = 'check constraint on dept.course_years failed. dept.course_years should be greater than 0';
34     END IF;
35 END $$ 
36 DELIMITER ;
37
38 DELIMITER $$ 
39 CREATE TRIGGER dept_before_update BEFORE UPDATE ON dept
40 FOR EACH ROW
41 BEGIN
42     IF NEW.course_years <= 0 THEN
43         SIGNAL sqlstate '45000';
44         SET MESSAGE_TEXT = 'check constraint on dept.course_years failed. dept.course_years should be greater than 0';
45     END IF;
46 END $$ 
47 DELIMITER ;
48
49 -- BATCH TABLE ---
50

```

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ServerSide.java AndroidManifest.xml database-actual.sql

51
52 CREATE TABLE IF NOT EXISTS batch (
53     batch_id int(11) UNSIGNED NOT NULL AUTO_INCREMENT,
54     sem_no int(11) UNSIGNED NOT NULL,
55     dept_id int(11) UNSIGNED NOT NULL REFERENCES dept(id),
56
57     PRIMARY KEY (batch_id),
58     CONSTRAINT FK_batch_dept_id FOREIGN KEY (dept_id) REFERENCES dept(id)
59     ON DELETE RESTRICT ON UPDATE RESTRICT,
60     CONSTRAINT UC_batch_dept_id_sem_no UNIQUE (sem_no,dept_id)
61 );
62
63 -- STUDENT_BATCH TABLE ---
64
65
66 CREATE TABLE IF NOT EXISTS student_batch (
67     batch_no int(11) UNSIGNED NOT NULL AUTO_INCREMENT,
68     start_date date NOT NULL,
69     dept_id int(11) UNSIGNED NOT NULL,
70
71     PRIMARY KEY (batch_no),
72     CONSTRAINT FK_student_batch_dept_id FOREIGN KEY (dept_id) REFERENCES dept(id)
73     ON DELETE RESTRICT ON UPDATE RESTRICT
74 );
75
76 -- STUDENT TABLE ---

```

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ServerSide.java database-actual.sql
66 CREATE TABLE IF NOT EXISTS student_batch (
67     batch_no int(11) UNSIGNED NOT NULL AUTO_INCREMENT,
68     start_date date NOT NULL,
69     dept_id int(11) UNSIGNED NOT NULL,
70
71     PRIMARY KEY (batch_no),
72     CONSTRAINT FK_student_batch_dept_id FOREIGN KEY (dept_id) REFERENCES dept(id)
73     ON DELETE RESTRICT ON UPDATE RESTRICT
74 );
75
76 -- STUDENT TABLE ---
77
78
79 CREATE TABLE IF NOT EXISTS student (
80     id int(11) UNSIGNED NOT NULL AUTO_INCREMENT,
81     name varchar(255) NOT NULL,
82     roll_no int(11) UNSIGNED NOT NULL,
83     batch_no int(11) UNSIGNED NOT NULL,
84
85     PRIMARY KEY (id),
86     CONSTRAINT UC_student UNIQUE (roll_no,batch_no),
87     CONSTRAINT FK_student_batch_no FOREIGN KEY(batch_no) REFERENCES student_batch(batch_no)
88     ON DELETE RESTRICT ON UPDATE RESTRICT
89 );
90
91 -- SUBJECT TABLE ---

```

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ServerSide.java database-actual.sql
93
94 CREATE TABLE IF NOT EXISTS subject (
95     code varchar(20) NOT NULL UNIQUE,
96     name varchar(100) NOT NULL,
97     batch_id int(11) UNSIGNED NOT NULL,
98
99     PRIMARY KEY (code),
100    CONSTRAINT FK_subject_batch_id FOREIGN KEY(batch_id) REFERENCES batch(batch_id)
101    ON DELETE RESTRICT ON UPDATE RESTRICT
102 );
103
104 -- USERS TABLE ---
105
106
107 CREATE TABLE IF NOT EXISTS users (
108     id int(11) UNSIGNED NOT NULL AUTO_INCREMENT,
109     name varchar(255) NOT NULL,
110     email varchar(255) NOT NULL UNIQUE,
111     password varchar(255) NOT NULL,
112     phn_no varchar(10) DEFAULT NULL UNIQUE,
113     user_type varchar(15) NOT NULL,
114     remember_token varchar(255) DEFAULT NULL,
115     created_at timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
116     updated_at timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
117     dept_id int(11) UNSIGNED DEFAULT NULL,
118
119     PRIMARY KEY (id),
120     CONSTRAINT FK_user_dept_id FOREIGN KEY (dept_id) REFERENCES dept(id)
121     ON DELETE RESTRICT ON UPDATE RESTRICT
122 );

```

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ServerSide.java AndroidManifest.xml database-actual.sql

123
124 -- ACTIVE_DAY TABLE --
125
126 CREATE TABLE IF NOT EXISTS active_day (
127     active_day_id int(11) UNSIGNED NOT NULL AUTO_INCREMENT,
128     class_date date NOT NULL,
129     class_topic varchar(127) NOT NULL,
130     class_remarks varchar(255) NOT NULL,
131     teacher_id int(11) UNSIGNED NOT NULL,
132     subject_code varchar(15) NOT NULL,
133     batch_no int(11) UNSIGNED NOT NULL,
134     mark_count int(11) UNSIGNED NOT NULL,
135
136     PRIMARY KEY (active_day_id),
137     CONSTRAINT FK_active_day_teacher_id FOREIGN KEY (teacher_id) REFERENCES users(id)
138     ON DELETE RESTRICT ON UPDATE RESTRICT,
139     CONSTRAINT FK_active_day_subject_code FOREIGN KEY (subject_code) REFERENCES subject(
139         code)
140     ON DELETE RESTRICT ON UPDATE RESTRICT,
141     CONSTRAINT FK_active_day_batch_no FOREIGN KEY (batch_no) REFERENCES student_batch(
141         batch_no)
142     ON DELETE RESTRICT ON UPDATE RESTRICT
143 );
144

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ServerSide.java AndroidManifest.xml database-actual.sql

146 -- attendance TABLE --
147
148 CREATE TABLE IF NOT EXISTS attendance (
149     student_id int(11) UNSIGNED NOT NULL,
150     active_day_id int(11) UNSIGNED NOT NULL,
151
152     CONSTRAINT UC_student_attendance UNIQUE (student_id,active_day_id),
153     CONSTRAINT FK_attendance_active_day_id FOREIGN KEY (active_day_id) REFERENCES active_day(active_day_id)
154     ON DELETE RESTRICT ON UPDATE RESTRICT,
155     CONSTRAINT FK_attendance_student_id FOREIGN KEY (student_id) REFERENCES student(id)
156     ON DELETE RESTRICT ON UPDATE RESTRICT
157 );
158
159
160
161
162 ..... -- LONG TERM --
163
164
165
166 CREATE TABLE IF NOT EXISTS lt_student_attendance (
167     student_id int(11) UNSIGNED NOT NULL,
168     sem_no int(11) NOT NULL,
169     attendance int(11) DEFAULT 0,
170     total int(11) DEFAULT 0,
171
172     PRIMARY KEY(student_id,sem_no),
173
174
175     CONSTRAINT FK_lt_student_attendance_student_id
176     FOREIGN KEY (student_id) REFERENCES student(id)
177     ON DELETE RESTRICT ON UPDATE RESTRICT
178

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ServerSide.java AndroidManifest.xml database-actual.sql [3]
179 );
180
181
182 CREATE TABLE IF NOT EXISTS reset_password (
183     user_id int(11) UNSIGNED NOT NULL UNIQUE,
184     token varchar(255) NOT NULL UNIQUE,
185     created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
186
187     PRIMARY KEY(token),
188
189     CONSTRAINT FK_lt_reset_password_user_id
190     FOREIGN KEY (user_id) REFERENCES users(id)
191     ON DELETE RESTRICT ON UPDATE RESTRICT
192
193 );
194
195 CREATE TABLE IF NOT EXISTS misc (
196     config_id INT UNSIGNED NOT NULL AUTO_INCREMENT,
197     sem_starting_day INT UNSIGNED NOT NULL,
198     sem_starting_month INT UNSIGNED NOT NULL,
199     sem_length FLOAT UNSIGNED NOT NULL,
200
201     PRIMARY KEY(config_id)
202 );
203 INSERT INTO misc(config_id,sem_starting_day,sem_starting_month,sem_length) VALUES(1,1,7,182.5);
204

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ServerSide.java AndroidManifest.xml database-actual.sql [3]
227 CREATE VIEW user_view AS
228     SELECT
229         users.id AS user_id,
230         users.password AS password,
231         users.remember_token AS remember_token,
232         users.name AS user_name,
233         dept.id AS dept_id,
234         dept.name AS dept_name,
235         users.email AS email,
236         users.phn_no AS phn_no,
237         users.user_type AS user_type
238     FROM
239         users
240     LEFT JOIN
241         dept ON users.dept_id = dept.id;
242
243
244
245
246 CREATE VIEW student_attendence AS
247     SELECT
248         student.id AS id,
249         student.name AS NAME,
250         student.roll_no AS roll_no,
251         student.batch_no AS batch_no,
252         attendance.student_id AS student_id,
253         attendance.active_day_id AS active_day_id
254     FROM
255         student
256     JOIN
257         attendance ON student.id = attendance.student_id;
258

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```
262
263 CREATE VIEW sujet_attendance_view_1 AS
264     SELECT SUM(active_day.mark_count) AS attn,
265         student_attendance.name AS name,
266         student_attendance.roll_no AS roll_no,
267         student_attendance.student_id AS student_id,
268         student_attendance.batch_no AS batch_no,
269         active_day.subject_code AS subject_code
270     FROM
271         student_attendance
272     JOIN
273         active_day Using(active_day_id)
274     GROUP BY
275         student_attendance.id,
276         active_day.subject_code;
277
278
279
280 CREATE VIEW batch_dept_view_2 AS
281     SELECT
282         batch.batch_id AS batch_id,
283         batch.sem_no AS sem_no,
284         dept.name AS dept_name,
285         dept.id AS dept_id
286     FROM
287         batch
288     JOIN
289         dept ON dept.id = batch.dept_id
290     ORDER BY
291         dept.name,
292         batch.sem_no;
293
294
```

```
298 CREATE VIEW sub_dept_view_1 AS
299     SELECT
300         subject.code AS subject_code,
301         subject.name AS subject_name,
302         batch_dept_view_2.dept_id AS dept_id,
303         batch_dept_view_2.dept_name AS dept_name,
304         batch_dept_view_2.sem_no AS sem_no,
305         batch_dept_view_2.batch_id AS batch_id
306     FROM
307         subject
308     JOIN
309         batch_dept_view_2 ON batch_dept_view_2.batch_id = subject.batch_id;
310
311
312 CREATE VIEW dept_batch_view_3 AS
313     SELECT
314         student_batch.batch_no AS batch_no,
315         student_batch.start_date AS start_date,
316         student_batch.dept_id AS dept_id,
317         dept.name AS dept_name,
318         FLOOR((TO_DAYS(CURDATE()) - TO_DAYS(student_batch.start_date)) / (SELECT sem_length FROM misc WHERE config_id = 1)) + 1 AS sem_no,
319         dept.course_years AS course_years,
320         YEAR(CURDATE()) - YEAR(student_batch.start_date) + 1 AS current_year
321     FROM
322         student_batch
323     JOIN
324         dept ON dept.id = student_batch.dept_id;
325
```

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ServerSide.java AndroidManifest.xml database-actual.sql

327
328 CREATE VIEW student_view_1 AS
329 SELECT
330     student.name AS student_name,
331     student.roll_no AS student_roll,
332     student.id AS student_id,
333     student.batch_no AS batch_no,
334     dept_batch_view_3.dept_id AS dept_id,
335     dept_batch_view_3.dept_name AS student_dept,
336     (YEAR(CURDATE()) - YEAR(dept_batch_view_3.start_date)) + 1 AS year
337 FROM
338     student
339 JOIN
340     dept_batch_view_3 ON student.batch_no = dept_batch_view_3.batch_no
341 ORDER BY
342     student.roll_no;
343
344
345
346 CREATE VIEW dept_view AS
347 SELECT
348     dept.id AS id,
349     dept.name AS dept_name,
350     dept.full_name AS full_name,
351     dept.course_years AS course_years
352 FROM
353     dept;
354
355
```

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ServerSide.java AndroidManifest.xml database-actual.sql

359
360     SELECT
361         COUNT(0) AS head_count,
362         attendance.active_day_id AS active_day_id
363     FROM
364         active_day
365     JOIN
366         attendance ON attendance.active_day_id = active_day.active_day_id
367     GROUP BY
368         attendance.active_day_id;
369
370
371
372 CREATE VIEW batch_dept_view_1 AS
373 SELECT
374     student_batch.batch_no AS batch_no,
375     YEAR(student_batch.start_date) AS start_date,
376     dept.course_years AS course_years,
377     dept.name AS dept_name,
378     YEAR(CURDATE()) - YEAR(student_batch.start_date) + 1 AS current_year
379 FROM
380     student_batch
381 JOIN
382     dept ON student_batch.dept_id = dept.id;
383
384
```

Structured Query Language file length: 12,344 lines: 466 Ln: 151 Col: 1 Sel: 0 | 0 Windows (CR LF) UTF-8 INS

```

383
384
385 CREATE VIEW active_day_view_1 AS
386 SELECT
387     active_day.active_day_id AS active_day_id,
388     user_view.user_id AS teacher_id,
389     user_view.user_name AS teacher_name,
390     sub_dept_view_1.subject_name AS subject_name,
391     sub_dept_view_1.subject_code AS subject_code,
392     active_day.class_date AS class_date,
393     active_day.class_topic AS class_topic,
394     active_day.class_remarks AS class_remarks,
395     dept_batch_view_3.dept_name AS dept_name,
396     (YEAR(CURDATE()) - YEAR(dept_batch_view_3.start_date)) + 1 AS batch_current_year,
397     active_day.batch_no AS batch_no,
398     class_count.head_count AS head_count,
399     active_day.mark_count
400
401 FROM
402     active_day
403 JOIN
404     user_view ON user_view.user_id = active_day.teacher_id
405 JOIN
406     sub_dept_view_1 ON sub_dept_view_1.subject_code = active_day.subject_code
407 JOIN
408     dept_batch_view_3 ON dept_batch_view_3.batch_no = active_day.batch_no
409 LEFT JOIN
410     class_count ON class_count.active_day_id = active_day.active_day_id;
411

```

Structured Query Language file length: 12,344 lines: 466 Ln: 151 Col: 1 Sel: 0 | 0 Windows (CR LF) UTF-8 INS

```

412
413 CREATE VIEW subject_attn_student_view AS
414 SELECT
415     student.id AS student_id,
416     student.name AS student_name,
417     student.roll_no AS roll_no,
418     student.batch_no AS batch_no,
419     attendance.active_day_id AS active_day_id,
420     active_day_view_1.class_date AS class_date,
421     active_day_view_1.teacher_id AS teacher_id,
422     active_day_view_1.teacher_name AS teacher_name,
423     active_day_view_1.subject_name AS subject_name,
424     active_day_view_1.subject_code AS subject_code,
425     active_day_view_1.class_topic AS class_topic,
426     active_day_view_1.class_remarks AS class_remarks,
427     active_day_view_1.dept_name AS dept_name,
428     active_day_view_1.batch_current_year AS batch_current_year,
429     active_day_view_1.head_count AS head_count,
430     active_day_view_1.mark_count AS mark_count
431
432 FROM
433     student
434 JOIN
435     attendance
436     ON student.id = attendance.student_id
437 JOIN
438     active_day_view_1
439     ON active_day_view_1.active_day_id = attendance.active_day_id;
440
441
442
443
444
445
446 CREATE VIEW batch_dept_sem_view AS
447 SELECT
448     a.batch_no AS batch_no,
449     a.start_date AS start_date,
450     a.end_date AS end_date,
451     a.dept_id AS dept_id,
452     a.dept_name AS dept_name,
453     b.sem_no AS sem_no,
454     a.course_years AS course_years,
455     a.current_year AS current_year,
456     b.batch_id AS batch_id
457
458     FROM
459         dept_batch_view_3 a
460     LEFT JOIN
461         batch_dept_view_2 b ON(
462             (a.dept_id = b.dept_id) AND (a.sem_no = b.sem_no)
463             );
464
465
466

```

Structured Query Language file length: 12,344 lines: 466 Ln: 151 Col: 1 Sel: 0 | 0 Windows (CR LF) UTF-8 INS

# INTERFACE DESIGN

## User Interface Design

### FEATURE DESIGN (WEBSITE)

- Home Page

The screenshot shows the homepage of the "Online Attendance System". At the top, there is a navigation bar with "Attendance MS" on the left and "Sign In" on the right. Below the navigation bar is a large banner featuring the Techno India College of Technology logo (a red shield with a book and a sunburst) and the text "Techno India College Of Technology". Underneath the banner, it says "Online Attendance System" and has a "SIGN IN" button. The background of the page is a photograph of a modern multi-story building with trees in front.

**Your Attendance**

-- Department --

This section features a large image of a building with the text "Attendance Matters" overlaid. Below the image, it says "every student, every day".

**Speeds up Attendance**

We did most of the heavy lifting for you to provide a default settings that incorporate our custom components. Additionally, we refined the UI and added all data to provide a smoother experience for users.

**User Experience Focused**

By utilizing experized skill from our teacher and huge pool of example and test cases, we were able to create a framework that incorporates components and automation that provide more easy of use and centralized control. Additionally, a single underlying responsive system across all platforms allow for a more unified user experience.

**Easy to work with**

We have provided detailed documentation as well as live examples to help new users get started. We are also always open to feedback and can answer any questions a user may have about Attendance MS.

**Company Bio**

We are a team of college students working on this project like it's our full time job. Any amount would help support and continue development on this project and is greatly appreciated.

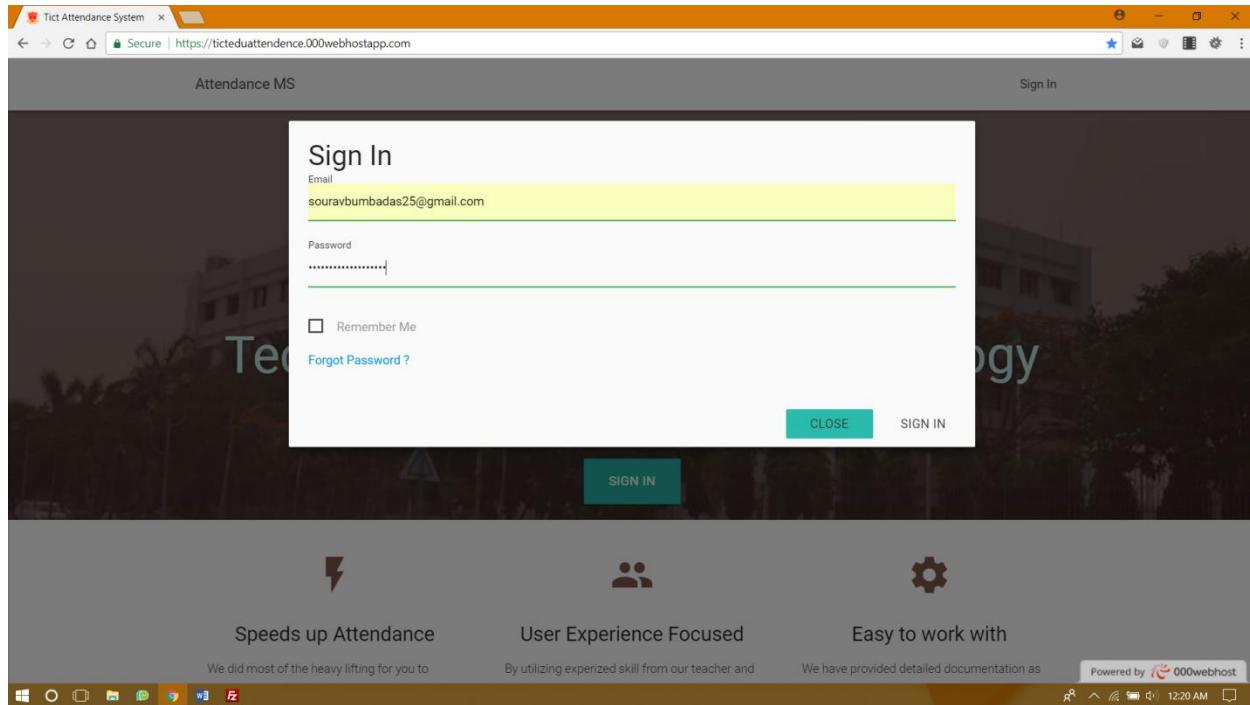
**Core**

- PHP
- HTML 5
- CSS 3
- Javascript ES6
- Laravel

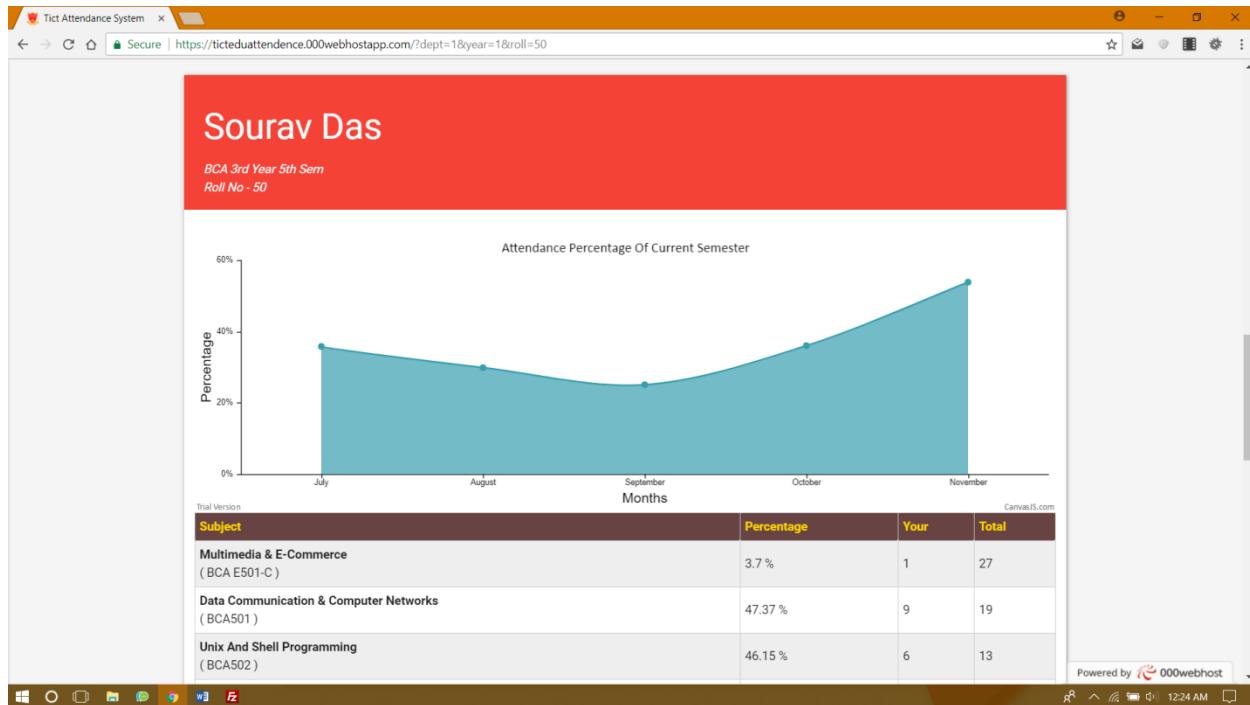
**Supporting**

- Ajax
- Bootstrap
- Apache
- Gmail
- JQuery

- **Sign In**



- **Attendance View for Student**



- Dashboard

The screenshot shows the 'Attendance MS' dashboard. On the left, a sidebar menu includes 'Dashboard', 'My Classes', 'Take Attendance', 'View Attendance', 'Current Semester', 'Previous Semester', 'Admin Settings', and 'Miscellaneous Settings'. The main area features four cards: 'Take Attendance' (red), 'View Attendance' (blue), 'My Classes' (orange), and 'Attendance Storage' (green). Below these is a section titled 'Classes Taken by You this Semester' with a table:

Subject Code	Subject Name	Number Of Classes
BBA301 - BCA	Management & Accounting	7
BBA501	Financial Management - II	7
BBA502	Marketing Management - II	8
BBA503	Human Resource Management - II	5
BBA504	Fundamentals Of Entrepreneurship	11

- Take Attendance

The screenshot shows the 'Take Attendance' page for the 'Unix And Shell Programming' class. The sidebar is identical to the dashboard. The main content area has a red header 'Unix And Shell Programming' and a table of student attendance:

Student Name	Roll No	Actions
Abhishek Kumar Soren	1	ABSENT
Agnibha Roychowdhury	2	ABSENT
Amalita Khanna	3	ABSENT
Amit Datta	4	ABSENT
Anamika Kumari	5	ABSENT
Anish Datta	6	ABSENT
Ankan Polley	7	ABSENT
Antara Sengupta	8	ABSENT
Anwesha Basu	9	ABSENT
Apama Mishra	10	ABSENT

At the bottom, it says 'Showing 1 to 10 of 60 entries'.

## • Current Semester Attendance Viewing

The screenshot shows a web-based attendance system titled "Attendance MS". The left sidebar includes links for "Dashboard", "My Classes", "Take Attendance", "View Attendance", "Current Semester" (which is selected), and "Previous Semester". The main content area displays a table of student attendance data:

Roll No	Name	Percentage	Attendance	Actions
1	Abhishek Kumar Soren	30.91 %	34	[Edit, Delete]
2	Agnibha Roychowdhury	33.64 %	37	[Edit, Delete]
3	Amalita Khanra	36.36 %	40	[Edit, Delete]
4	Amit Dutta	31.82 %	35	[Edit, Delete]
5	Anamika Kumari	40.91 %	45	[Edit, Delete]
6	Anish Datta	43.64 %	48	[Edit, Delete]
7	Ankan Polley	21.82 %	24	[Edit, Delete]
8	Antara Sengupta	28.18 %	31	[Edit, Delete]
9	Anwesha Basu	29.09 %	32	[Edit, Delete]
10	Aparna Mishra	33.64 %	37	[Edit, Delete]

Showing 1 to 10 of 60 entries

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The screenshot shows a detailed view of attendance for the "Unix And Shell Programming" class (BCA502). The page title is "BCA502 Unix And Shell Programming" and it was taken by "Sourav Das". The main content area displays a table of student attendance data:

Roll No	Name	12 Jul	19 Jul	21 Jul	22 Jul	03 Aug	06 Sep	22 Oct	13 Nov	Marked / Classes
1	Abhishek Kumar Soren	p <sup>1</sup>	p <sup>1</sup>		p <sup>1</sup>					3 - 13 / 3 - 8
2	Agnibha Roychowdhury				p <sup>1</sup>	p <sup>2</sup>		p <sup>3</sup>		6 - 13 / 3 - 8
3	Amalita Khanra	p <sup>1</sup>	p <sup>1</sup>	p <sup>1</sup>		p <sup>2</sup>		p <sup>3</sup>		8 - 13 / 5 - 8
4	Amit Dutta	p <sup>1</sup>								1 - 13 / 1 - 8
5	Anamika Kumari			p <sup>1</sup>			p <sup>3</sup>	p <sup>3</sup>	p <sup>1</sup>	8 - 13 / 4 - 8
6	Anish Datta	p <sup>1</sup>	p <sup>1</sup>			p <sup>2</sup>			p <sup>1</sup>	5 - 13 / 4 - 8
7	Ankan Polley	p <sup>1</sup>	p <sup>1</sup>		p <sup>1</sup>				p <sup>1</sup>	4 - 13 / 4 - 8
8	Antara Sengupta	p <sup>1</sup>						p <sup>3</sup>	p <sup>1</sup>	5 - 13 / 3 - 8
9	Anwesha Basu	p <sup>1</sup>							p <sup>1</sup>	2 - 13 / 2 - 8
10	Aparna Mishra				p <sup>2</sup>				p <sup>1</sup>	3 - 13 / 2 - 8

Showing 1 to 10 of 60 entries

Powered by 000webhost

- Previous Semester Attendance Viewing

The screenshot shows the 'Attendance MS' application interface. On the left sidebar, under 'View Attendance', 'Current Semester' is selected. The main content area displays a chart titled 'Total Attendance Of All Semester' for student 'Abhishek Kumar Soren' (BCA 2015 - 2018, Roll No - 1). The chart shows attendance percentages across four semesters: 1st (1.61%), 2nd (83.72%), 3rd (45.45%), and 4th (0%). A table below the chart provides detailed attendance data.

Semester	Percentage	Your Attendance	Total Attendance	Actions
1st	1.61 %	1	62	
2nd	83.72 %	108	129	
3rd	45.45 %	15	33	
4th	0 %	0	0	

- Admin Settings

The screenshot shows the 'Attendance MS' application interface. On the left sidebar, under 'Admin Settings', 'Students' is selected. The main content area displays a list of students. At the top right, there is a summary box showing '215 Students!' and a button to 'Add a Student'. Below this is a search bar and a table listing student details.

Roll No	Name	Department	Current Year	Actions
1	Abhishek Kumar Soren	BCA	3rd Year	
1	Binit Saha	BBA	3rd Year	
1	Subhankar Roy Chowdhury	MCA	2nd Year	

Tict Attendance System x

Secure | https://ticteduattendece.000webhostapp.com/home/dept#

## Attendance MS

Sourav Das

Dashboard

My Classes

Take Attendance

View Attendance

Admin Settings

- Departments
- Subjects
- Batches
- Students
- Faculties

Miscellaneous Settings

## Departments

home / dept / Departments

Search Department..

Add a Department

Department	Department Name	Course Years	Actions
BBA	Bachelor Of Business Administration	3	
BCA	Bachelor Of Computer Application	3	
MCA	Master Of Computer Application	3	

Powered by 000webhost

10 records per page

Search:

Tict Attendance System x

Secure | https://ticteduattendece.000webhostapp.com/home/subject

## Attendance MS

Sourav Das

Dashboard

My Classes

Take Attendance

View Attendance

Current Semester

Previous Semester

Admin Settings

Miscellaneous Settings

- BBA
- BCA

1ST SEMESTER

- BCA101 - Digital Electronics
- BCA102 - Business System And Application
- BCA103 - Introduction To Programming
- BCA104 - PC Software
- BCA193 - C Lab (C-Pascal)
- BCA194 - PC Software Lab
- BM101 - Mathematics

2ND SEMESTER

3RD SEMESTER

4TH SEMESTER

5TH SEMESTER

6TH SEMESTER

MCA

Powered by 000webhost

854 PM

Tict Attendance System x

Secure | https://ticteduattendance.000webhostapp.com/home/batch/setting/index

## Attendance MS

Sourav Das

Dashboard

My Classes

Take Attendance

View Attendance

Current Semester

Previous Semester

Admin Settings

Miscellaneous Settings

### Batches

home / batch / setting / index / Batches

#### Students

10 records per page

Search:

Department	Year	Semistar	Course Years	Actions
BBA	3rd	5th	2015 - 2018	
BCA	2nd	3rd	2016 - 2019	
BCA	3rd	5th	2015 - 2018	
MCA	2nd	3rd	2016 - 2019	
MCA	3rd	5th	2015 - 2018	

Showing 1 to 5 of 5 entries

Previous 1 Next

Add a Batch

Powered by 000webhost 856 PM

Tict Attendance System x

Secure | https://ticteduattendance.000webhostapp.com/home/misc

## Attendance MS

Sourav Das

Dashboard

My Classes

Take Attendance

View Attendance

Current Semester

Previous Semester

Admin Settings

Miscellaneous Settings

### Miscellaneous Settings

home / misc / Miscellaneous Settings

#### Semester Details

No Of Semester : 6

01 Jul 2017	1st 31 Dec 2017	2nd 01 Jul 2018	3rd 31 Dec 2018	4th 01 Jul 2019	5th 31 Dec 2019	6th 30 Jun 2020
-------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------

Semester Length ( in days )

Semester Start Day 1

Semester Start Month 7

Total Years in Course 3

SUBMIT

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Tict Attendance System x

Secure | https://ticteduattendance.000webhostapp.com/home/class

## Attendance MS

Sourav Das

- Dashboard
- My Classes
- Take Attendance
- View Attendance
- Current Semester
- Previous Semester
- Admin Settings
- Miscellaneous Settings

### Department - Streams

home / class / Department - Streams

#### Streams

- BBA - Bachelor Of Business Administration
- BCA - Bachelor Of Computer Application

3rd - Semester

5th - Semester

**BCA E501-C**  
Multimedia & E-Commerce

**BCA501**  
Data Communication & Computer Networks

**BCA502**  
Unix And Shell Programming

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This screenshot shows the 'Department - Streams' section of the Attendance MS application. It lists two streams: 'BBA - Bachelor Of Business Administration' and 'BCA - Bachelor Of Computer Application'. Under each stream, there are two courses: '3rd - Semester' and '5th - Semester'. The '3rd - Semester' section contains 'BCA E501-C' (Multimedia & E-Commerce), 'BCA501' (Data Communication & Computer Networks), and 'BCA502' (Unix And Shell Programming). The '5th - Semester' section is partially visible. The interface includes a sidebar with user information and navigation links, and a footer with system status and branding.

Tict Attendance System x

Secure | https://ticteduattendance.000webhostapp.com/home/long.term/view/1

## Attendance MS

Sourav Das

- Dashboard
- My Classes
- Take Attendance
- View Attendance
- Current Semester
- Previous Semester
- Admin Settings
- Miscellaneous Settings

### Student Overview

home / long.term / view / 1 / Student Overview

#### 2015 - 2018 Batch

Attendance Records of Last Semesters

10 records per page

Search:

Actions	Roll No	Name	Percentage	Attendance
<button>VIEW</button>	1	Abhishek Kumar Soren	55.36 %	124
<button>VIEW</button>	2	Agnibha Roychowdhury	72.32 %	162
<button>VIEW</button>	3	Amalita Khanra	32.59 %	73
<button>VIEW</button>	4	Amit Dutta	78.13 %	175
<button>VIEW</button>	5	Anamika Kumari	39.73 %	89
<button>VIEW</button>	6	Anish Datta	50.45 %	113

60

Student Count

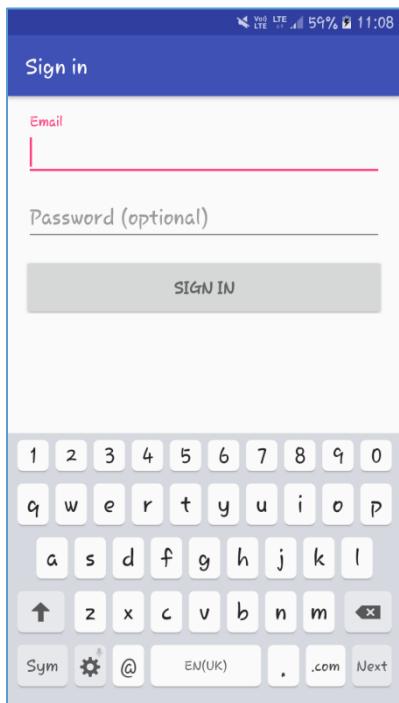
https://ticteduattendance.000webhostapp.com/home/long.term/view/1

Powered by 000webhost 859 PM

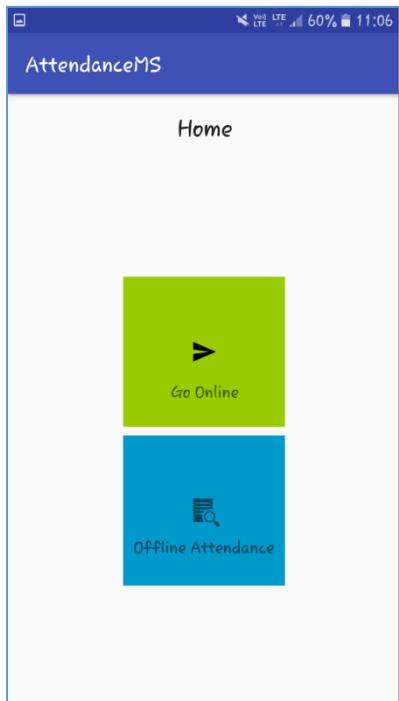
This screenshot shows the 'Student Overview' page for the '2015 - 2018 Batch'. It displays attendance records for the last semesters. The table lists six students with their roll numbers, names, percentages, and attendance counts. Each student row has a 'VIEW' button in the 'Actions' column. To the right of the table is a summary box showing a student icon and the number '60'. The interface includes a sidebar with user information and navigation links, and a footer with system status and branding.

## FEATURE DESIGN (ANDROID APP)

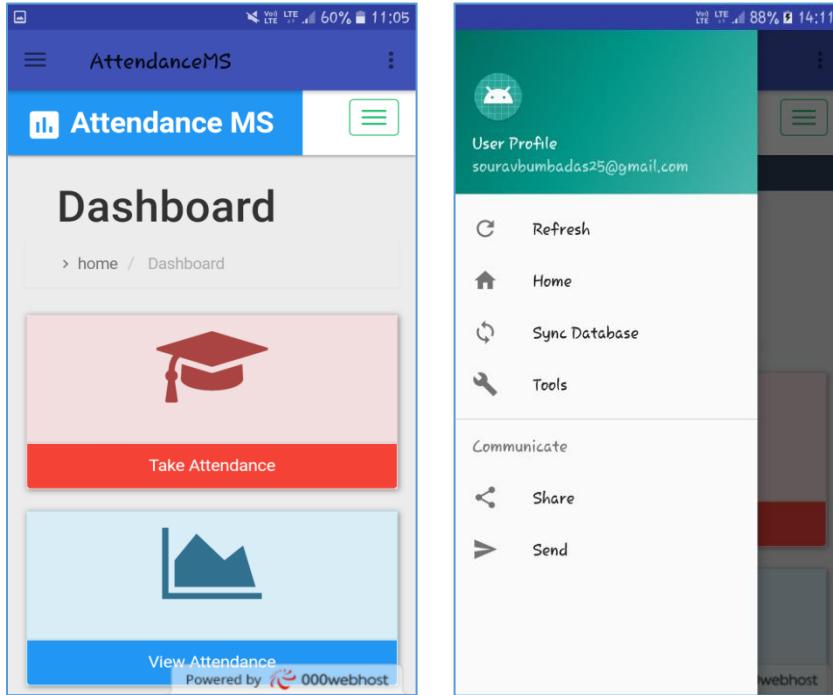
- Sign In



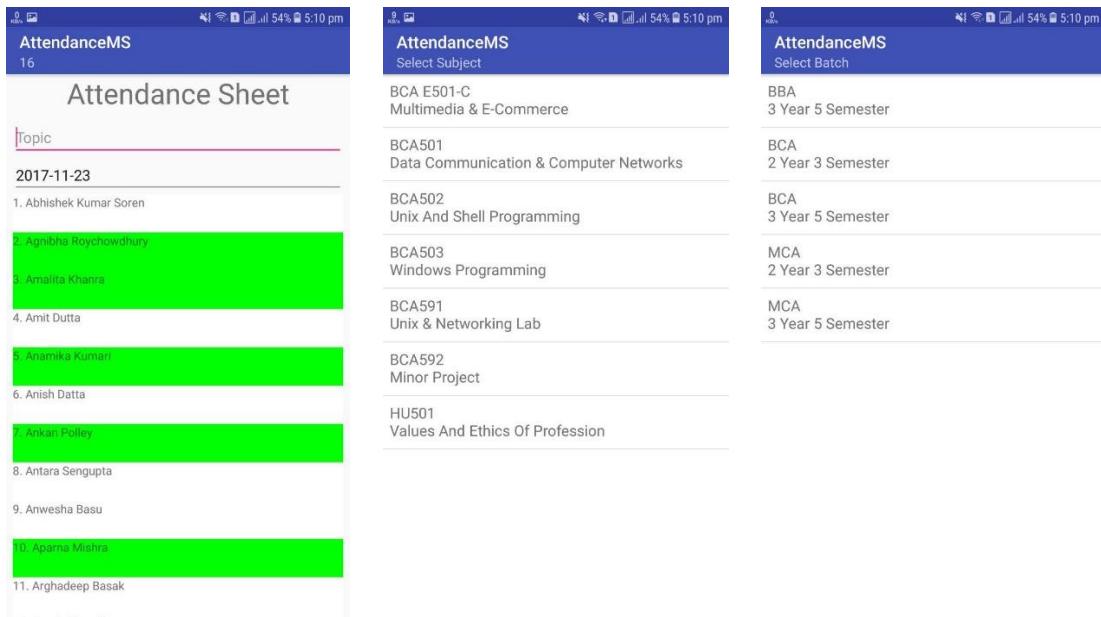
- Home



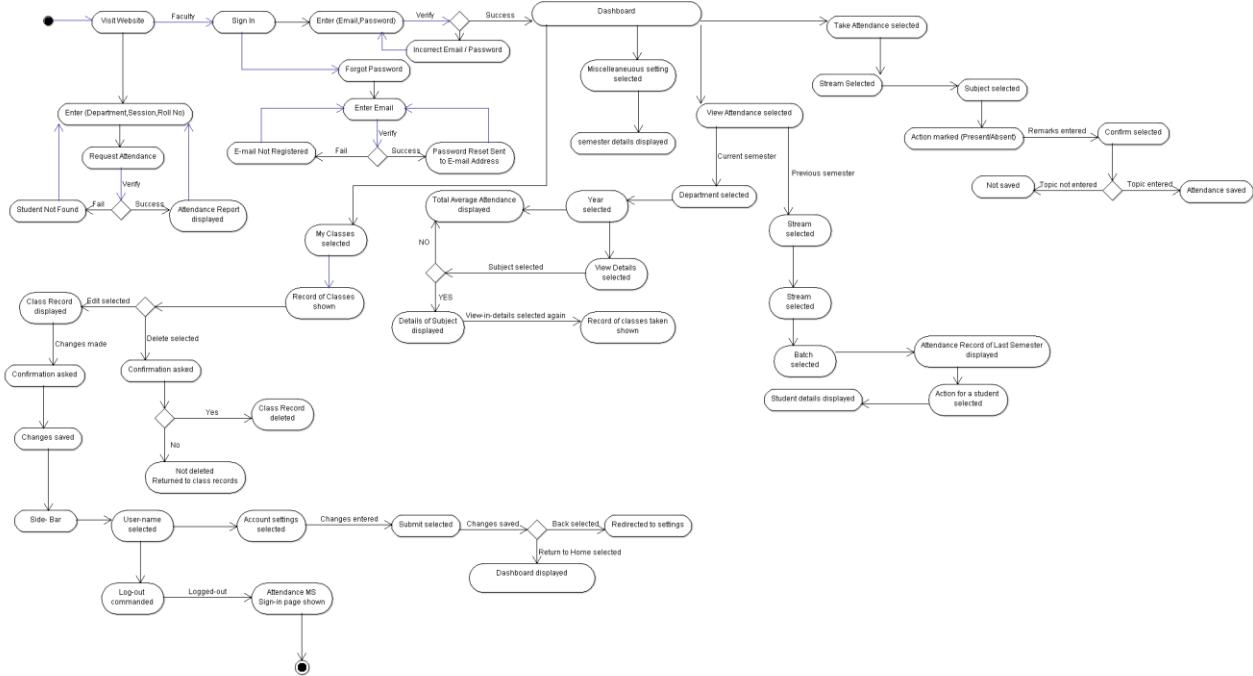
- **Online Pages**



- **Offline Attendance**



## Activity Diagram



## Back End / Server Design

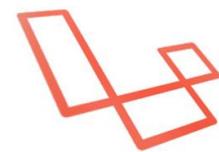
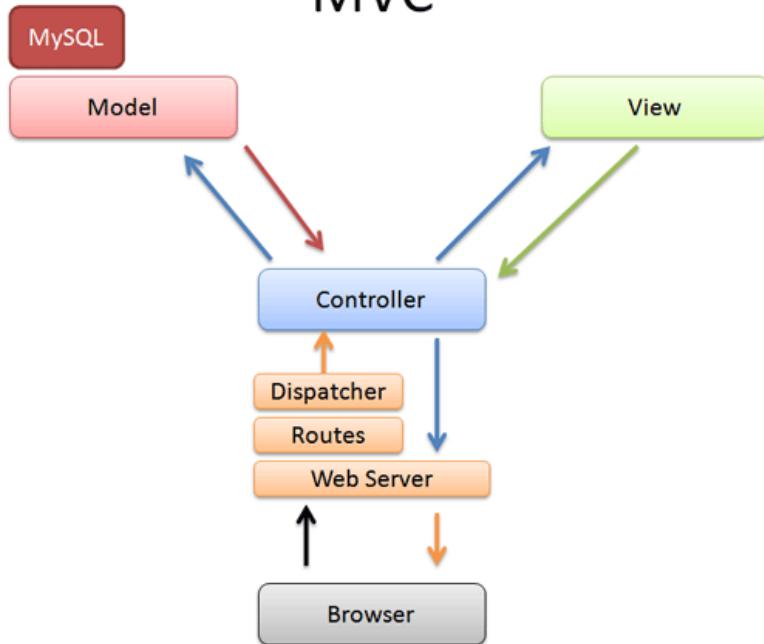
- Data Flow Diagram

### Model View Controller

Our server is backed by Laravel the best web framework offered by PHP.

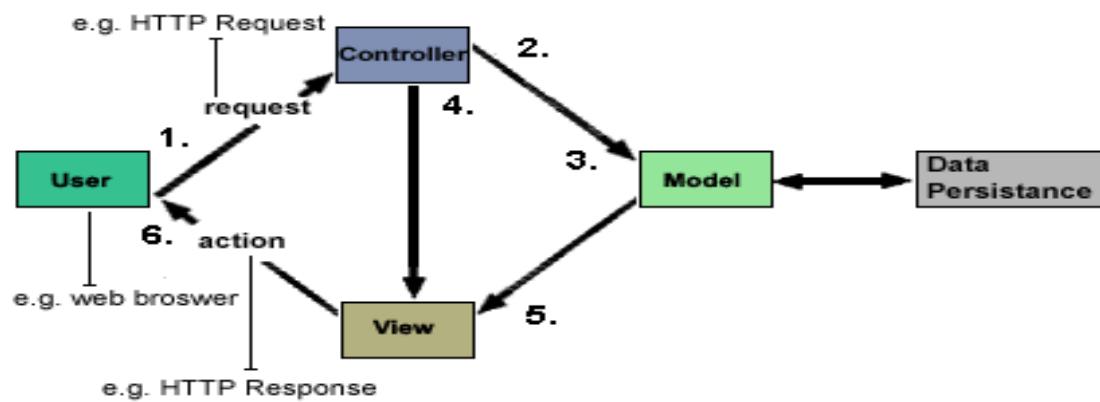
Laravel Offers a MVC architecture which is backed by the best security.

# MVC



laravel

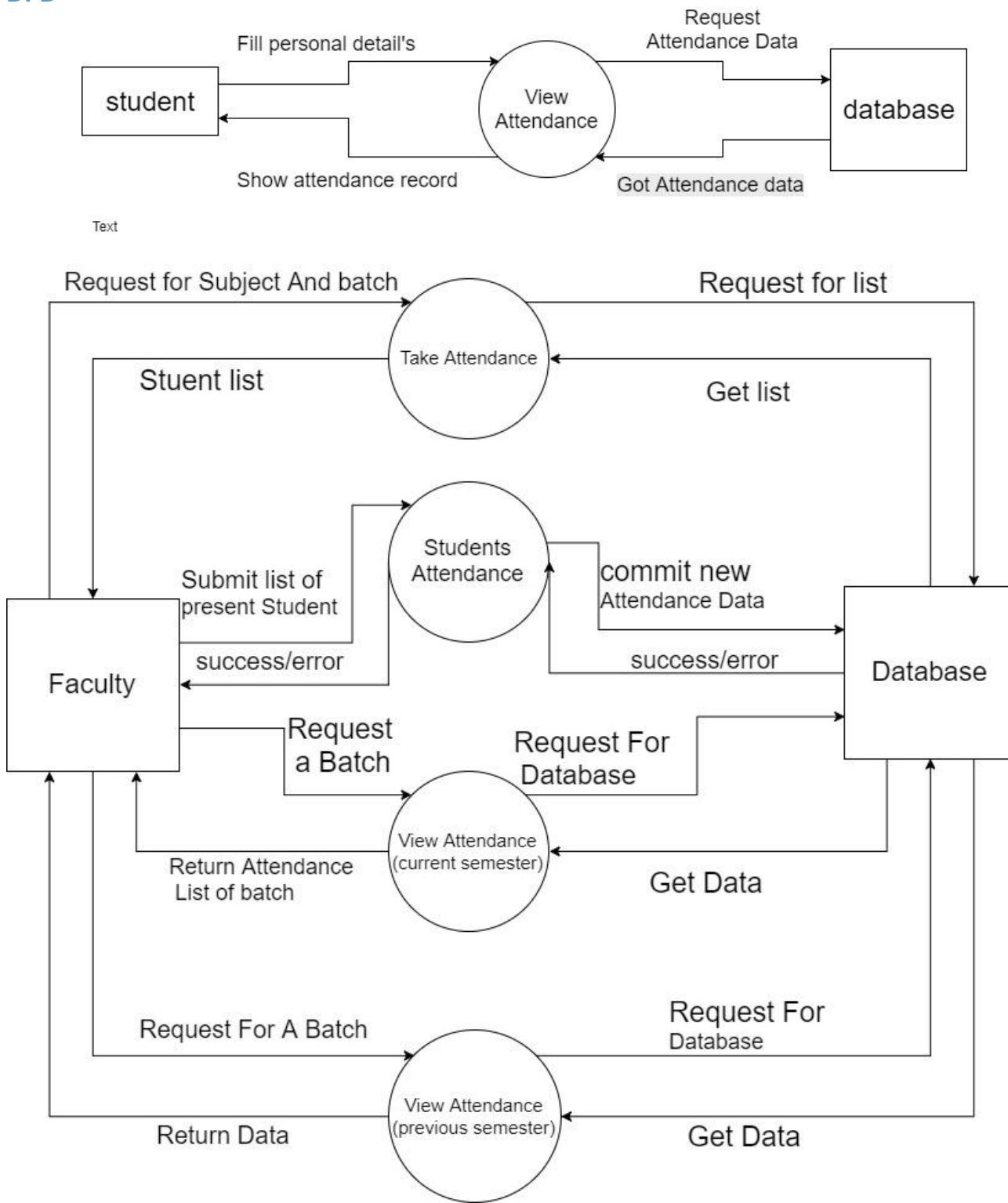
All Request follows the route below with a slight detour.



- **Laravel**

Features Offered by Laravel Are:

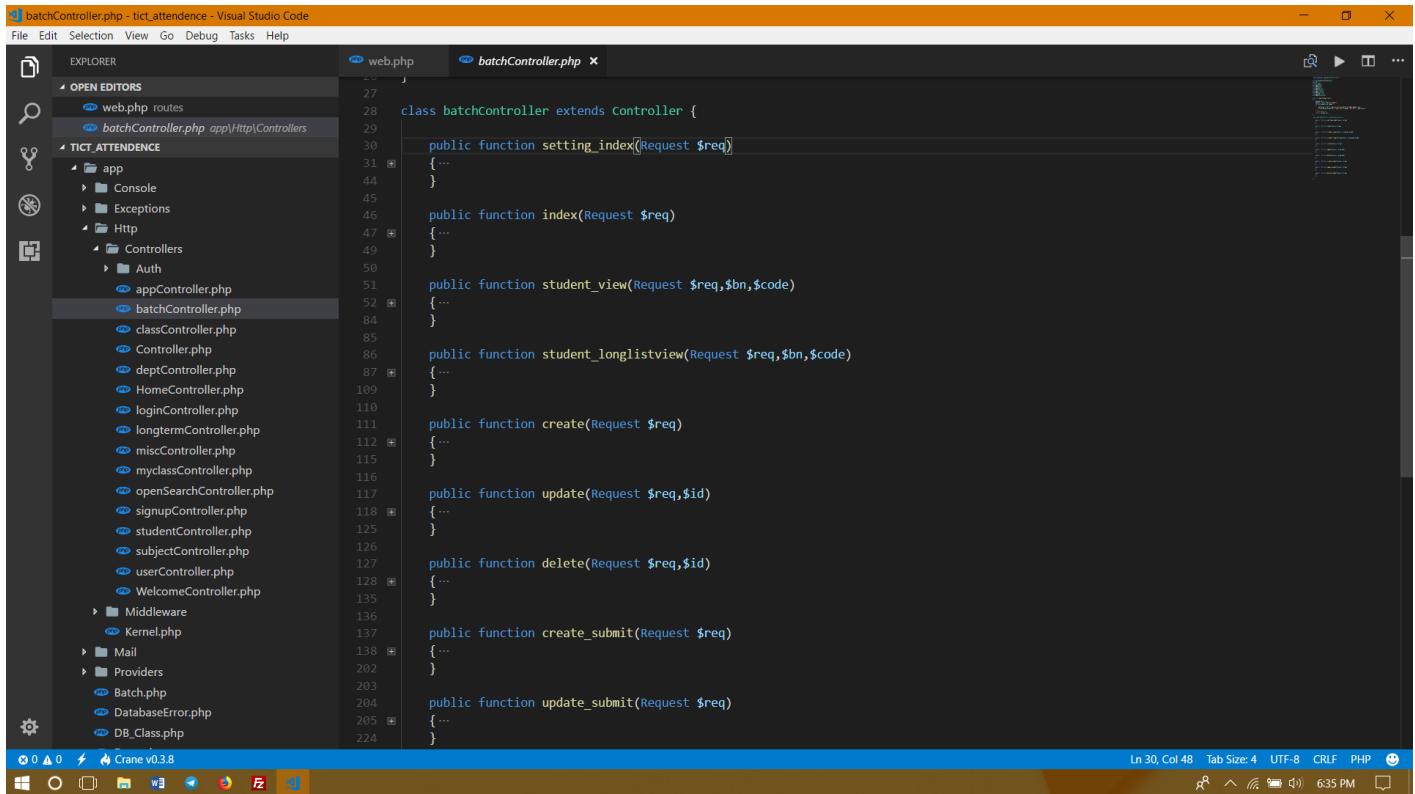
- Template Engine
- Eloquent ORM (object-relational mapping)
- MVC Architecture Support
- Migration system for databases
- Security (SQL Injection, XSS Attacks)



# IMPLEMENTATION

## Coding

- Controllers



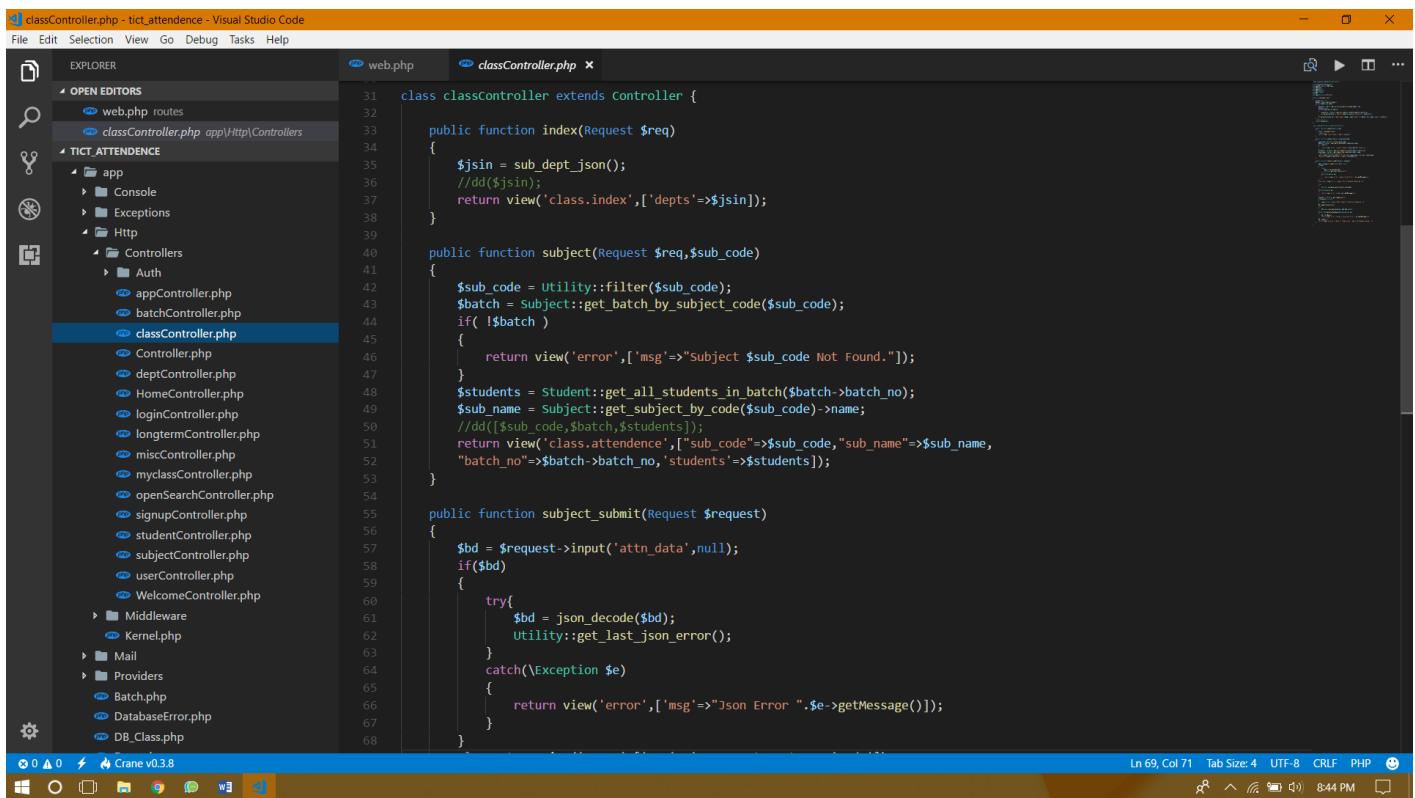
batchController.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER OPEN EDITORS web.php batchController.php app\Http\Controllers TICT\_ATTENDANCE app Console Exceptions Http Controllers Auth appController.php batchController.php classController.php Controller.php deptController.php HomeController.php loginController.php longtermController.php miscController.php myclassController.php openSearchController.php signupController.php studentController.php subjectController.php userController.php WelcomeController.php Middleware Kernel.php Mail Providers Batch.php DatabaseError.php DB\_Class.php

```
class batchController extends Controller {  
    public function setting_index(Request $req)  
    {  
    }  
  
    public function index(Request $req)  
    {  
    }  
  
    public function student_view(Request $req,$bn,$code)  
    {  
    }  
  
    public function student_longlistview(Request $req,$bn,$code)  
    {  
    }  
  
    public function create(Request $req)  
    {  
    }  
  
    public function update(Request $req,$id)  
    {  
    }  
  
    public function delete(Request $req,$id)  
    {  
    }  
  
    public function create_submit(Request $req)  
    {  
    }  
  
    public function update_submit(Request $req)  
    {  
    }  
}
```

Ln 30, Col 48 Tab Size: 4 UTF-8 CRLF PHP



classController.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER OPEN EDITORS web.php classController.php app\Http\Controllers TICT\_ATTENDANCE app Console Exceptions Http Controllers Auth appController.php batchController.php classController.php Controller.php deptController.php HomeController.php loginController.php longtermController.php miscController.php myclassController.php openSearchController.php signupController.php studentController.php subjectController.php userController.php WelcomeController.php Middleware Kernel.php Mail Providers Batch.php DatabaseError.php DB\_Class.php

```
class classController extends Controller {  
    public function index(Request $req)  
    {  
        $jsin = sub_dept_json();  
        //dd($jsin);  
        return view('class.index',[ 'depts'=>$jsin]);  
    }  
  
    public function subject(Request $req,$sub_code)  
    {  
        $sub_code = Utility::filter($sub_code);  
        $batch = Subject::get_batch_by_subject_code($sub_code);  
        if( !$batch )  
        {  
            return view('error',[ 'msg'=>"Subject $sub_code Not Found." ]);  
        }  
        $students = Student::get_all_students_in_batch($batch->batch_no);  
        $sub_name = Subject::get_subject_by_code($sub_code)->name;  
        //dd([$sub_code,$batch,$students]);  
        return view('class.attendance',[ "sub_code"=>$sub_code,"sub_name"=>$sub_name,  
        "batch_no"=>$batch->batch_no,'students'=>$students]);  
    }  
  
    public function subject_submit(Request $request)  
    {  
        $bd = $request->input('attn_data',null);  
        if($bd)  
        {  
            try{  
                $bd = json_decode($bd);  
                Utility::get_last_json_error();  
            }  
            catch(\Exception $e)  
            {  
                return view('error',[ 'msg'=>"Json Error ".$e->getMessage() ]);  
            }  
        }  
    }  
}
```

Ln 69, Col 71 Tab Size: 4 UTF-8 CRLF PHP

File Edit Selection View Go Debug Tasks Help

EXPLORER OPEN EDITORS web.php deptController.php x

```

7 class deptController extends Controller {
8
9     public function index(Request $req)
10    {
11        $st = Utility::filter($req->input('search_text', null));
12        $data_list = ['st' => $st];
13        $data_list['depts'] = Dept::search_dept($st);
14        return view('dept.index', $data_list);
15    }
16
17    public function create(Request $req)
18    {
19        return view('dept.create');
20    }
21
22    public function update(Request $req, $id)
23    {
24        $id = Utility::is_integer($id);
25        if (!$id) return view('error', ['msg' => 'Department Doesn\'t exists.']);
26        $a = Dept::get_from_id($id);
27        if (!$a) return view('error', ['msg' => 'Department Doesn\'t exists.']);
28        return view('dept.update', ['edit' => true, 'dept' => $a]);
29    }
30
31    public function delete(Request $req, $id)
32    {
33        $id = Utility::is_integer($id);
34        if ($id == null) return view('error', ['msg' => 'Department Doesn\'t exists.']);
35        $dept = Dept::get_from_id($id);
36        return view('confirm', ['id' => $id, 'method' => 'post',
37            'msg' => "You want to delete '$dept->dept_name' department ? \n All Subjects should be deleted first."]);
38    }
39
40    public function delete_submit(Request $req)
41    {
42        $id = Utility::is_integer($req->input('id', null));
43        if ($id == null) return view('error', ['msg' => 'Department Doesn\'t exists.']);
44        $cns = Utility::is_bool($req->input('answ') == '1');
45    }

```

PHP File Indexing Complete! 0 0 0 ✓ 8:44 PM

File Edit Selection View Go Debug Tasks Help

EXPLORER OPEN EDITORS web.php deptController.php HomeController.php x

```

8 use Illuminate\Support\Facades\;
9
10 class HomeController extends Controller {
11
12     public function index(Request $req)
13     {
14         $user_id = Utility::get_logged_user();
15         $data = User::get_subject_class_count_taken_by_user_id($user_id);
16         $al = User::get_top_4_student_of_teacher($user_id);
17         return view('home', ['data' => $data, 'al' => $al]);
18     }
19
20     public function settings(Request $req)
21     {
22         $user_id = Utility::get_logged_user();
23         $data = User::get_user_by_id($user_id);
24         //dd($data);
25         return view('settings', ["data" => $data]);
26     }
27
28     public function settings_oas_index(Request $req)
29     {
30         return view('home_settings');
31     }
32
33     public function user_edit_submit(Request $req)
34     {
35         $user_id = Utility::get_logged_user();
36         $name = Utility::filter($req->get('name'));
37         $email = Utility::is_email($req->get('email'));
38         if ($email == null) return view('error', ['msg' => 'Email Not Valid.']);
39         $phn = Utility::filter($req->get('phn'));
40         DB::beginTransaction();
41         try
42         {
43             User::db_update($user_id, $name, $email, $phn);
44         }
45         catch (\Illuminate\Database\QueryException $e)
46         {

```

Crane v0.3.8 0 0 0 ✓ 8:45 PM

longtermController.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

- OPEN EDITORS
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        - batchController.php
        - classController.php
        - Controller.php
        - deptController.php
        - HomeController.php
        - loginController.php
        - longtermController.php
        - miscController.php
        - myclassController.php
        - openSearchController.php
        - signupController.php
        - studentController.php
        - subjectController.php
        - userController.php
        - WelcomeController.php
      - Middleware
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Crane v3.8.8

Ln 144, Col 85 Spaces: 4 UTF-8 LF PHP

myclassController.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

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  - myclassController.php app\Http\Controllers
- TICT\_ATTENDANCE
  - app
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      - Auth
        - appController.php
        - batchController.php
        - classController.php
        - Controller.php
        - deptController.php
        - HomeController.php
        - loginController.php
        - longtermController.php
        - miscController.php
        - myclassController.php
        - openSearchController.php
        - signupController.php
        - studentController.php
        - subjectController.php
        - userController.php
        - WelcomeController.php
      - Middleware
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      - Mail
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Crane v3.8.8

Ln 36, Col 9 (42 selected) Tab Size: 4 UTF-8 CRLF PHP

## • Routes

This screenshot shows the Visual Studio Code interface with the file `web.php` open. The code defines various routes for a Laravel application, including routes for authentication, user management, and different application modules like home, faculty, and dept.

```
Route::get('/bec/year', 'openYearController@getYear');

Route::get('/signup', 'signupController@index');
Route::post('/signup/store', 'signupController@store');

Route::get('/welcome', [ 'uses' => function() {
    return redirect('/');
}]);

Route::post('/login.verify', 'loginController@in');
Route::get('/logout', 'loginController@out');
Route::get('/forgot_password', 'loginController@fp_index');
Route::post('/password/reset', 'loginController@fp_reset');
Route::get('/password/token/{token}', 'loginController@fp_reset_token');
Route::get('/password/delete/{token}', 'loginController@fp_delete_token');
Route::post('/password/reset/submit', 'loginController@fp_reset_submit');

Route::group(['prefix' => '/home', 'middleware'=>'home'], function()
{
    //Route::auth();
    Route::get('/', [ 'as' => 'home' , 'uses'=>'HomeController@index' ] );
    Route::get('/settings', 'HomeController@settings');
    Route::get('/settings/oas', 'HomeController@settings_oas_index');
    Route::post('/settings/user/submit', 'HomeController@user_edit_submit');
    Route::post('/settings/password/submit', 'HomeController@user_password_submit');
    Route::group(['prefix' => '/faculty'] , function()
    {
        ...
    });
    Route::group(['prefix' => '/dept'] , function()
    {
        ...
    });
});

Route::post('/password/reset/submit', 'loginController@fp_reset_submit');

Route::group(['prefix' => '/home', 'middleware'=>'home'], function()
{
    //Route::auth();
    Route::get('/', [ 'as' => 'home' , 'uses'=>'HomeController@index' ] );
    Route::get('/settings', 'HomeController@settings');
    Route::get('/settings/oas', 'HomeController@settings_oas_index');
    Route::post('/settings/user/submit', 'HomeController@user_edit_submit');
    Route::post('/settings/password/submit', 'HomeController@user_password_submit');
    Route::group(['prefix' => '/faculty'] , function()
    {
        ...
    });
    Route::group(['prefix' => '/dept'] , function()
    {
        ...
    });
});
```

The status bar at the bottom indicates the code is at line 29, column 4, with tab size 4, UTF-8 encoding, and PHP selected. The title bar shows "web.php - tict\_attendance - Visual Studio Code".

This screenshot shows the Visual Studio Code interface with the file `web.php` open. The code provides more detailed route definitions, including specific route names and controllers for various application modules like seeds, assets, lang, views, and different controller groups.

```
Route::post('/password/reset/submit', 'loginController@fp_reset_submit');

Route::group(['prefix' => '/home', 'middleware'=>'home'], function()
{
    //Route::auth();
    Route::get('/', [ 'as' => 'home' , 'uses'=>'HomeController@index' ] );
    Route::get('/settings', 'HomeController@settings');
    Route::get('/settings/oas', 'HomeController@settings_oas_index');
    Route::post('/settings/user/submit', 'HomeController@user_edit_submit');
    Route::post('/settings/password/submit', 'HomeController@user_password_submit');
    Route::group(['prefix' => '/faculty'] , function()
    {
        ...
    });
    Route::group(['prefix' => '/dept'] , function()
    {
        ...
    });
});

Route::group(['prefix' => '/home', 'middleware'=>'home'], function()
{
    //Route::auth();
    Route::get('/', [ 'as' => 'home' , 'uses'=>'HomeController@index' ] );
    Route::get('/settings', 'HomeController@settings');
    Route::get('/settings/oas', 'HomeController@settings_oas_index');
    Route::post('/settings/user/submit', 'HomeController@user_edit_submit');
    Route::post('/settings/password/submit', 'HomeController@user_password_submit');
    Route::group(['prefix' => '/faculty'] , function()
    {
        ...
    });
    Route::group(['prefix' => '/dept'] , function()
    {
        ...
    });
});
```

The status bar at the bottom indicates the code is at line 39, column 69, with tab size 4, UTF-8 encoding, and PHP selected. The title bar shows "web.php - tict\_attendance - Visual Studio Code".

## • Models

The screenshot shows the Visual Studio Code interface with the file `Dept.php` open. The code defines a `Dept` class with methods for getting all departments, searching by name or course years, getting a department by ID, inserting a new department, and updating a department's name and course years.

```

4 use DB;
5
6 class Dept
7 {
8     public static function get_all_dept()
9     {
10        /*
11         * id
12         * name
13         * full_name
14         * course_years
15         * hod
16         */
17        return DB::select('SELECT *FROM dept ORDER BY name;');
18    }
19
20    public static function search_dept($search_text) // " " OR 1 OR LIKE "" LIKE '%' OR 1 OR LIKE '%'
21    {
22        $search_text = "%" . $search_text . "%";
23        $query = "SELECT * FROM dept_view
24        WHERE dept_name LIKE ? OR
25        full_name LIKE ? OR
26        course_years LIKE ? ";
27        return DB::select($query,[$search_text,$search_text,$search_text]);
28    }
29
30    public static function get_from_id($id)
31    {
32        $query = "SELECT * FROM dept_view WHERE id = ? ";
33        $r = DB::select($query,[ $id ]);
34        if( count($r) < 1 || $r == null ) return null;
35        return $r[0];
36    }
37
38    public static function insert_and_return_id($dept_name,$dept_fullname,$dept_course_years)
39    {
40        DB::insert('INSERT INTO dept(name,full_name,course_years) VALUES(?, ?, ?)',[$dept_name,$dept_fullname,$dept_course_years]
41        $dept_id = DB::select( 'SELECT LAST_INSERT_ID() AS id; ')[0]->id;
42        for($i=1;$i<=$dept_course_years*2;$i++)
43    }
44
45    public static function update_from_id($id,$dept_name,$dept_fullname,$dept_course_years)
46    {
47        DB::update('UPDATE dept SET name = ?,full_name = ?,course_years=? WHERE id = ?', [
48            $dept_name,
49            $dept_fullname,
50            $dept_course_years,
51            $id
52        ]);
53    }
54
55}

```

This screenshot shows the same `Dept.php` file in Visual Studio Code, but with additional code at the bottom for inserting multiple rows into the `batch` table. It loops through the course years and inserts each row with the corresponding department ID.

```

6 class Dept
7 {
8     public static function get_all_dept()
9     {
10        ...
11    }
12
13    public static function search_dept($search_text) // " " OR 1 OR LIKE "" LIKE '%' OR 1 OR LIKE '%'
14    {
15        $search_text = "%" . $search_text . "%";
16        $query = "SELECT * FROM dept_view
17        WHERE dept_name LIKE ? OR
18        full_name LIKE ? OR
19        course_years LIKE ? ";
20        return DB::select($query,[$search_text,$search_text,$search_text]);
21    }
22
23    public static function get_from_id($id)
24    {
25        $query = "SELECT * FROM dept_view WHERE id = ? ";
26        $r = DB::select($query,[ $id ]);
27        if( count($r) < 1 || $r == null ) return null;
28        return $r[0];
29    }
30
31    public static function insert_and_return_id($dept_name,$dept_fullname,$dept_course_years)
32    {
33        DB::insert('INSERT INTO dept(name,full_name,course_years) VALUES(?, ?, ?)',[$dept_name,$dept_fullname,$dept_course_years]
34        $dept_id = DB::select( 'SELECT LAST_INSERT_ID() AS id; ')[0]->id;
35        for($i=1;$i<=$dept_course_years*2;$i++)
36        {
37            DB::insert('INSERT INTO batch(sem_no,dept_id) VALUES(?,?) ',[$i,$dept_id] );
38        }
39        return $dept_id ;
40    }
41
42    public static function update_from_id($id,$dept_name,$dept_fullname,$dept_course_years)
43    {
44        DB::update('UPDATE dept SET name = ?,full_name = ?,course_years=? WHERE id = ?', [
45            $dept_name,
46            $dept_fullname,
47            $dept_course_years,
48            $id
49        ]);
50    }
51
52}

```

MyCsv.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

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  - DB\_Class.php
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    - factories
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    - database-actual.sql
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  - public\_html

MyCsv.php

```

7 class MyCsv
8 {
9     public static function csv_to_associative_array($file,$indirect = False)
10    {
11        if($indirect)
12        {
13            $file = storage_path()."./app/".$file;
14            //echo $file;
15        }
16        $file = fopen($file, "r");
17        $fields = fgetcsv($file);
18        $col_count = count($fields);
19        for($i=0;$i<$col_count;$i++)
20        {
21            $fields[$i] = Utility::filter($fields[$i]);
22            if( strlen($fields[$i]) < 1 )
23            {
24                throw new \Exception ("Field Name Is Empty");
25            }
26        }
27        $arr = [];
28        $j = 0;
29        while(! feof($file))
30        {
31            $row = fgetcsv($file);
32            if($row == FALSE) continue;
33            $col_count = count($row);
34            $temp_arr = [];
35            $j++;
36            for($i=0;$i<$col_count;$i++)
37            {
38                $row_value = Utility::filter($row[$i]);
39                $temp_arr[$fields[$i]] = $row_value ;
40                if( strlen($row_value) < 1 )
41                {
42                    throw new \Exception("Cell Is Empty on Row $j ");
43                }
44            }
45        }
46    }
47 }

```

Ln 13, Col 50 Tab Size: 4 UTF-8 CRLF PHP ☺

Normalize.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

- OPEN EDITORS
  - Normalize.php app
- TICT\_ATTENDANCE
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    - database-actual.sql
    - database-data.sql
  - public\_html

Normalize.php

```

7 class Normalize
8 {
9     public static function update($student_id,$sem_no,$attn,$total)
10    {
11        DB::update("UPDATE lt_student_attendance SET attendance = ? , total = ? WHERE student_id = ? AND sem_no = ? ",[$attn,$total,$student_id,$sem_no]);
12    }
13
14    public static function delete($student_id,$sem_no)
15    {
16        DB::update("DELETE FROM lt_student_attendance WHERE student_id = ? AND sem_no = ? ",[$student_id,$sem_no]);
17    }
18
19    public static function insert($student_id,$sem_no,$attn,$total)
20    {
21        DB::insert("INSERT INTO lt_student_attendance(attendance,total,student_id,sem_no) VALUES(?, ?, ?, ?)",[$attn,$total,$student_id,$sem_no]);
22    }
23
24    public static function get_lt_student_record($student_id,$sem_no)
25    {
26        $query = "SELECT * FROM lt_student_attendance WHERE student_id = ? AND sem_no = ? ";
27        $query = DB::select($query,[ $student_id,$sem_no ]);
28        if( count($query) <= 0 || $query == null ) return null;
29        return $query[0];
30    }
31
32    public static function get_active_day_by_sem_no($sem_no,$batch_no)
33    {
34        $query = "SELECT active_day_id FROM active_day JOIN sub_dept_view_1 Using(subject_code) WHERE sem_no = ? AND batch_no = ? ";
35        $query = DB::select($query,[ $sem_no,$batch_no ]);
36        if( count($query) <= 0 || $query == null ) return [];
37        return $query;
38    }
39
40    public static function get_all_teacher_taking_subject($subject_code,$batch_no)
41    {
42    }
43
44

```

Ln 30, Col 59 Spaces: 4 UTF-8 LF PHP ☺

Student.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

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  - database-actual.sql
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- public\_html

Student.php ×

```
53  {
54  ...
55  }
56
57  public static function get_total_attendance_of_student_by_sem($student_id,$batch_no,$sem_no)
58  {
59  /*
60  * attendance
61  */
62  $query = "SELECT
63  IF(SUM(mark_count) is Null , 0 , SUM(mark_count)) As attn
64  FROM
65  student_attendance
66  JOIN
67  active_day USING(active_day_id)
68
69  JOIN
70  sub_dept_view_1 USING(subject_code)
71  WHERE
72  active_day.batch_no = ? AND student_attendance.student_id = ? AND sem_no = ?";
73  $r = DB::select($query,[batch_no,$student_id,$sem_no]);
74  if(count($r) < 1) return 0;
75  return $r[0]->attn;
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
```

Ln 177, Col 6 Tab Size: 4 UTF-8 CRLF PHP

Subject.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

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Subject.php ×

```
8
9
10 class Subject
11 {
12     public static function search_subject($search_text)
13     {
14         $search_text = "%$search_text%";
15         $query = "SELECT * FROM sub_dept_view_1
16         WHERE subject_name LIKE ? OR
17         subject_code LIKE ? OR
18         dept_name LIKE ? ORDER BY dept_id , sem_no ASC";
19         return DB::select($query,[search_text,$search_text,$search_text]);
20     }
21
22     public static function search_subject_with_batch_id($search_text,$batch_id)
23     {
24         $search_text = "%$search_text%";
25         $query = "SELECT * FROM sub_dept_view_1
26         WHERE (subject_name LIKE ? OR
27         subject_code LIKE ? OR
28         dept_name LIKE ?) AND batch_id = ? ORDER BY dept_id , sem_no ASC";
29         return DB::select($query,[search_text,$search_text,$search_text,$batch_id]);
30     }
31
32     public static function get_subject_by_code($subject_code)
33     {
34         $r = DB::table('subject')->where('code',$subject_code)->get();
35         if( count($r) < 1 || $r == null )
36         {
37             return null;
38         }
39         return $r[0];
40     }
41
42     public static function insert_and_return_code($subject_name,$subject_code,$batch_id)
43     {
44         DB::insert('INSERT INTO subject(name,code,batch_id) VALUES(?, ?, ?)',[$subject_name,$subject_code,$batch_id] );
45         return $subject_code;
46     }
47
```

Ln 30, Col 47 (19 selected) Spaces: 4 UTF-8 LF PHP

User.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

OPEN EDITORS User.php app

TICT\_ATTENDANCE

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User.php

```
4
5 class User {
6
7     public static function insert_by_signUp($user_name,$email,$phone,$password,$user_type)
8     {
9         $DB::insert("INSERT into users (name,email,password,phn_no,user_type) values (?, ?, ?, ?, ?)", [$user_name, $email, $password, $phone, $user_type]);
10        return $DB::select('SELECT LAST_INSERT_ID() AS id')[0]->id;
11    }
12
13    public static function db_insert($un,$ue,$up)
14    {
15        $DB::insert("INSERT into users (name,email,password,phn_no,user_type) values (?, ?, ?, NULL, 'normal')", [$un, $ue, $up]);
16        return $DB::select('SELECT LAST_INSERT_ID() AS id')[0]->id;
17    }
18
19    public static function db_update($user_id,$name,$email,$phn)
20    {
21        $query = "UPDATE users SET name = ? , phn_no = ? , email = ? WHERE id = ?";
22        $DB::update($query,[ $name,$phn,$email,$user_id]);
23        return true;
24    }
25
26    public static function update_user_by_admin($user_id,$user_type,$user_dept)
27    {
28        if($user_dept == null)
29        {
30            $DB::update("UPDATE users SET user_type = ? WHERE id = ?", [$user_type,$user_id]);
31        }
32        else if($user_type == null)
33        {
34            $DB::update("UPDATE users SET dept_id = ? WHERE id = ?", [$user_dept,$user_id]);
35        }
36        else
37        {
38            $DB::update("UPDATE users SET user_type = ? , dept_id = ? WHERE id = ?", [$user_type,$user_dept,$user_id]);
39        }
40        return true;
41    }
42}
```

Ln 310, Col 50 Tab Size: 4 UTF-8 LF PHP

Crane v0.3.8

Windows Taskbar

Utility.php - tict\_attendance - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

OPEN EDITORS Utility.php app

TICT\_ATTENDANCE

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- public\_html

Utility.php

```
8
9 class Utility
10 {
11     public static function filter($var)
12     {
13         $var = trim($var);
14         $var = filter_var($var, FILTER_SANITIZE_STRING, FILTER_FLAG_STRIP_HIGH);
15         return $var;
16     }
17
18     public static function is_email($var)
19     {
20         $var = Utility::filter($var);
21         $var = filter_var($var, FILTER_SANITIZE_EMAIL);
22         if( !filter_var($var, FILTER_VALIDATE_EMAIL) === false )
23         {
24             return $var;
25         }
26         return null;
27     }
28
29     public static function is_integer($var)
30     {
31         $var = Utility::filter($var);
32         $var = filter_var($var, FILTER_SANITIZE_NUMBER_INT);
33         if (filter_var($var, FILTER_VALIDATE_INT) === 0 || !filter_var($var, FILTER_VALIDATE_INT) === false)
34         {
35             return $var;
36         }
37         if(is_numeric($var))return $var;
38         return null;
39     }
40
41     public static function is_bool($var)
42     {
43         $var = Utility::filter($var);
44         return filter_var($var, FILTER_VALIDATE_BOOLEAN);
45     }
46
47     public static function is_float($var)
48 }
```

Ln 300, Col 6 Spaces: 4 UTF-8 LF PHP

Crane v0.3.8

Windows Taskbar

## • Views

**create.blade.php - tict\_attendance - Visual Studio Code**

```

File Edit Selection View Go Debug Tasks Help
EXPLORER          web.php      create.blade.php x
OPEN EDITORS       web.php routes
                  create.blade.php resources\views\batch
TICT ATTENDANCE
  views
    auth
    batch
      create.blade.php
        index.blade.php
        longlist.blade.php
        setting_index.blade.php
        student.blade.php
        update.blade.php
      class
      dept
      emails
      errors
      forgot_password
        index.blade.php
        reset.blade.php
      layouts
      long_term
      misc
      myclass
        index.blade.php
        update.blade.php
      student
      subject
      user
      vendor
      widgets
      app.blade.php
      confm.blade.php
      confm.blade.php
      0 0 0 🔥 Crane v0.3.8
      Csv.blade.php - tict_attendance - Visual Studio Code
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      EXPLORER          Csv.blade.php x
      OPEN EDITORS       Csv.blade.php resources\views
      TICT ATTENDANCE
        long_term
        misc
        myclass
        student
        subject
        user
        vendor
        widgets
        app.blade.php
        confm.blade.php
        Csv.blade.php
        error.blade.php
        home_settings.blade.php
        home.blade.php
        open_error.blade.php
        open_success.blade.php
        settings.blade.php
        signup.blade.php
        success.blade.php
        welcome.blade.php
      routes
        api.php
        channels.php
        console.php
        web.php
      storage
      tests
      vendor
      .env
      .env.example
      0 0 0 🔥 Crane v0.3.8

```

The image shows two instances of Visual Studio Code side-by-side, both displaying Laravel Blade templates.

The top instance shows the file `create.blade.php` located at `resources\views\batch\create.blade.php`. The code defines a form for creating a new batch, including fields for the starting year and department, and a dropdown menu for selecting the department.

The bottom instance shows the file `Csv.blade.php` located at `resources\views\Csv.blade.php`. This template displays a table of data from an array. It includes logic to check if the array is set and has elements, and then iterates over the array to generate rows in a table.

File Edit Selection View Go Debug Tasks Help

EXPLORER

- OPEN EDITORS
  - home\_settings.blade.php resources\views
- TICT ATTENDENCE
  - long\_term
  - misc
  - myclass
  - student
  - subject
  - user
  - vendor
  - widgets
    - app.blade.php
    - confirm.blade.php
    - Csv.blade.php
    - error.blade.php
    - home\_settings.blade.php
    - home.blade.php
    - open\_error.blade.php
    - open\_success.blade.php
    - settings.blade.php
    - signup.blade.php
    - success.blade.php
    - welcome.blade.php
- routes
  - api.php
  - channels.php
  - console.php
  - web.php
- storage
- tests
- vendor
- .env
- .env.example

gitattributes

0 0 0 🔥 Crane v0.3.8

home\_settings.blade.php - tict\_attendence - Visual Studio Code

```

1  @extends('layouts.dashboard')
2  @section('page_heading','Settings')
3  @section('section')
4
5  <div class="row">
6    <div class="col-md-4 animated bounceInUp">
7      @include('widgets.panel_button',
8        [ 'pb_link'=>'#/home/dept',
9         'pb_icon'=>'fa fa-code-fork fa-5x',
10        'pb_icon_anl'=>"animated shake",
11        'pb_label'=>"Department Settings",
12        'pb_class'=>"info"           ])
13
14  </div>
15  <div class="col-md-4 animated bounceInDown">
16    @include('widgets.panel_button',
17      [ 'pb_link'=> "/home/subject",
18       'pb_icon'=>'fa fa-align-justify fa-5x',
19       'pb_icon_anl'=>"animated shake",
20       'pb_label'=>"Subject Settings",
21       'pb_class'=>"warning"      ])
22
23  </div>
24  <div class="col-md-4 animated bounceInUp">
25    @include('widgets.panel_button',
26      [ 'pb_link'=> "/home/batch/setting/index",
27       'pb_icon'=>'fa fa-users fa-5x',
28       'pb_icon_anl'=>"animated swing",
29       'pb_label'=>"Batch Settings",
30       'pb_class'=>"danger"      ])
31
32  </div>
33  <div class="row">
34    <div class="col-md-4 animated bounceInDown">
35      @include('widgets.panel_button',
36        [ 'pb_link'=> "/home/student",
37         'pb_icon'=>'fa fa-user fa-5x',
38         'pb_icon_anl'=>"animated shake",
39         'pb_label'=>"Student Settings",
40         'pb_class'=>"primary"   ])
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```

Ln 52, Col 29 (17 selected) Spaces: 4 UTF-8 LF Laravel Blade

File Edit Selection View Go Debug Tasks Help

EXPLORER

- OPEN EDITORS
  - welcome.blade.php resources\views
- TICT ATTENDENCE
  - long\_term
  - misc
  - myclass
  - student
  - subject
  - user
  - vendor
  - widgets
    - app.blade.php
    - confirm.blade.php
    - Csv.blade.php
    - error.blade.php
    - home\_settings.blade.php
    - home.blade.php
    - open\_error.blade.php
    - open\_success.blade.php
    - settings.blade.php
    - signup.blade.php
    - success.blade.php
    - welcome.blade.php
- routes
  - api.php
  - channels.php
  - console.php
  - web.php
- storage
- tests
- vendor
- .env
- .env.example

gitattributes

0 0 0 🔥 Crane v0.3.8

welcome.blade.php - tict\_attendence - Visual Studio Code

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```

Ln 299, Col 9 Tab Size: 4 UTF-8 CRLF Laravel Blade

# || TESTING

## PHP Unit

- **Ad Hoc Testing**

- All Pages are Visited and have been accounted for.
- All forms are submitted and conformed.
- All query has been checked.
- All input variable has been thoroughly reviewed.

- **Black Box Testing**

- IT has been tested for quality assurance and UI Ease
- It is also test for learning ease
- Tests has been conducted to verify visual smoothness

# **|| END USER**

## **|| Impact of the project on users.**

- i) The system when in use would automatically update each data pertaining to a student's attendance or a faculty member.
- j) It requires minimum technical attention to operate smoothly on a daily basis.
- k) Calculations can be done automatically by the system.
- l) It is capable to hold data for a minimum of 12000 students and faculty member at a time.
- m) The database requires minimum space without the need of keeping any back -up.
- n) All Faculty Members are capable to see all subjects and take attendance of any class.
- o) All faculty are enabled to view entire attendance history of a student.
- p) However, he/she can make changes to classes taken only by them ensuring accuracy and credibility.
- q) The project ensures smooth attendance taking by providing off-line feature on the app which would be in sync with database when connected to internet.
- r) The project has the following views:
  - i) Faculty wise - Subject wise class count.
  - ii) Student wise – Subject wise Attendance Percent and Count
  - iii) All Classes Taken by the Faculty
  - iv) Student wise – Class date wise Attendance Markings

## **|| Marketing and Future Scope**

1. Enhancing the Smart Feature: Increasing the range covered by Wi-Fi of a smartphone. Making it capable of connecting 100 smartphones at one time.
2. Increasing security feature: Log-in on app to be further secured.
3. Compatibility: Making the app compatible with other Smartphone OS such as Windows and Mac.
4. Improving app- the app will be further designed to increase smooth user-interaction. the offline-system may be improved to not at all require internet connectivity to go offline.

### If the project is commercially feasible :

1. Customized change facility may be adopted according to institution needs.
2. Project may be sold at market value as an information system to the user.

# **|| BIBLIOGRAPHY**

We have taken help and reference from the following

1. Ardent Collaborations
2. Google
3. TICT Faculties
4. Wikipedia
5. Software Development by Rajiv Mall
6. And various tutorial on PHP, CSS, HTML, JS and Android

## **APPROVAL AND AUTHORITY TO PROCEED**

We approve the project as described above, and authorize the team to proceed.

Name	Title	Date

---

Approved By

---

Date

---

Approved By

---

Date