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## Faculty Information System

### **Barge Sandesh**

Ballari Institute Of Technology and  
Management

[sandeshbarga04@gmail.com](mailto:sandeshbarga04@gmail.com)

### **P. Phaniram Prasad**

Ballari Institute Of Technology and  
Management

[Phanirama75@gmail.com](mailto:Phanirama75@gmail.com)

### **Sree Ananth Kumar .P**

Ballari Institute Of Technology and  
Management

[ananthkumar148@gmail.com](mailto:ananthkumar148@gmail.com)

### **Musam Ahmed**

Ballari Institute Of Technology and  
Management

[dadu.moosa1@gmail.com](mailto:dadu.moosa1@gmail.com)

### **Soumya .N**

Ballari Institute Of Technology and  
Management

[soumya050495@gmail.com](mailto:soumya050495@gmail.com)

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**Abstract:** This is a real time Java based web application for faculty management. Where it consists of semester wise department timetable. After completion of every session, they should update student attendance with the respective subject. Where absent students will be informed to their parents via text message. The system will generate the attendance percentage automatically day by day. The faculty can shift their session to another faculty when they are not able to take classes or busy in some other activities and the requested notification can be sent to the faculty mobile number.

**Keywords:** Faculty Session Allotment, Sending SMS to Parents, IA marks/Attendance, Faculty Management System, FIS.

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## I. INTRODUCTION

It consists of three main modules Admin, faculty and student. Where admin can add/modify/delete student and faculty. Department wise time table will be shown. After completion of every session, they should update student attendance with the respective subject. Where absent students will be informed to their parents via text message. The system will generate the attendance percentage automatically day by day. The faculty can shift their session to another faculty when they are not able to take classes or busy in some other activities and the requested notification can be sent to the faculty mobile number.

## II. WORKING OF FACULTY INFORMATION SYSTEM

### ADMIN MODULE

- Can insert/update/delete new student (But, not Feedback).
- Can insert/update/delete new faculty member.
- Admin can modify department time table
- View the final students report.
- Can send the SMS to the student's parent.

### FACULTY MODULE

- Can view their Time Table and Department Time Table.
- Can request for session change in the timetable.
- Can accept the session change requested by another faculty.
- Session request message can be sent to the requesting faculty mobile number.
- Updating the attendance after each session end.
- Generating the reports.
- Sending the reports to the admin.

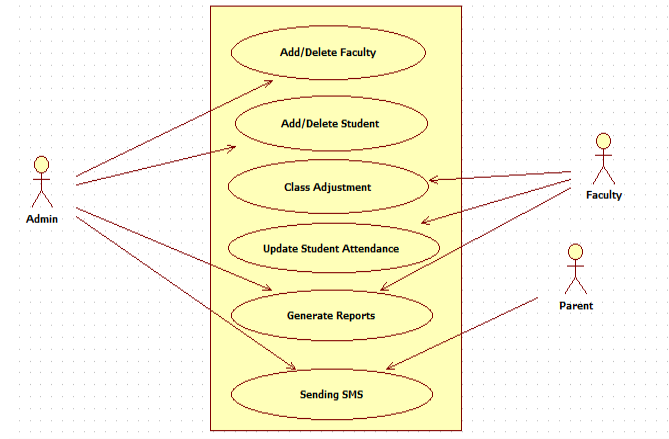
**STUDENT MODULE**

- Students can modify their information
- Students can check their attendance and IA marks.

**OBJECTIVES**

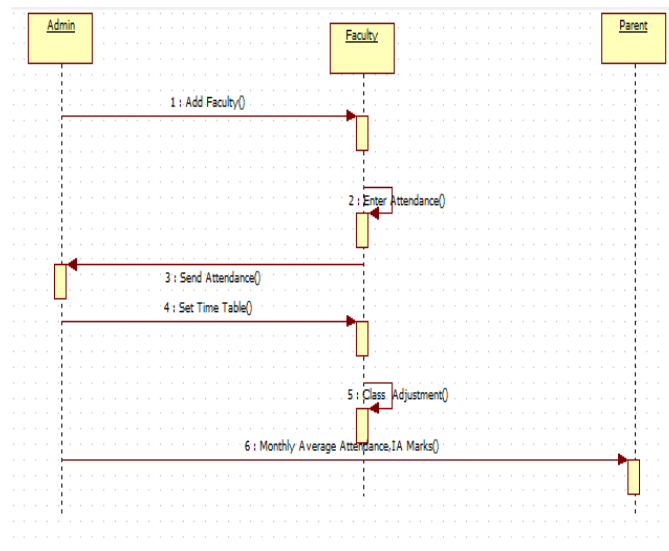
- To provide session management by the system.
- To inform the parents about their wards attendance and IA marks.

**III. DESIGN**



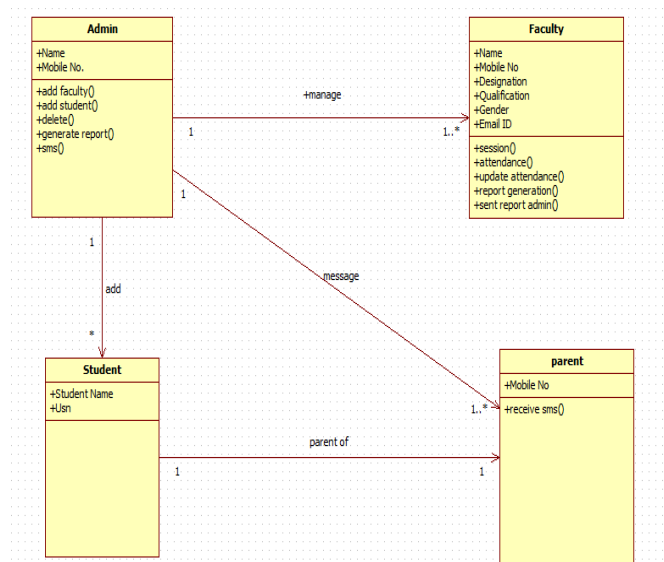
**Fig 3.1 Use case diagram**

- Use cases for admin are to add and delete students, faculty, generate reports and to send SMS.
- Faculty can allot their sessions to other faculties and can update their student’s attendance and marks as well.
- Faculty generates reports and sends it to the admin.
- Sending of SMS is done by the admin to parents



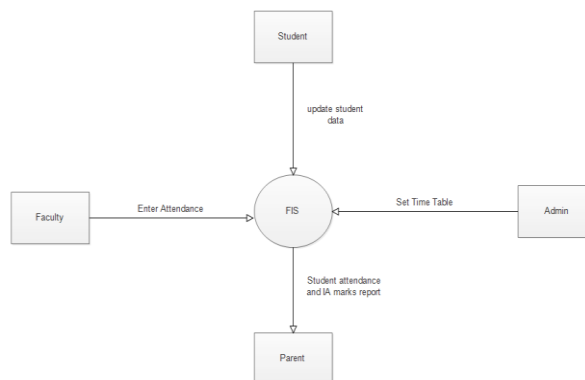
**Fig 3.2 Sequence diagram**

- Admin adds the faculty.
- Faculty enters the student’s attendance and marks.
- Faculty sends attendance and marks to the admin.
- Admin sets the department and faculty timetable.
- Session allotment is done by faculty.
- Faculty sends a report to admin.
- Admin sends monthly average attendance and Internal Assessment marks to the parents.



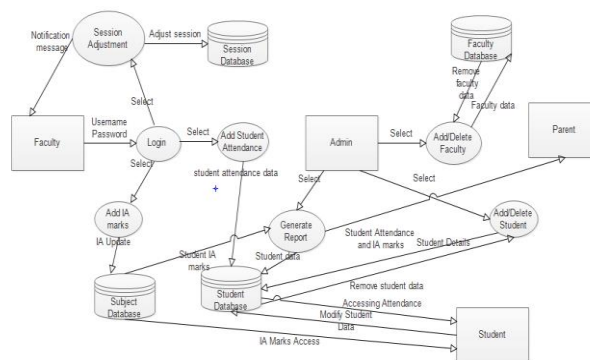
**Fig. 1 Class Diagram**

- The attributes for admin class are Name, Mobile Nowhere it performs public operations like add faculty(), add student(), delete faculty(), generate reports(), sending sms ().
- The admin manages in the directed association where one admin can manage one or more (\*) faculty members.
- The attributes for faculty class are Name, Mobile No, Designation, qualification, Gender, Email ID and it performs operations like session allotment(), update attendance(), report generation(), sending reports to admin().
- Students can be added by admin and attributes for students are Student Name and USN and parent class contains attributes like Mobile No which does only one operation of receiving SMS from admin.



**FIG 3.4 CONCEPTUAL LEVEL**

Conceptual level shows the modules present in the FIS are and how they communicate with each other.



**Fig 3.5 Level 0**

At the level 0 the detail internal operation between the database and modules where it defines a module interaction with other modules and databases.

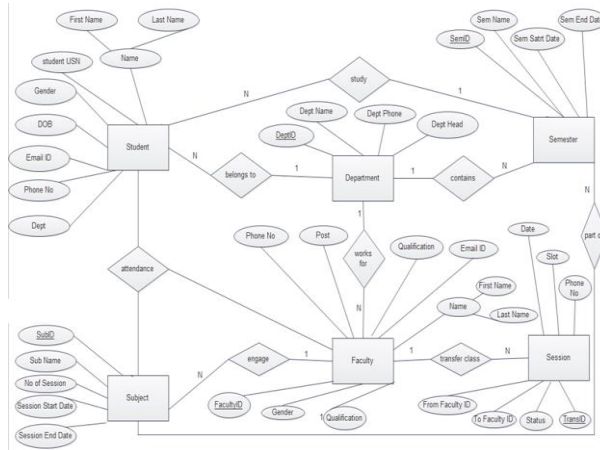


Fig 3.6 E-R Diagram

E-R diagram represents the relationship between the entities and how data is related to each other with existing correlation.

IV. SNAPSHOTS

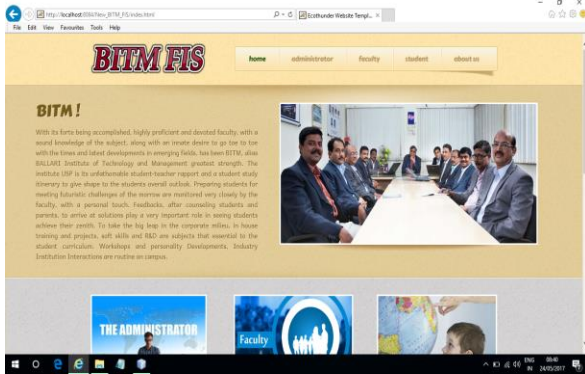


Fig 4.1 Home Page

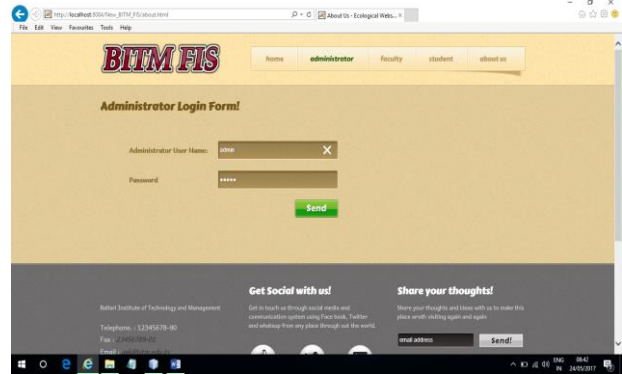


Fig 4.1 Admin, Faculty, and Student Login

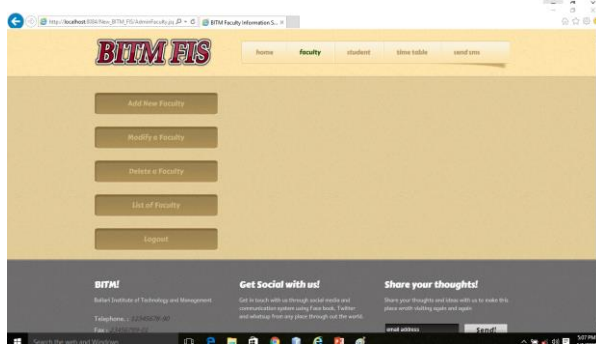


Fig 4.2 Add/Delete/Modify Faculty and Student

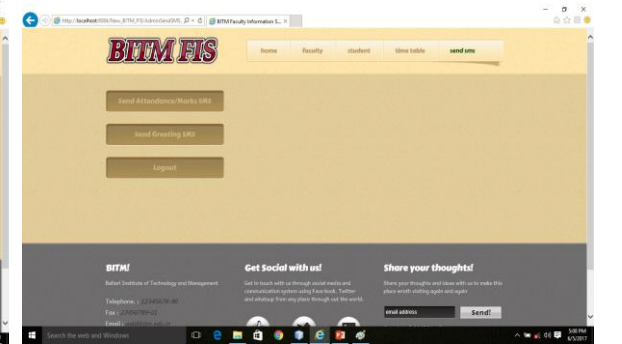


Fig 4.3 Sending SMS to Parents

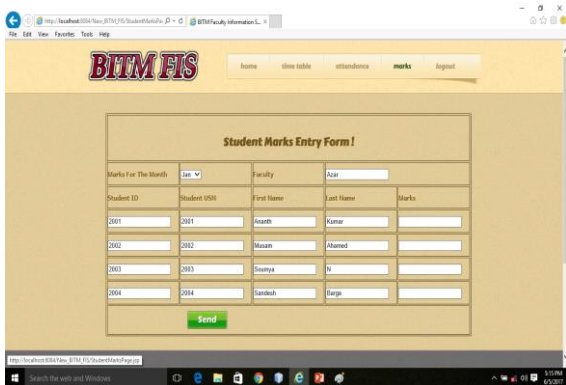


Fig 4.4 Entering Marks and attendance by Faculty

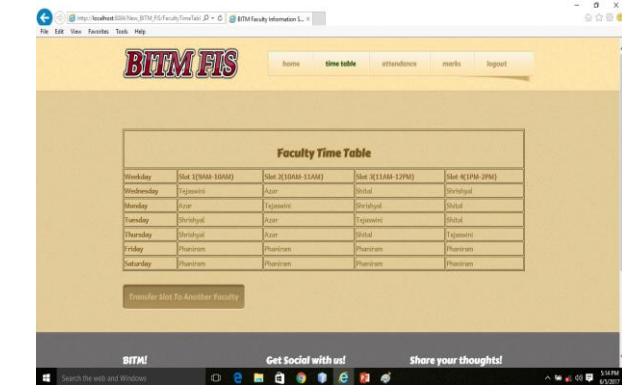
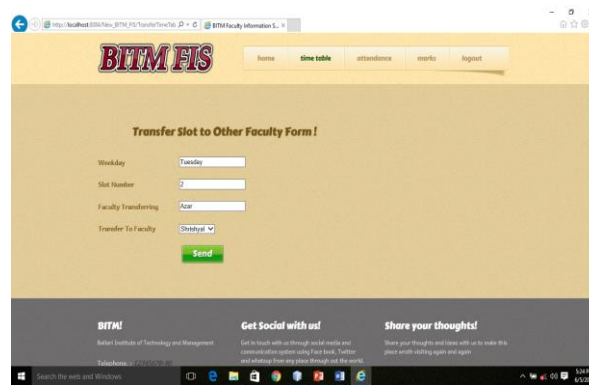


Fig 4.5 Faculty Timetable



**Fig 4.6 Faculty Slot Transfer**

### **CONCLUSIONS**

The project “Faculty Information System” is designed in order to reduce the burden of maintaining the bulk records of all the student details. Managing the time table by the faculty is flexible. Automatic generation of the reports, Updating of Attendance and IA marks are quick and easy, reducing the paperwork, sending SMS about the student activities.

### **ACKNOWLEDGMENT**

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