**Database Term Project**

**Document**

**For**

**Learning Management System**

**Prepared by**

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* **2016-CS-105(Ayesha Atif)**

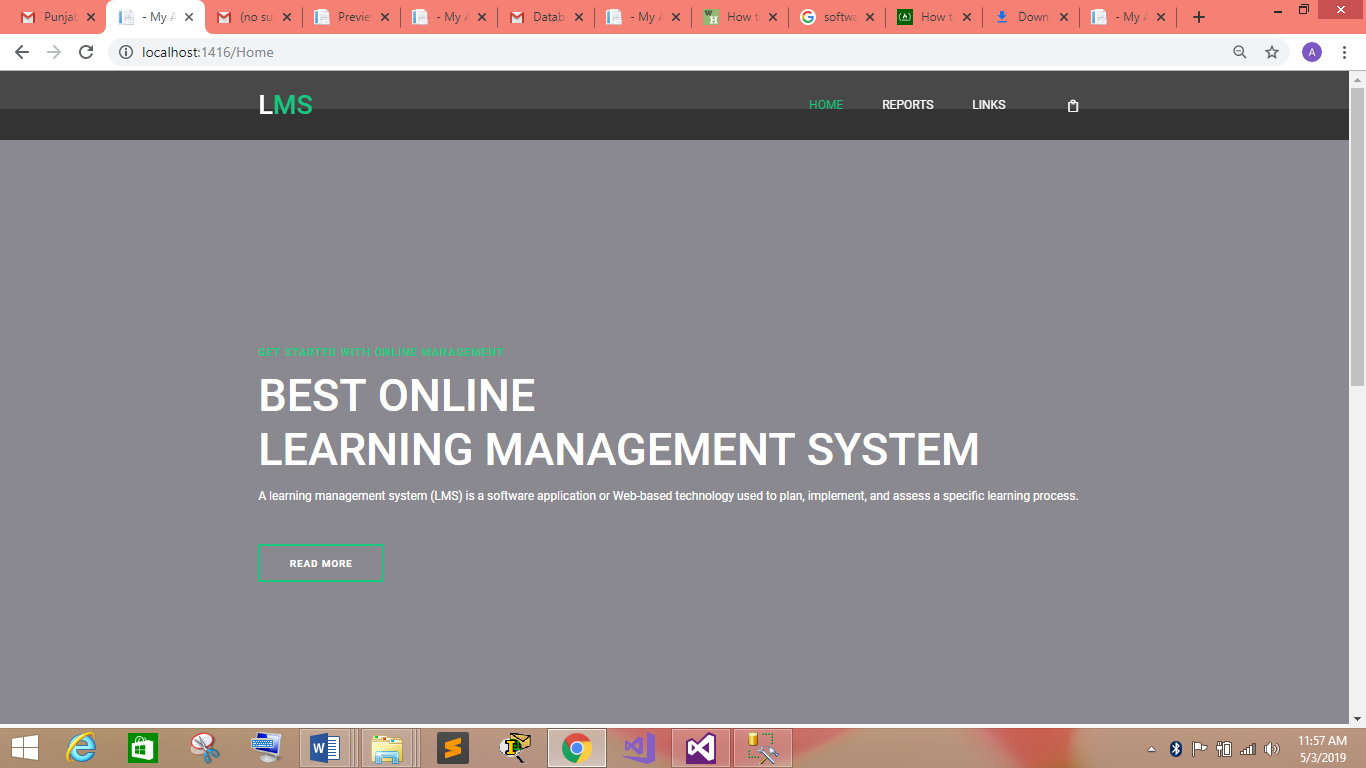
**Instructor: Sir Samyan Wahla**

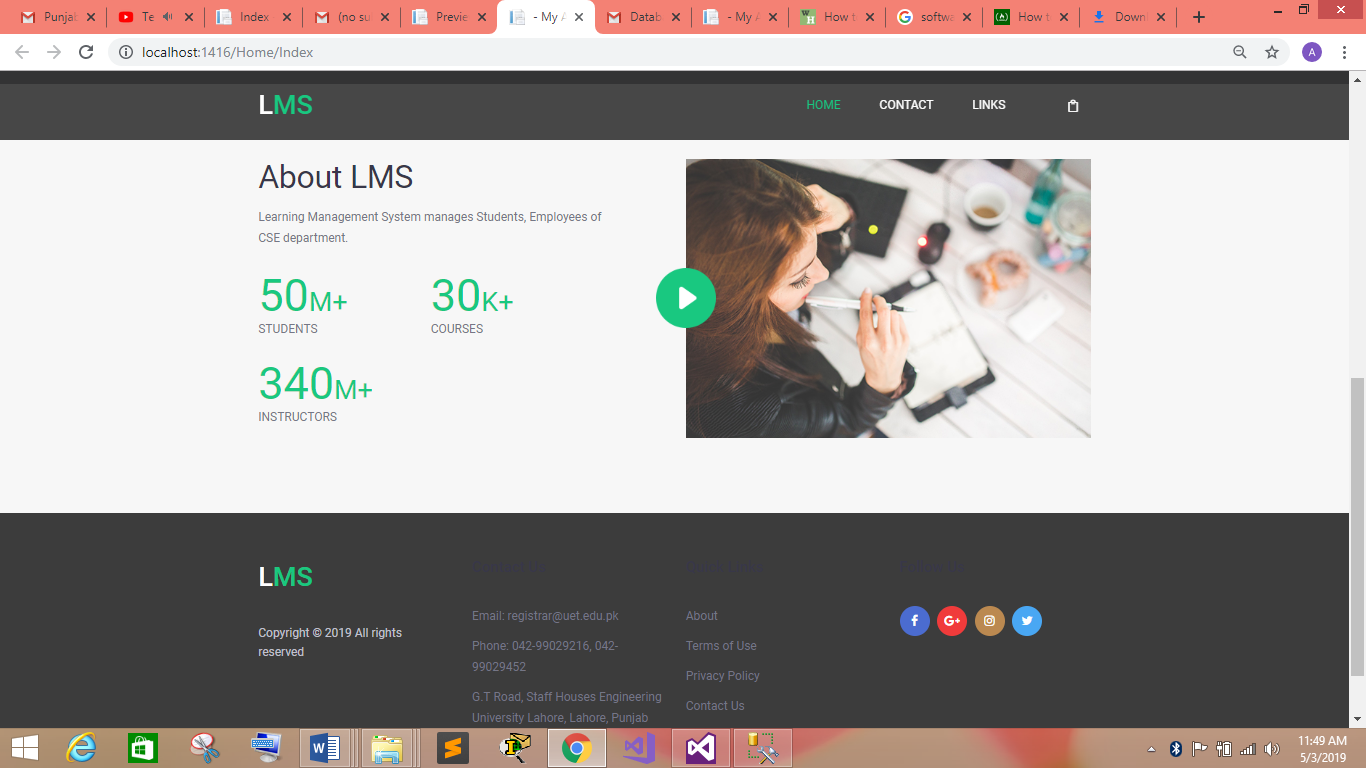
**Course: Database Management System**

**Date: 1/05/19**

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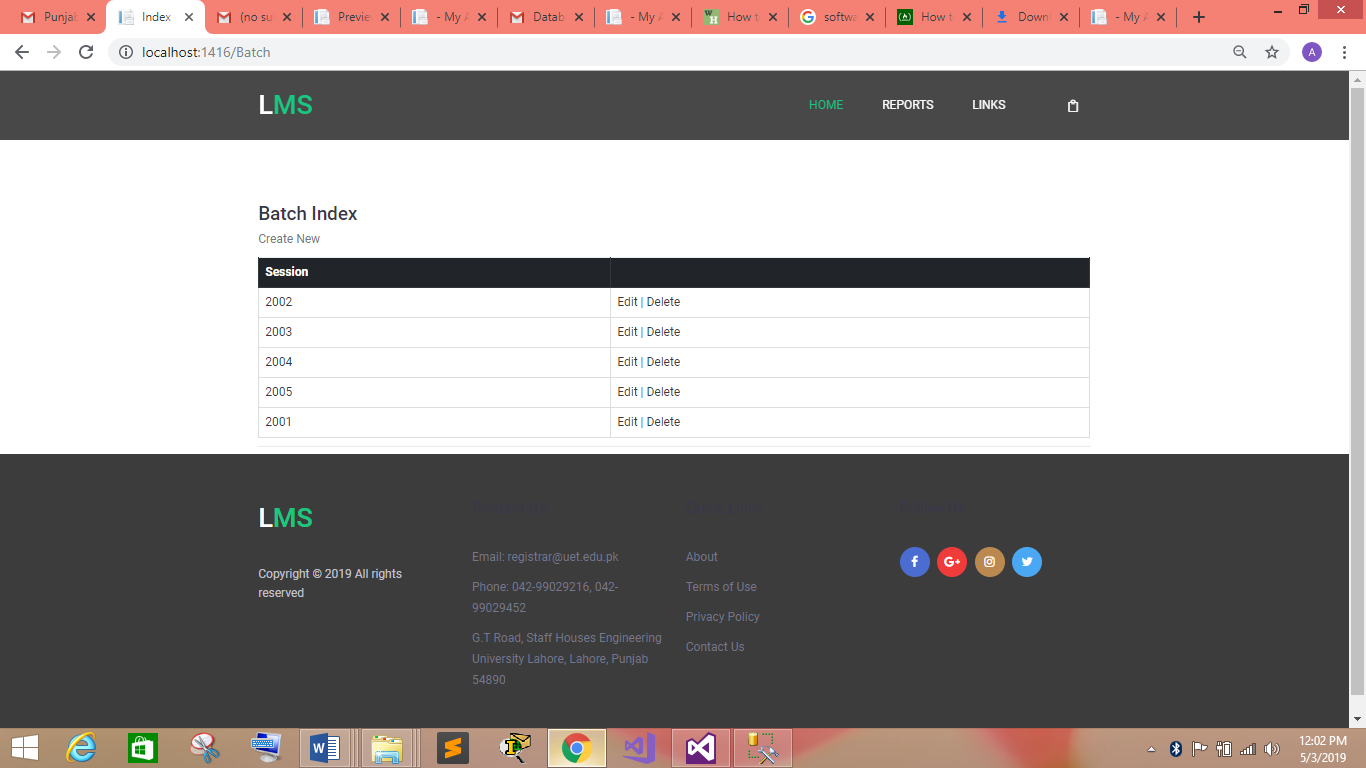
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5. PROJECT FLOW DIAGRAMS:
   1. Main Page:





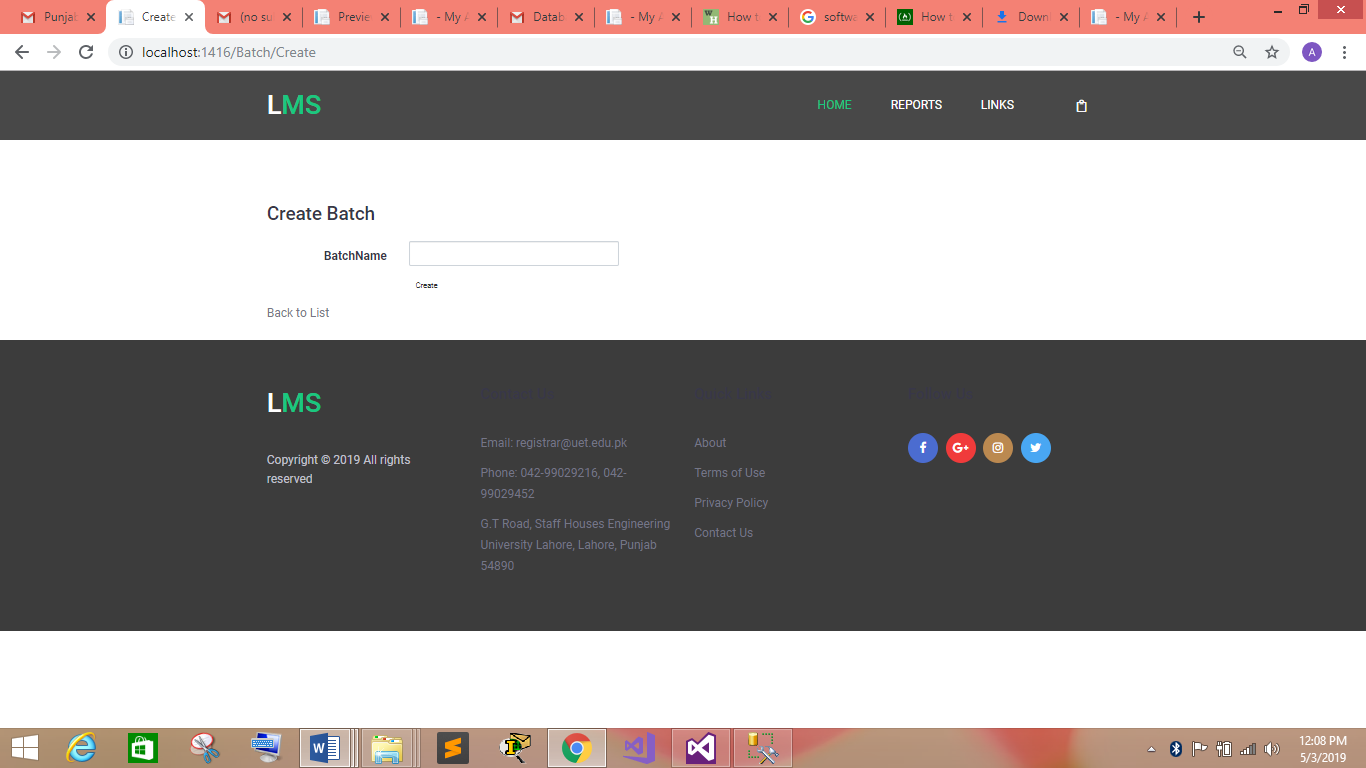
Description:

* Above figures are of main pages from where admin can navigate on different pages.
* Admin can navigate to different pages thorough the link “LINKS” at the header.
* Moreover, reports can be seen on clicking the link of the reports.
  1. Batches List



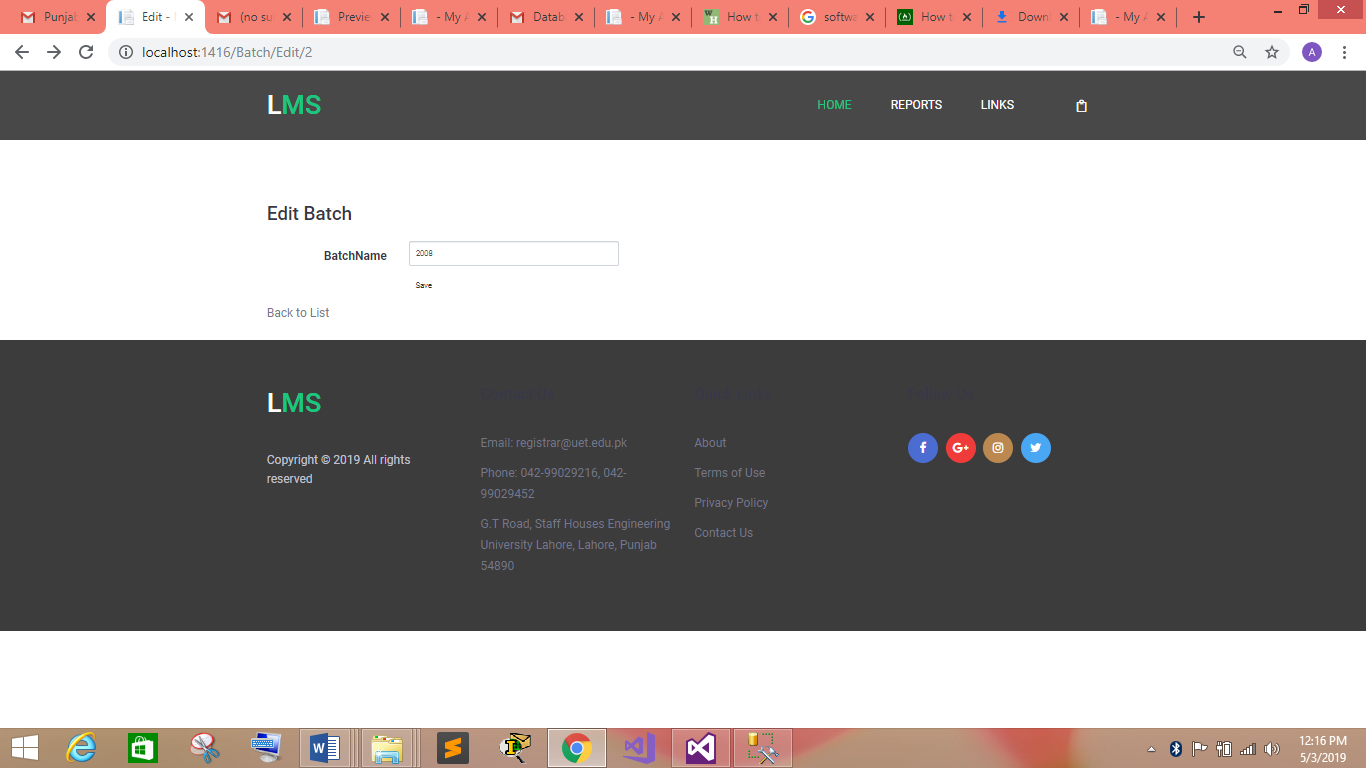
Description:

* Above figures is of Batches list.
* After Clicking on the LINKS and then Batches in the dropdown list admin can access this page.
* Database table “Batch” is used here to show the list of batches.
  1. Create Batch



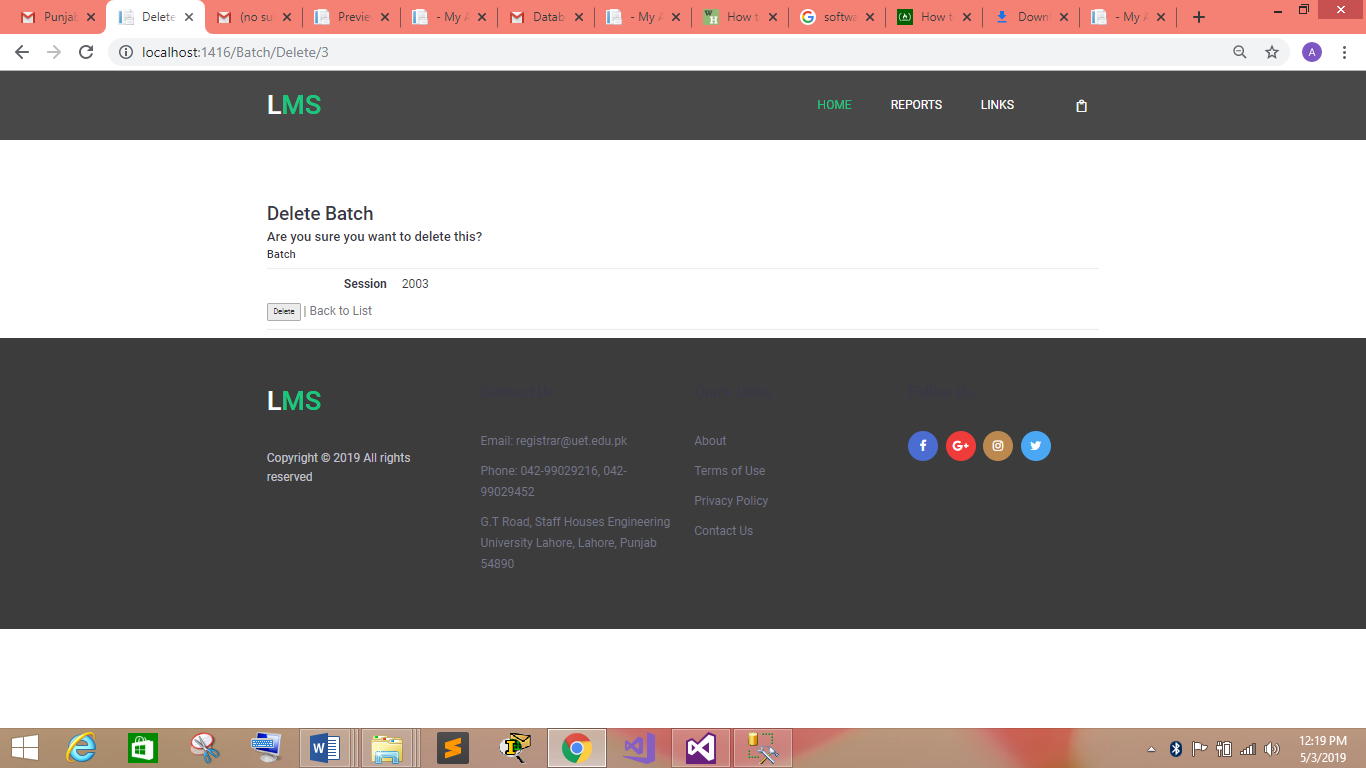
Description:

* Above figures is of create batch/Add batch in the database.
* After clicking on create new link on the Batch index page admin can navigate to this page.
* Database table “Batch” and “Semester” are used here to add the batch and semesters of each batch (which are auto generated) in the database.
  1. Update Batch



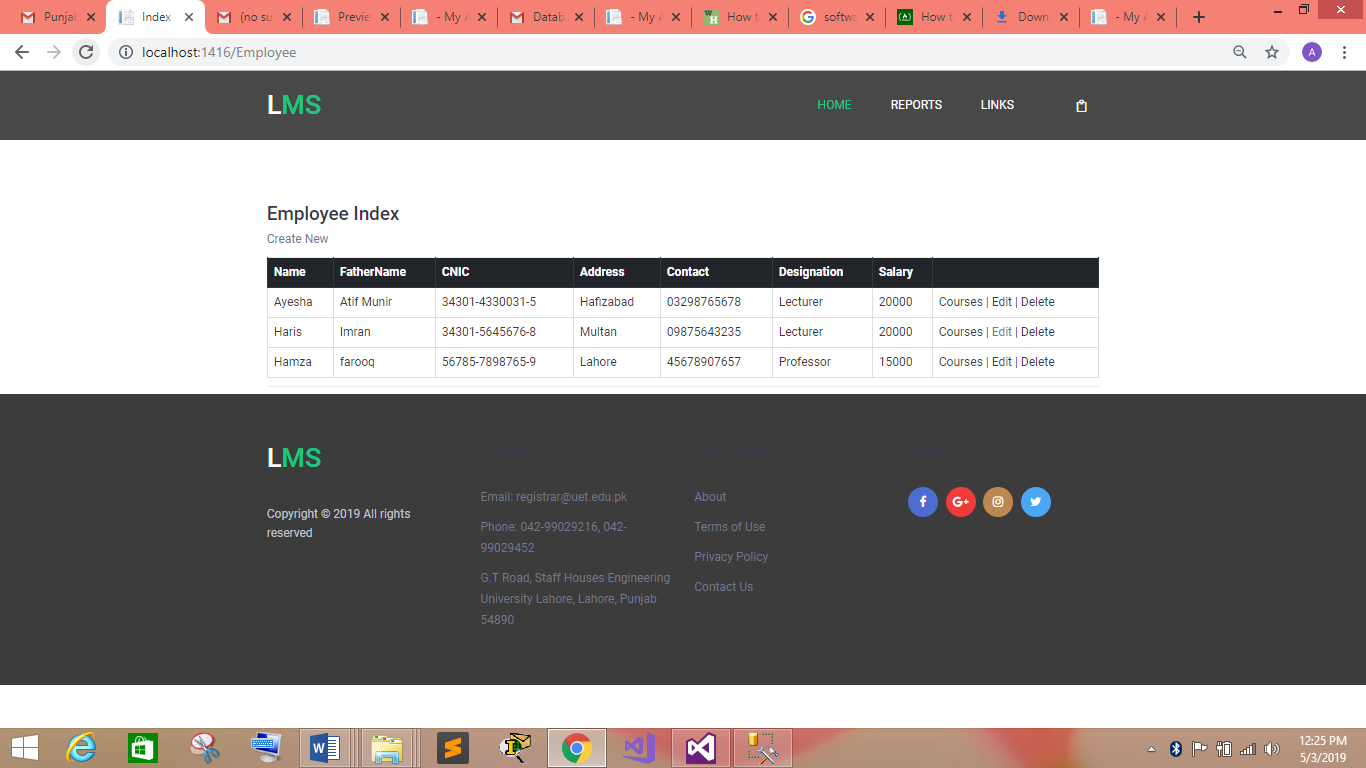
Description:

* Above figures is of update batch in the database.
* After clicking on Edit link on the Batch index page admin can navigate to this page.
* Database table “Batch” is used here to update the batch.
  1. Delete Batch



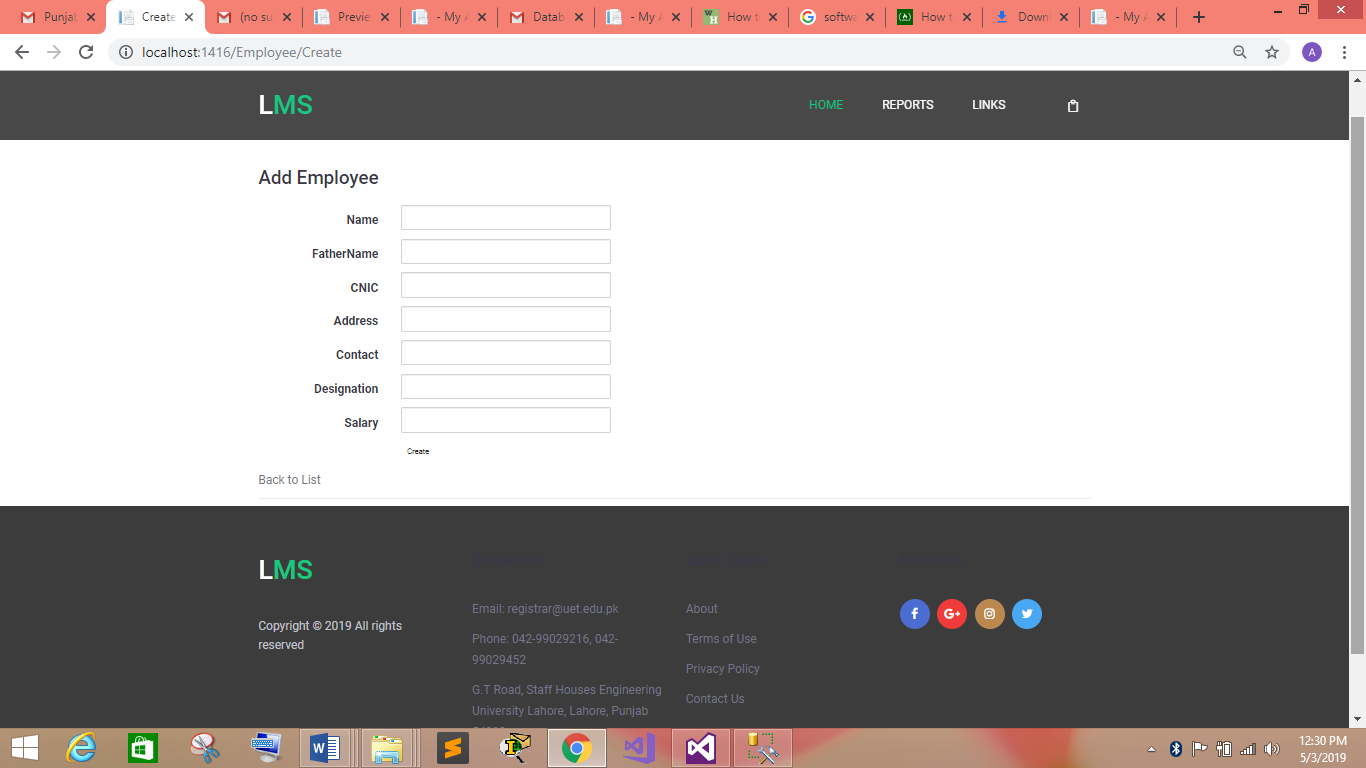
Description:

* Above figure is of Delete batch from the database.
* After clicking on Delete link on the Batch index page admin can navigate to this page.
* Database table “Batch” is used here to delete the batch.
  1. Employee List:



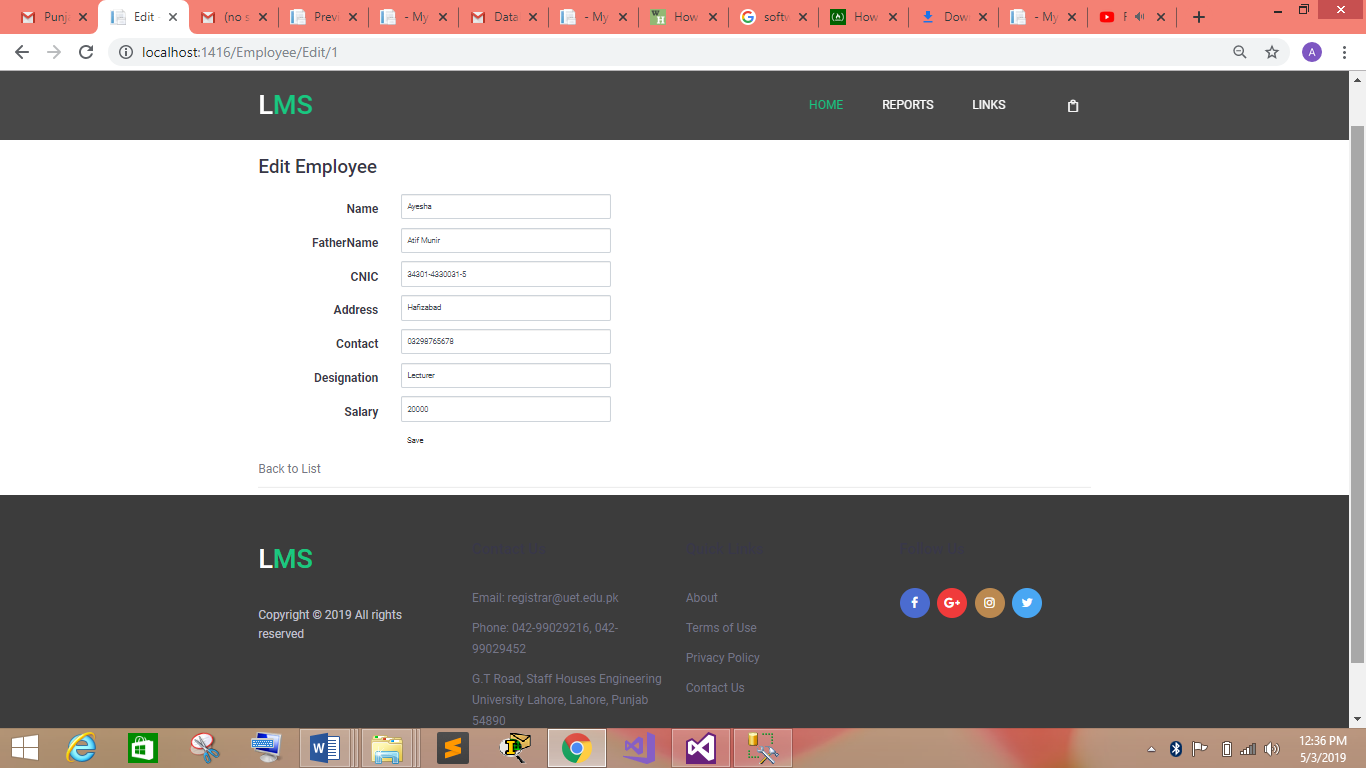
Description:

* Above figure is of Employee list.
* After clicking on the LINKS and then Employee in the dropdown list at the main page header admin can access this page.
* Database tables “Employee” and “Person” are used here to show the list of all employees.
  1. Create Employee



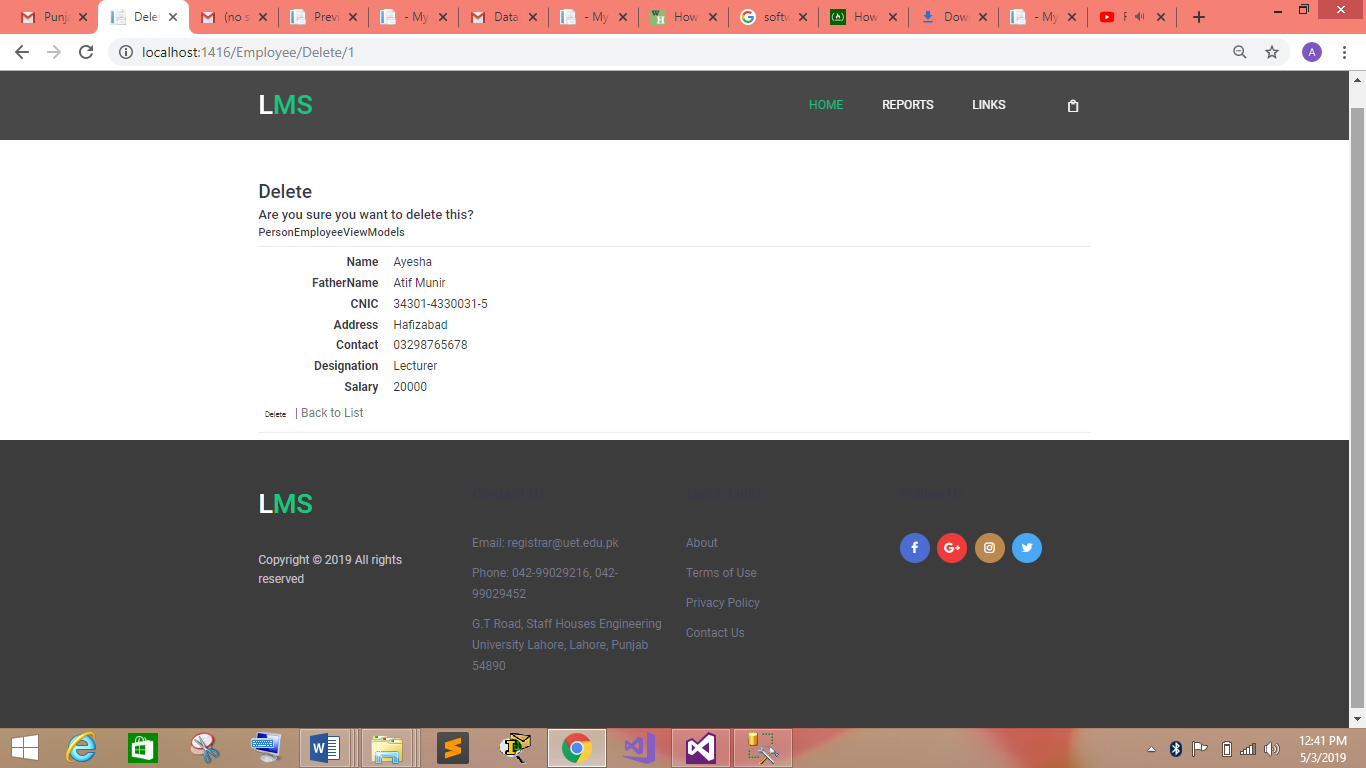
Description:

* Above figure is of create Employee/Add Employee in the database.
* After clicking on create new link on the Batch index page admin can navigate to this page.
* Database table “Employee” and “Person” are used here to add the employee details in the database.
  1. Update Employee



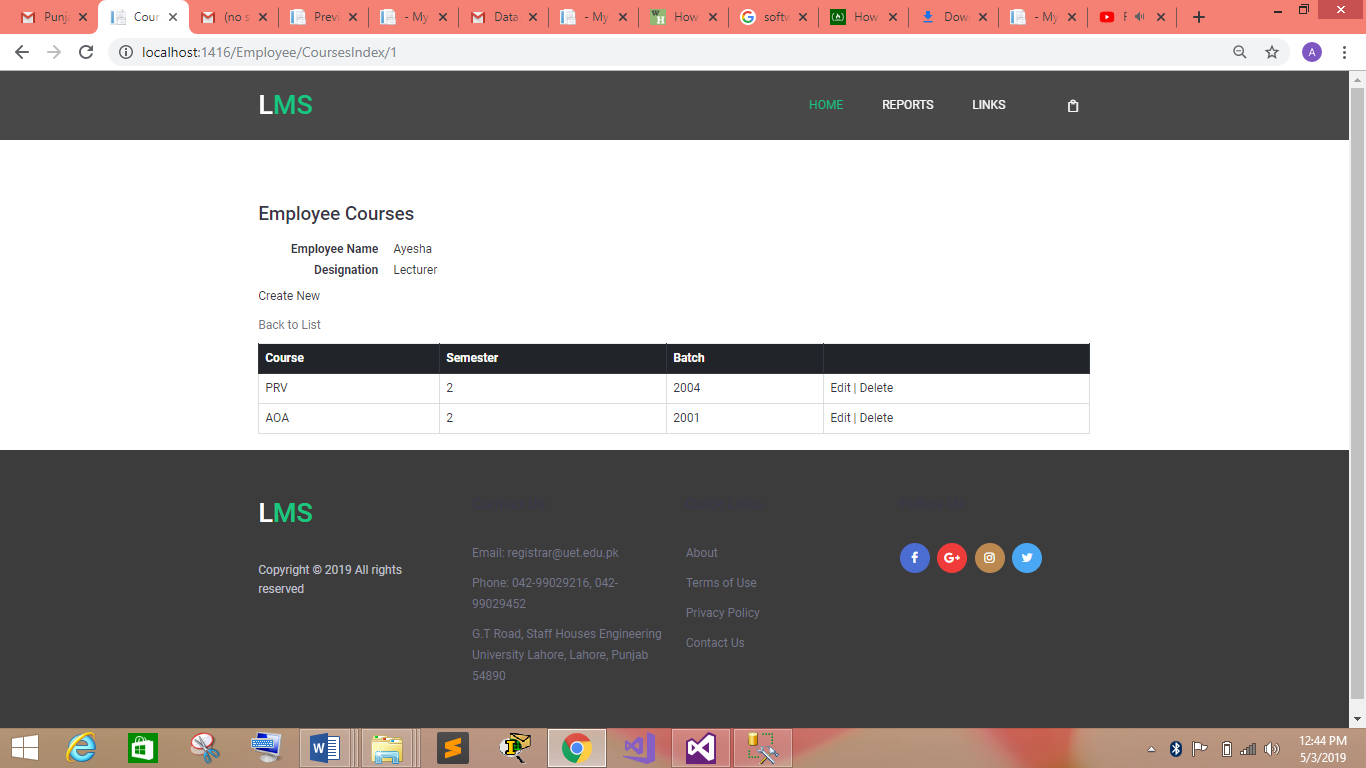
Description:

* Above figure is of update employee in the database.
* After clicking on Edit link on the employee index page admin can navigate to this page.
* Database table “Employee” and “Person” are used here to update the employee.
  1. Delete Employee



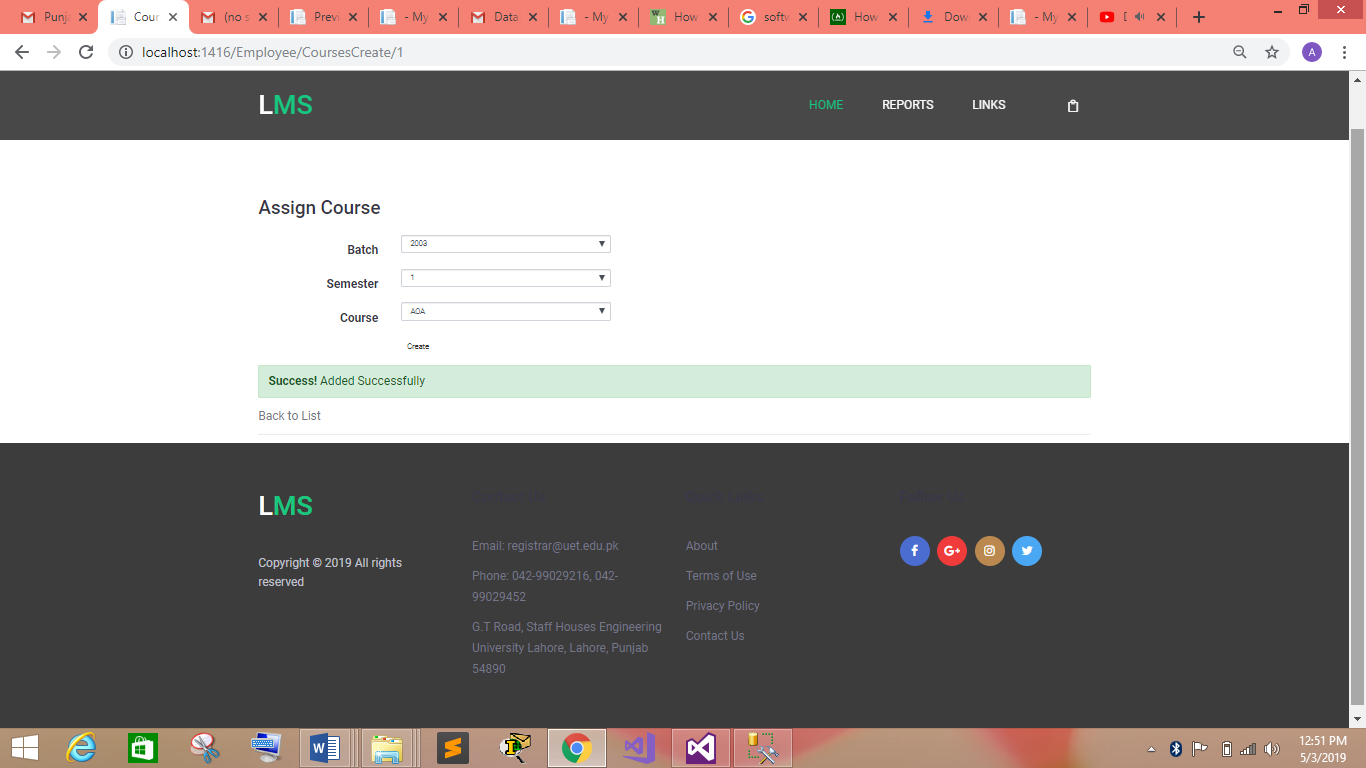
Description:

* Above figure is of Delete Employee from the database.
* After clicking on Delete link on the Employee index page admin can navigate to this page.
* Database tables “Employee” and “Person” are used here to delete the batch.
  1. Assigned Courses List



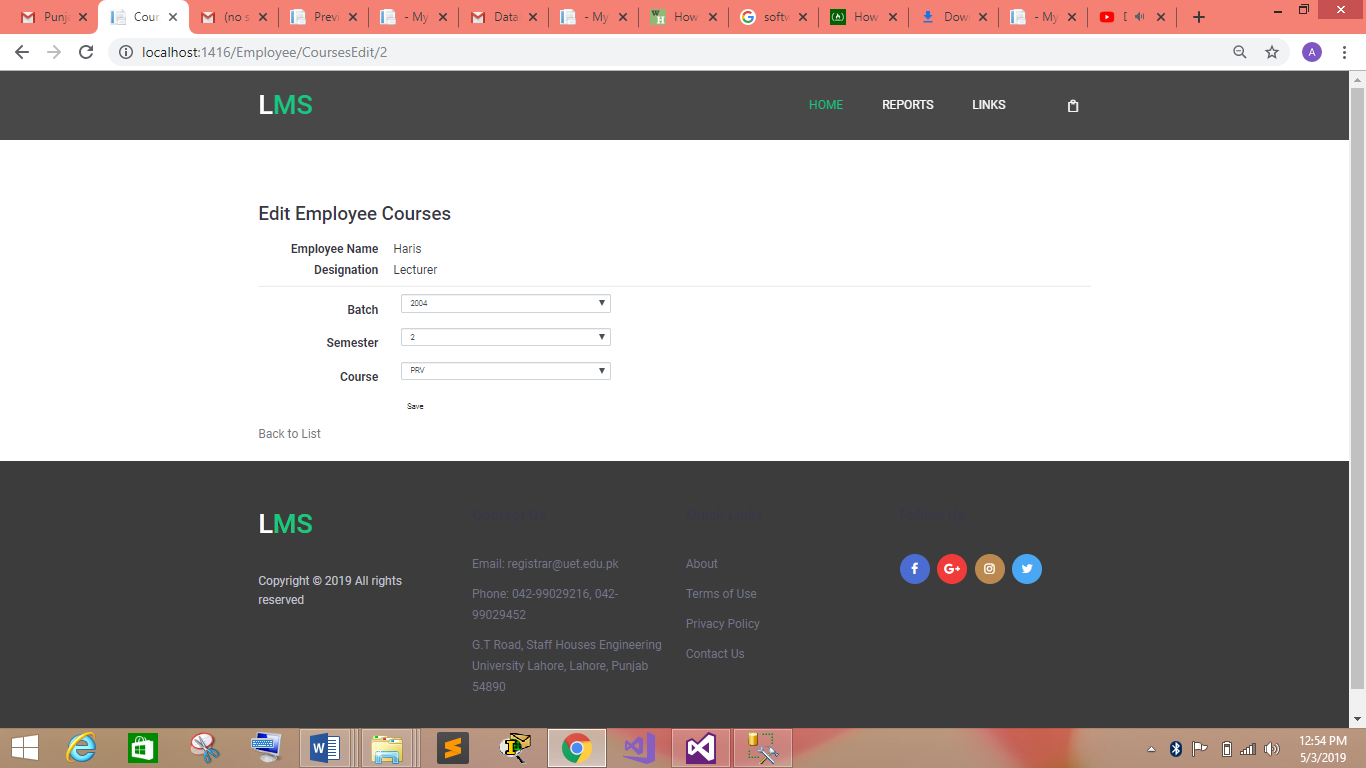
Description:

* Above figure is of list of courses assigned to the employee.
* After clicking on the courses in the employee index page admin can access this page.
* Database tables “Employee”, “Course”, “Batch”, “Semester” and “Person” are used here to show the list of assigned courses to the employee.
  1. Assign Courses



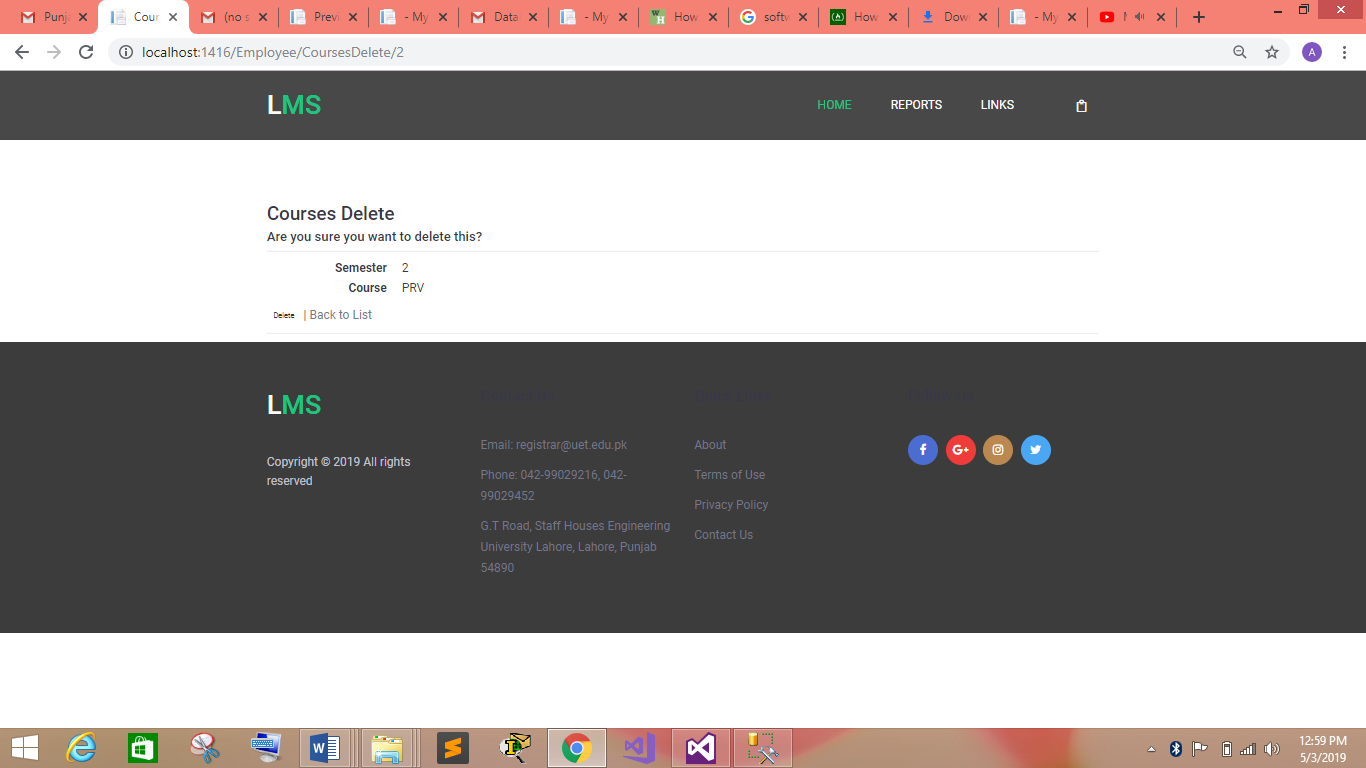
Description:

* Above figure is to assign course to the employee.
* After clicking on the create new in the Employee Courses index page admin can access this page.
* Database tables “Employee”, “Course”, “Batch”, “Semester” and “Person” are used here to show the list of assigned courses to the employee.
  1. Update Assigned Courses



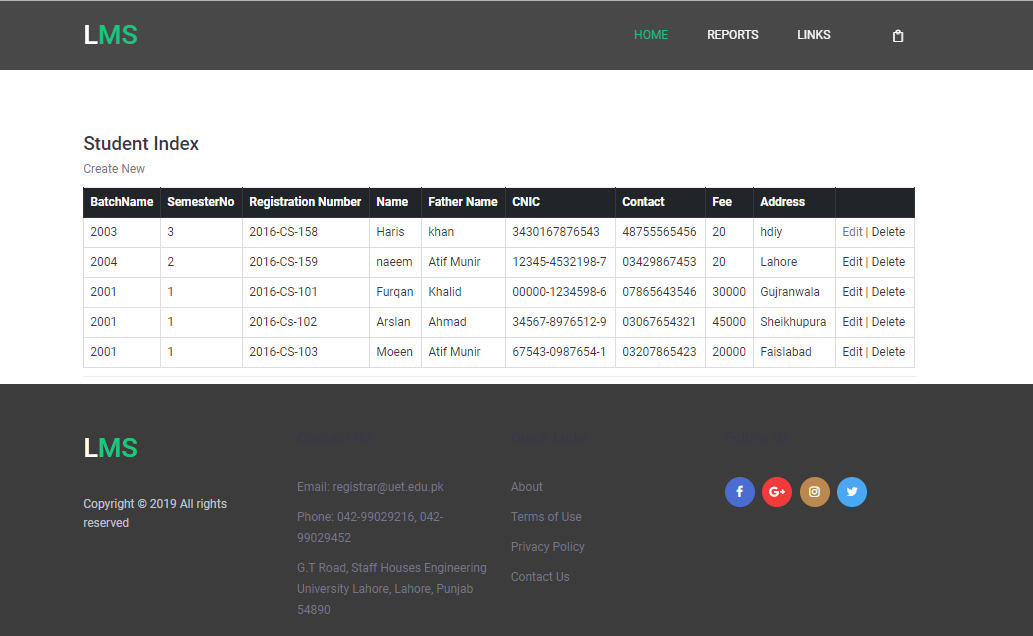
Description:

* Above figure is to update assigned course to the employee.
* After clicking on the Edit in the Employee Courses index page admin can access this page.
* Database table “EmployeeCourseSemester\_MTM” is used here to show the list of assigned courses to the employee.
  1. Delete Assigned Courses



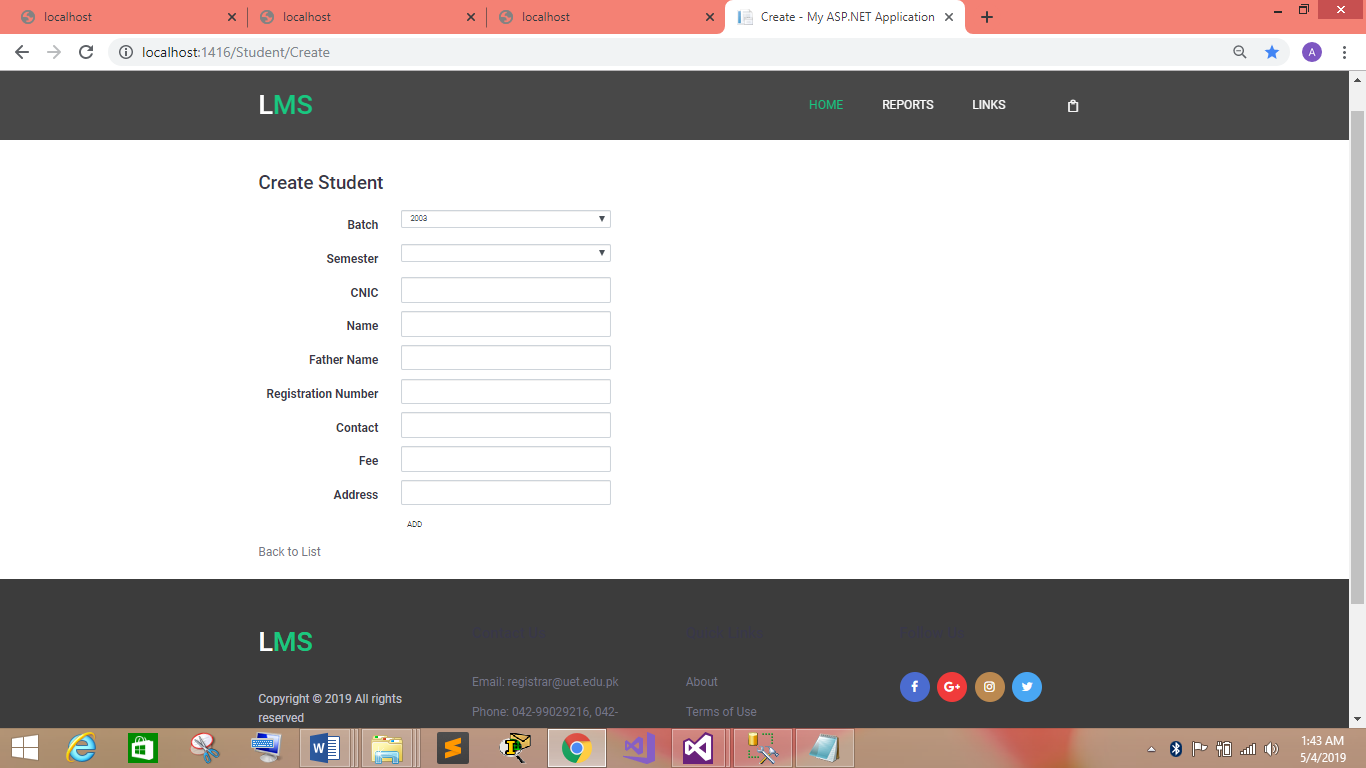
Description:

* Above figure is to delete assigned course to the employee.
* After clicking on the Delete in the Employee Courses index page admin can access this page.
* Database table “EmployeeCourseSemester\_MTM” is used here to delete the list of assigned courses to the employee.
  1. Students List



Description:

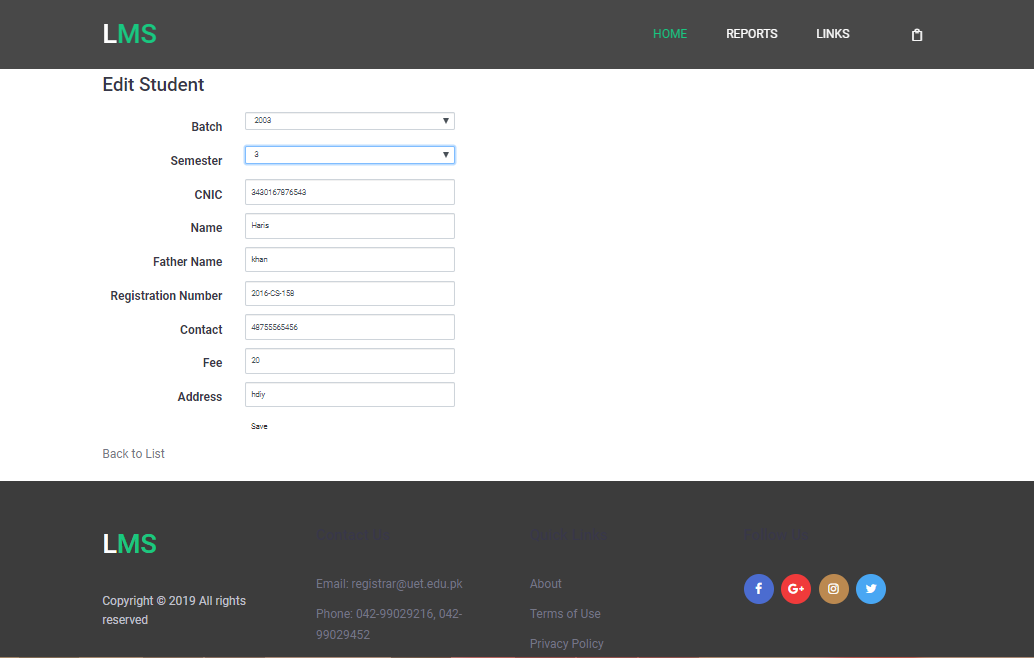
* Above figure is of Student list.
* After clicking on the LINKS and then Students in the dropdown list at the main page header admin can access this page.
* Database tables “Student”, “Batch”, “Semesters” and “Person” are used here to show the list of all employees.
  1. Create Student



Description:

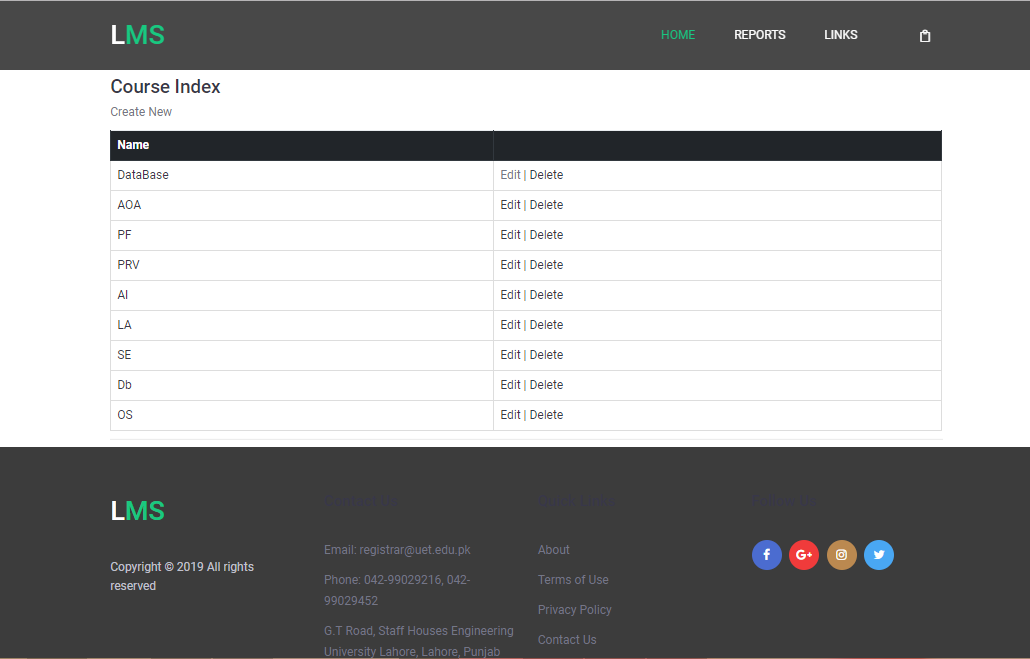
* Above figure is of create Student/Add Student in the database.
* After clicking on create new link on the Student index page admin can navigate to this page.
* Database table “Student”, “Batch”, “Semesters” and “Person” are used here to add the employee details in the database.

* 1. Edit Student



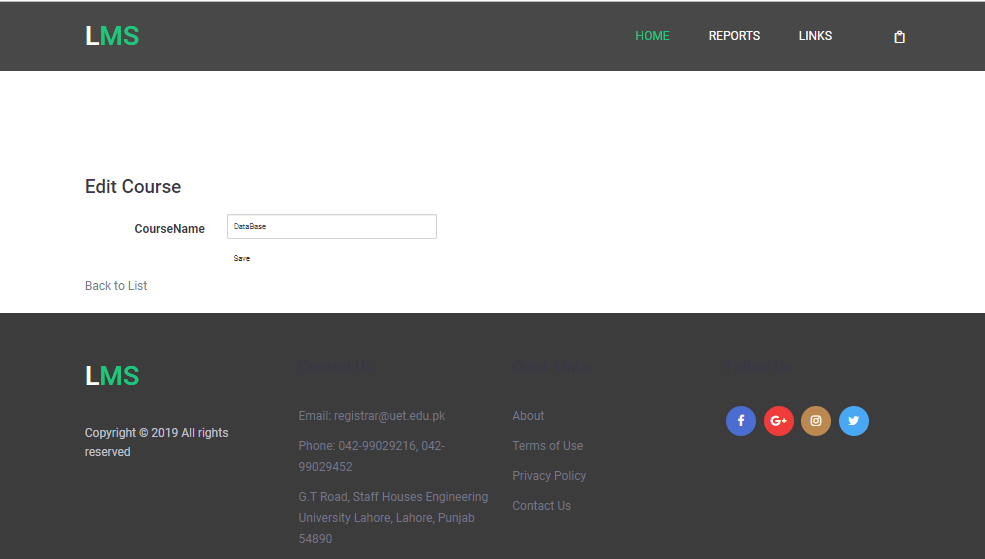
Description:

* Above figure is of update Student in the database.
* After clicking on Edit link on the Student index page admin can navigate to this page.
* Database table “Student” and “Person” are used here to update the employee.
  1. Courses Index



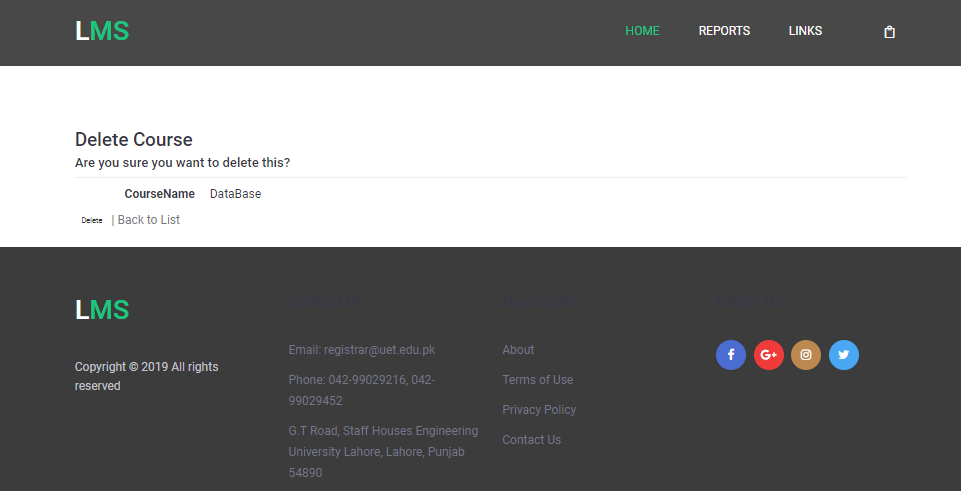
Description:

* Above figure is list of courses.
* After clicking on the LINKS and then Course in the dropdown list at the main page header admin can access this page.
* Database table “Course” is used here to show the list of all employees.
  1. Update Course



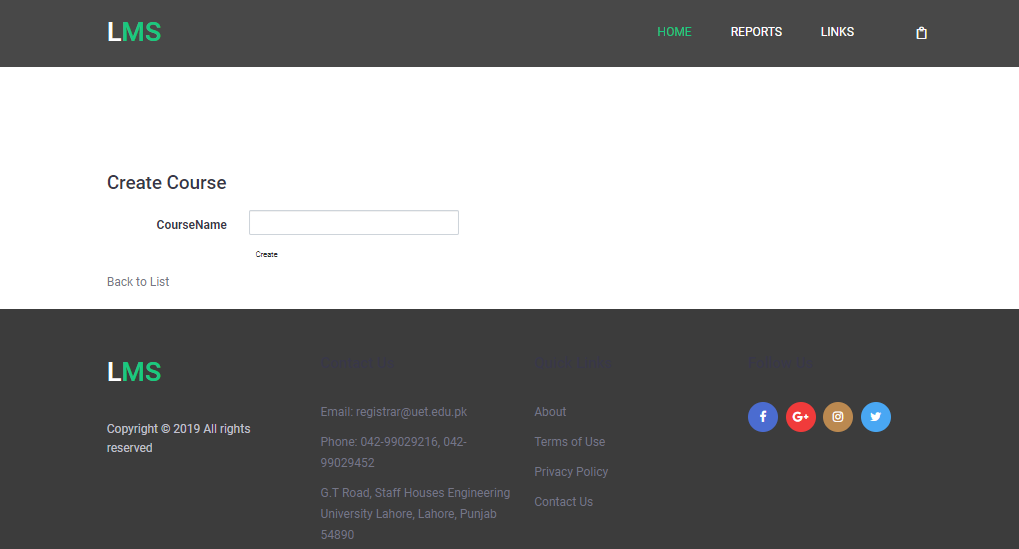
Description:

* Above figure is of update course in the database.
* After clicking on Edit link on the course index page admin can navigate to this page.
* Database table “Course” are used here to update the employee.
  1. Delete Course



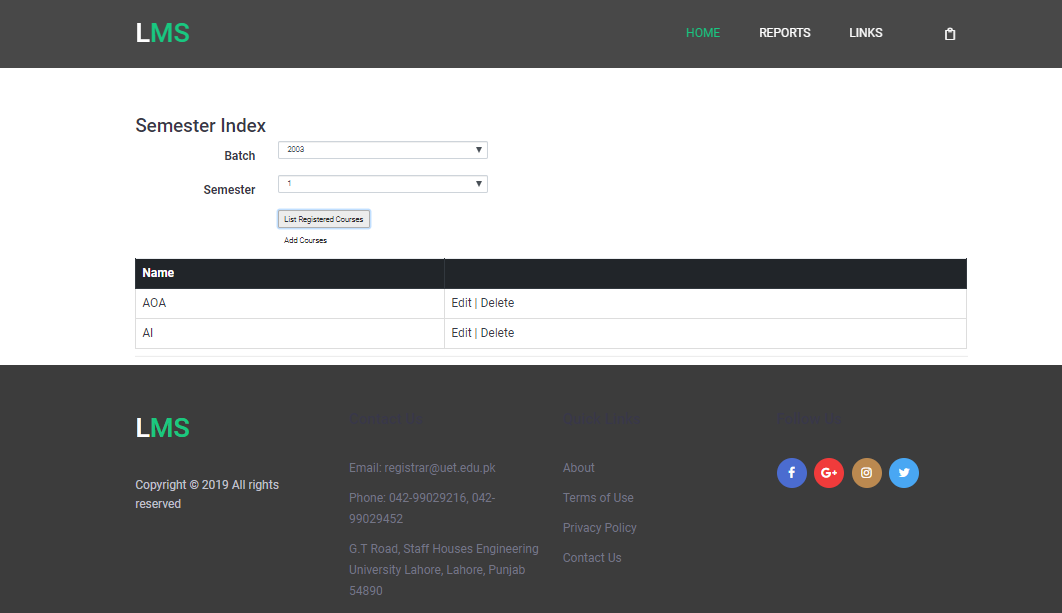
Description:

* Above figure is to delete course from the database.
* After clicking on the Delete in the Courses index page admin can access this page.
* Database table “Course” is used here to delete the list of courses.
  1. Create Course



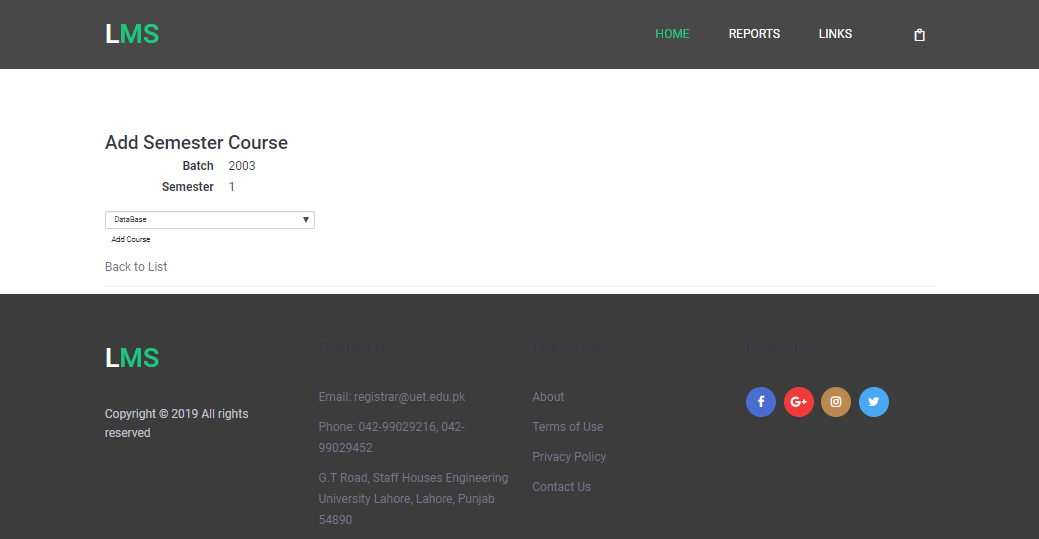
Description:

* Above figure is of create Course/Add Course in the database.
* After clicking on create new link on the course index page admin can navigate to this page.
* Database table “Course” is used here to add the Course details in the database.
  1. Semester Courses List



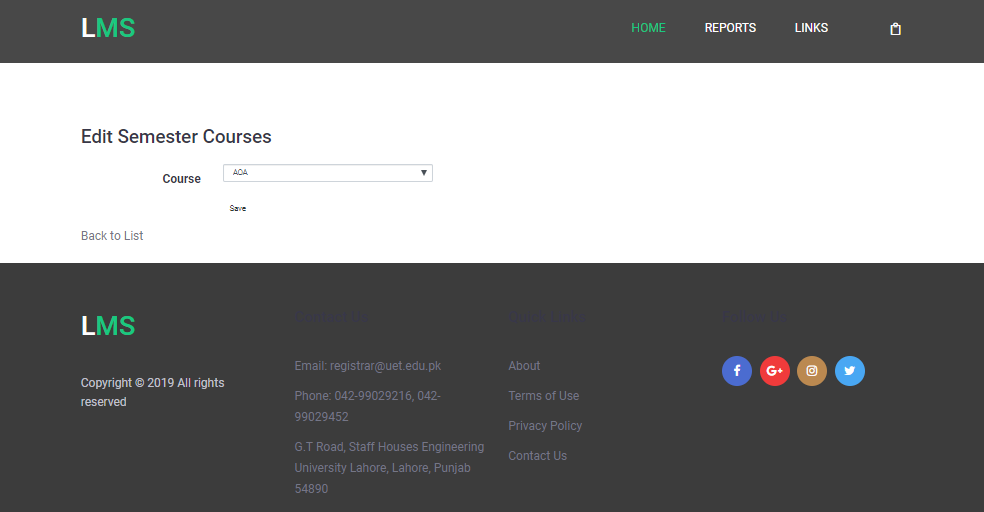
Description:

* Above figure is list of courses assigned to a semester.
* After clicking on the LINKS and then Semester in the dropdown list at the main page header admin can access this page.
* Database tables “Course”,” Semester” and “CourseSemester\_MTM” are used here to show the list of all courses of a semester.
  1. Add Semester Courses



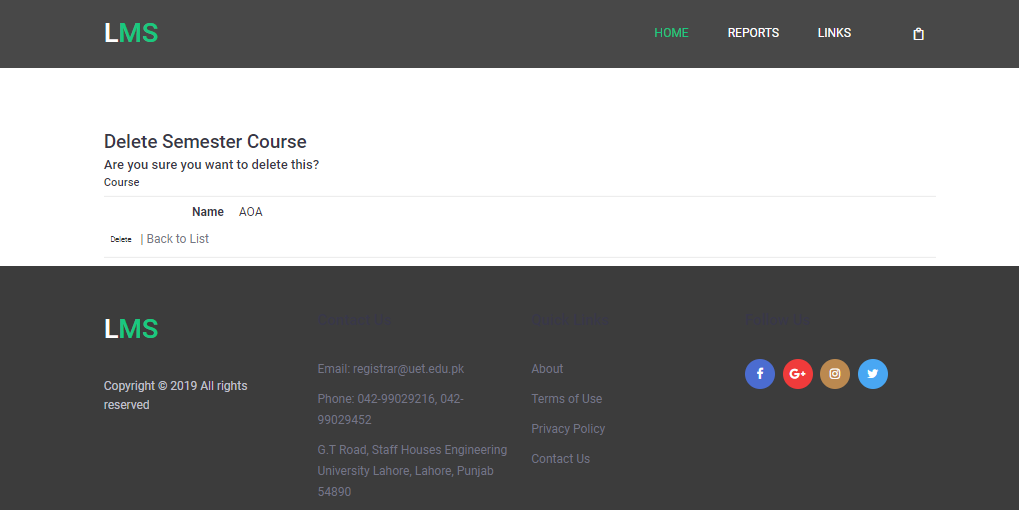
Description:

* Above figure is of Assign Course to a semester .
* After clicking on Add course button on the Semester Course index page admin can navigate to this page.
* Database tables “Course”, “Semester” and “CourseSemester\_MTM” are used here to add the Course details in the database.
  1. Update Semester Courses



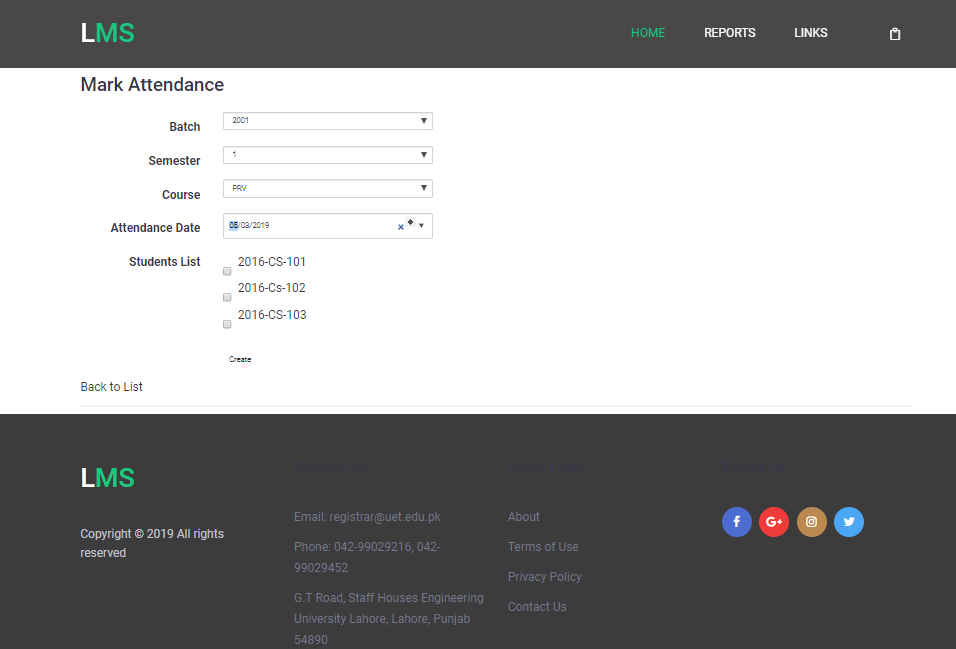
Description:

* Above figure is of update assigned courses of a semester .
* After clicking on edit link on the Semester Course index page admin can navigate to this page.
* Database table “CourseSemester\_MTM” is used here to update the Course details in the database.
  1. Delete Semester Courses



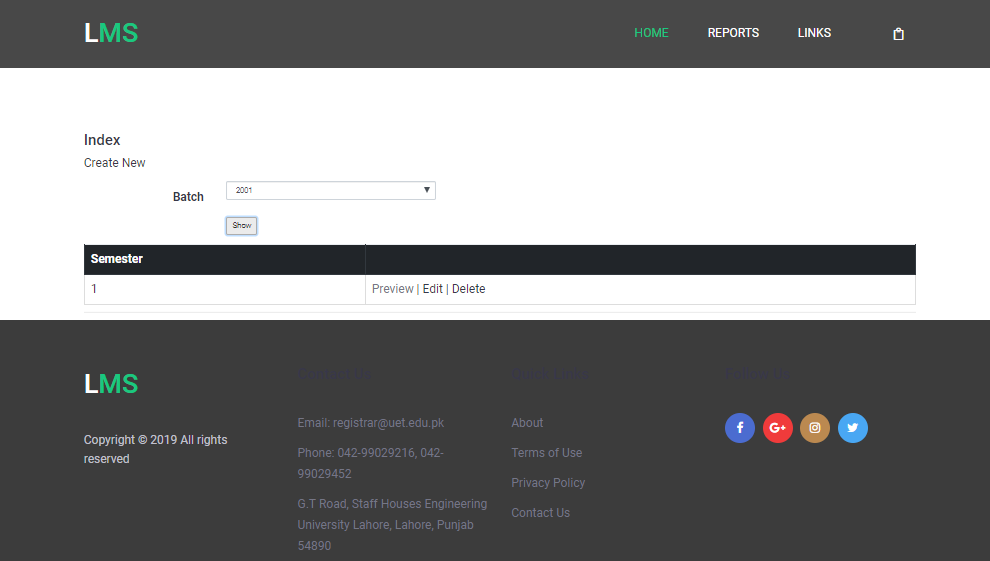
Description:

* Above figure is to delete assigned courses of a semester .
* After clicking on delete link on the Semester Course index page admin can navigate to this page.
* Database table “CourseSemester\_MTM” is used here to delete the Course details in the database.
  1. Mark Attendance



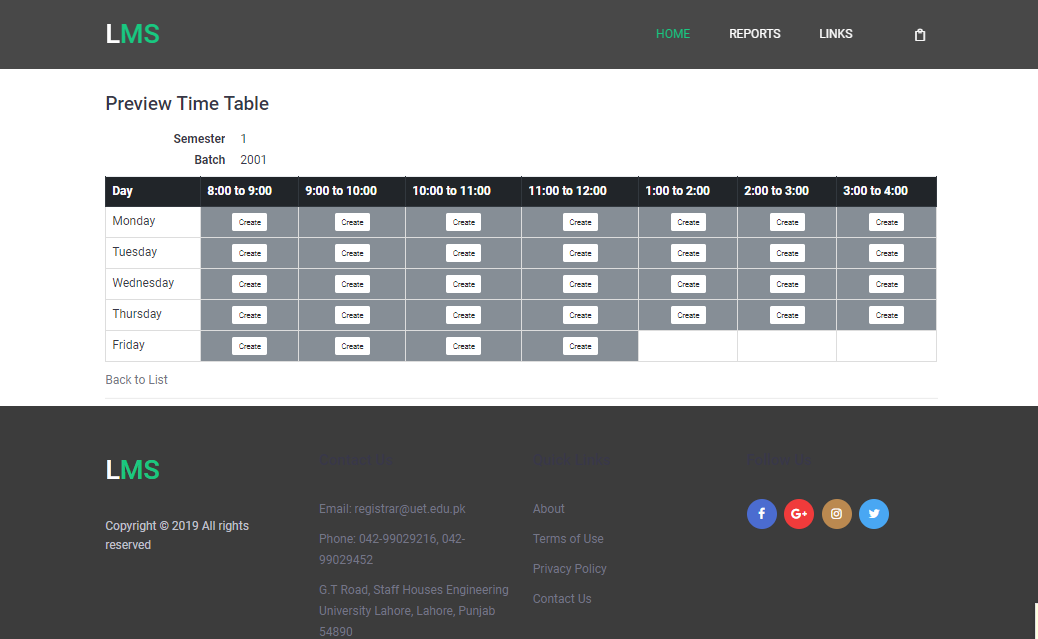
Description:

* Above figure is to mark attendance of students of a course.
* After clicking on the LINKS and then Attendance in the dropdown list at the main page header admin can access this page.
* Database tables “Batch”,” Semester” and “CourseSemester\_MTM”, “Attendance” and “Student” are used here to mark the attendance.
  1. Time Table



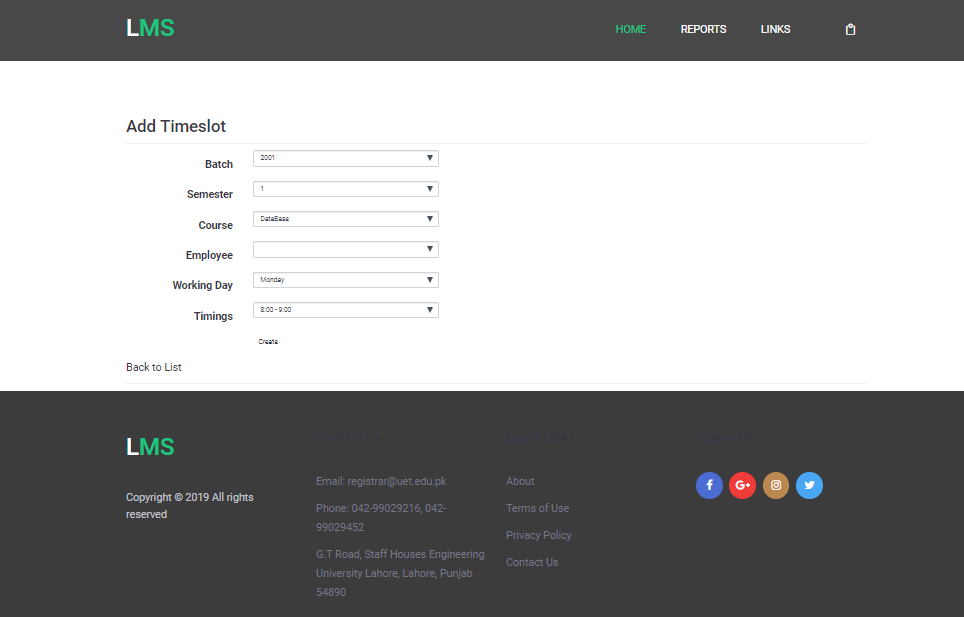
Description:

* Above figure is to select batch and semester of which admin want to preview the time table.
* After clicking on the LINKS and then time table in the dropdown list at the main page header admin can access this page.
* Database tables “Batch”, “TimeTable” and ” Semester” are used here.
  1. Preview Time Table



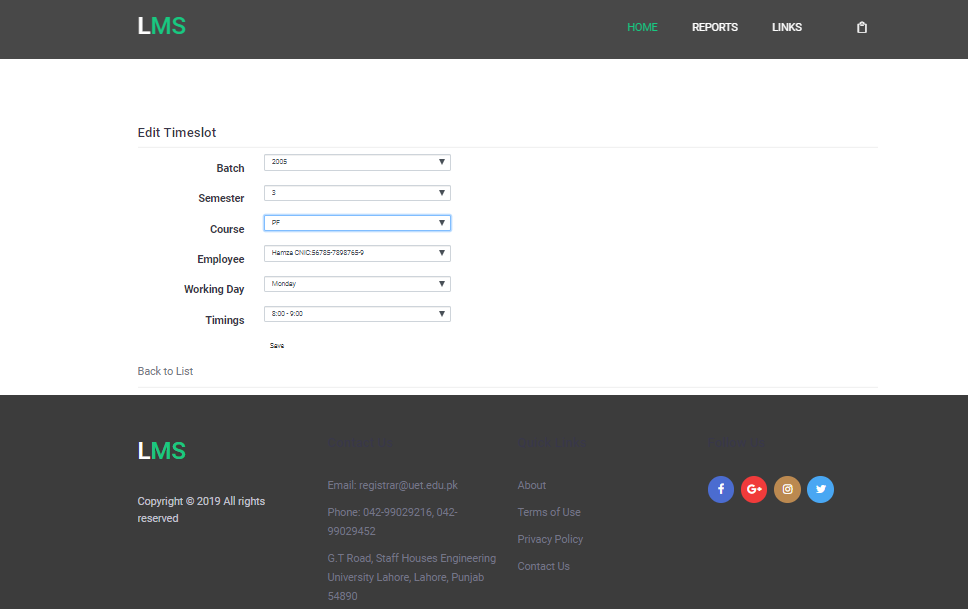
Description:

* Above figure is to preview the time table.
* After clicking on the preview links admin can access this page.
* Database tables “Batch” and ” Semester” are used here.
  1. Add Course In Time Table



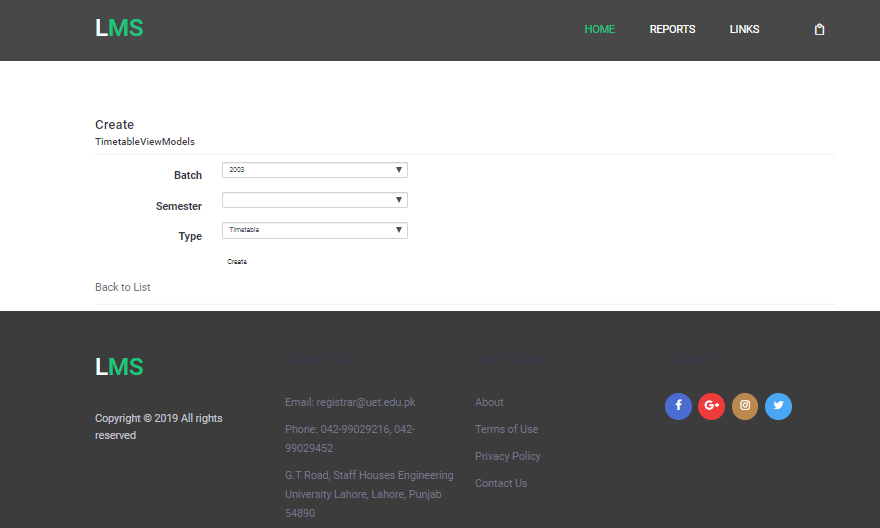
Description:

* Above figure is to add course on particular timeslot in the time table.
* After clicking on the create button in the preview timetable admin can access this page.
* Database tables “Batch” and ” Semester”, “EmployeeCourseSemester\_MTM”, “Person”, “Employee”, “WorkingDays”, “TimetableSlot”, “TimetableTimeslot\_MTM” and “TimeTable” are used here.
  1. Edit Course in Time Table



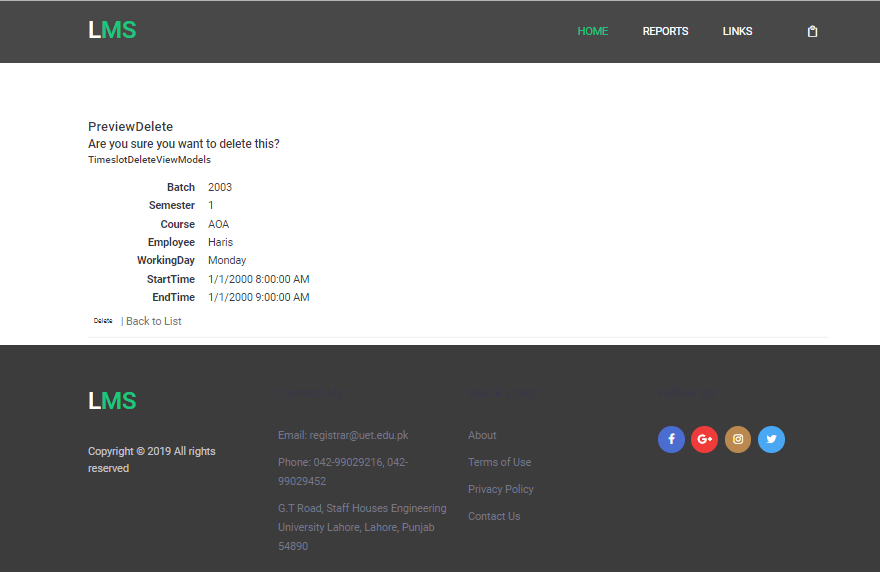
Description:

* Above figure is to Edit course on particular timeslot in the time table.
* After clicking on the edit button in the preview timetable admin can access this page.
* Database tables “Batch” and ” Semester”, “EmployeeCourseSemester\_MTM”, “Person”, “Employee”, “WorkingDays”, “TimetableSlot”, “TimetableTimeslot\_MTM” and “TimeTable” are used here.
  1. Add Time Table



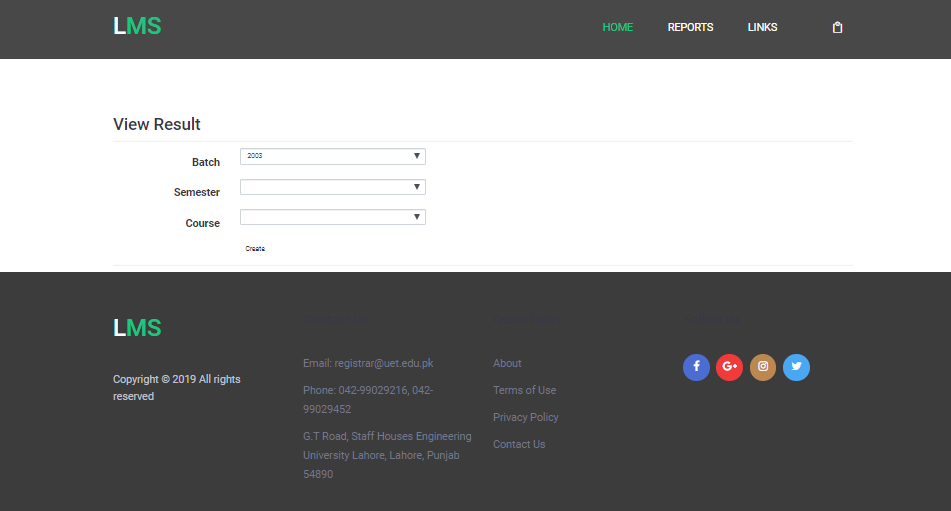
Description:

* Above figure is to select batch and semester of which admin want to preview the time table.
* After clicking on the create new link on the Timetable index page admin can access this page.
* Database tables “Batch”, “TimeTable” and ” Semester” are used here.
  1. Delete Course in Time Table



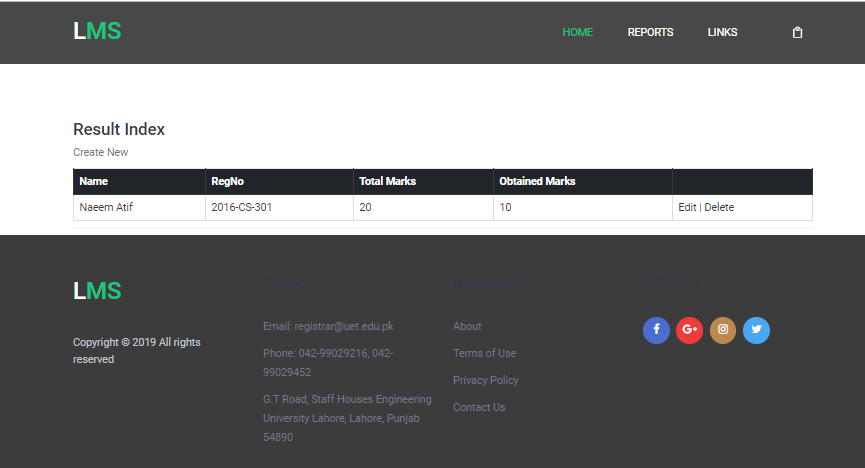
Description:

* Above figure is to delete course from the time table.
* After clicking on the delete link on the preview Timetable admin can access this page.
* Database tables “Batch” and ” Semester”, “EmployeeCourseSemester\_MTM”, “Person”, “Employee”, “WorkingDays”, “TimetableSlot”, “TimetableTimeslot\_MTM” and “TimeTable” are used here.
  1. View Result



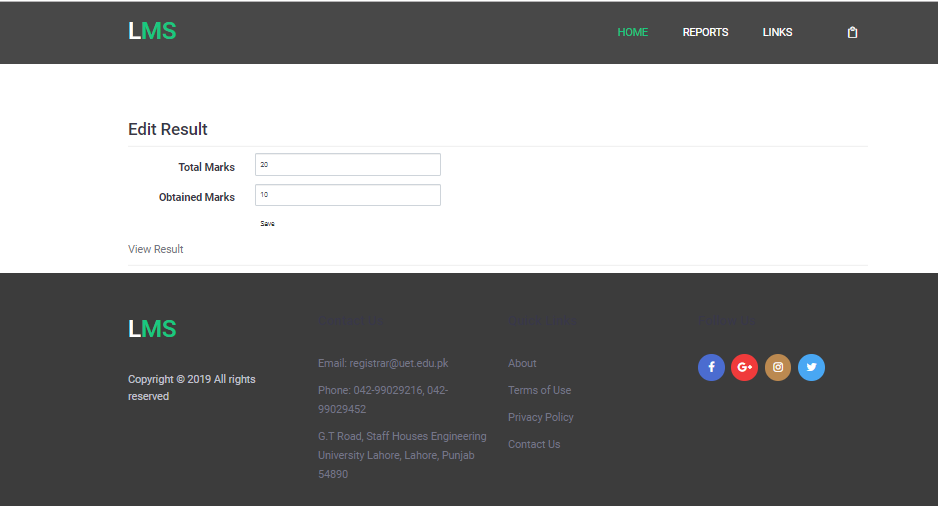
Description:

* Above figure is to view result a course of particular semester
* After clicking on the LINKS and then Result in the dropdown list at the main page header admin can access this page.
  1. Result Index



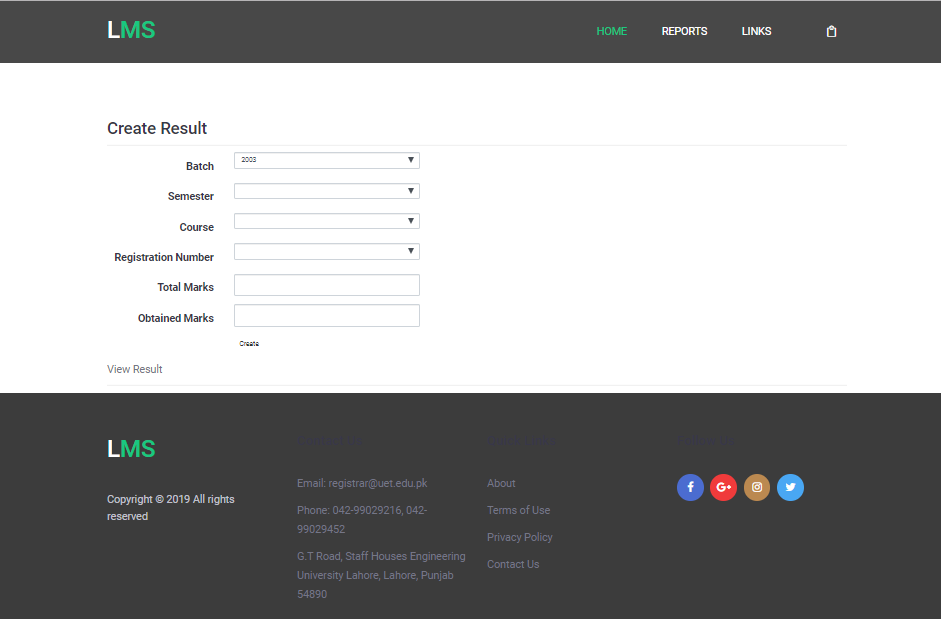
Description:

* Above figure is to view result a course selected in previous view i.e. View Result.
* After clicking on the create at View Result view admin can access this page.
* Database table “CourseSemester\_MTM”, “Person”, “Student” and “Result” tables are used to show list of students along with their marks details.
  1. Update Result



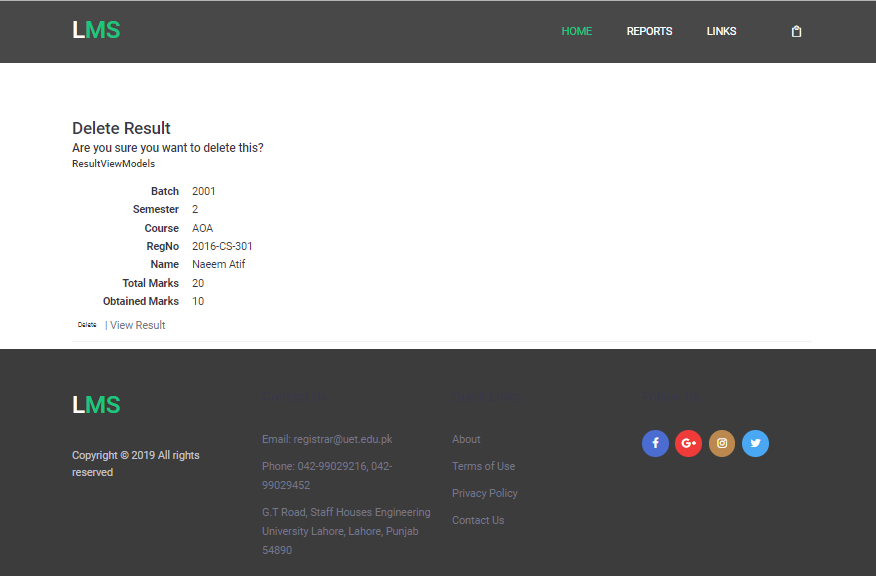
Description:

* Above figure is to update result .
* After clicking on the edit link at Result Index view admin can access this page.
* Database table “Result” is used to update the marks details.
  1. Create Result



Description:

* Above figure is to add result details of student..
* After clicking on the create new link at View Result view admin can access this page.
* Database table “Result” and “CourseSemester\_MTM” is used to Add result details of a student in a particular course.
  1. Delete Result



Description:

* Above figure is to delete result details of student..
* After clicking on the delete link at Result Index view admin can access this page.
* Database table “Result” , “Semester”, “Batch”, “Person” and “CourseSemester\_MTM” is used to delete result details of a student in a particular course.

1. List of actual features:

* Admin can Add, View, edit and delete Batches.
* Admin can Add, view, edit, delete students.
* Admin can Add, view, edit, delete Employee.
* Admin can Add, view, edit, delete courses.
* Admin can assign courses to employees, view courses, edit courses and delete courses.
* Admin can assign courses to semester., view courses, edit courses and delete courses.
* Admin can add, view, edit and delete timetable of each semester of each batch.
* Admin can add, view, edit and delete result of student in each courses of enrolled semester.
* Admin can mark attendance.
* Admin can create, view, edit and delete date sheet.
* Admin can view institution detail i.e. contact number, email, location etc.

1. List of completed features:

Following is the list of completed features.

* Admin can Add, View, edit and delete Batches.
* Admin can Add, view, edit, delete students.
* Admin can Add, view, edit, delete Employee.
* Admin can Add, view, edit, delete courses.
* Admin can assign courses to employees, view courses, edit courses and delete courses.
* Admin can assign courses to semester., view courses, edit courses and delete courses.
* Admin can add, view, edit and delete timetable of each semester of each batch.
* Admin can add, view, edit and delete result of student in each courses of enrolled semester.
* Admin can mark attendance.
* Admin can view institution detail i.e. contact number, email, location etc.

1. Task completed by each member:
2. Hamza Farooq:

* CRUD implementation of time table.
* CRUD implementation of Courses.
* CRUD implementation of Batches.
* Assigned courses to each semester.
* CRUD implementation of Assigned course to semester.
* Front End Designing of above modules.
* Theme integration.
* Validation of above modules.
* Testing of above modules.

1. Ayesha Atif:

* CRUD implementation of Students.
* CRUD implementation of Employee.
* Assigned courses to each employee.
* CRUD implementation of assigned courses to each employee.
* CRUD implementation of Result.
* Mark Attendance.
* Testing of above modules.
* Validation of above modules.
* Front End designing of above modules along with main page.