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| Full Name | Karl Joseph Chetcuti |
| Email | Karlcht@hotmail.com |
| Batch | Full Stack Developer - December 2021 Cohort |
| Project Title | Developing a Backend Admin for Learner’s Academy. |
| Git Hub Link: | https://github.com/karlcht/JavaFSDcourse3Project.git |
| Project Submission Date | 23/08/2022 |

# Core Concepts Used in this Sprint

* Creating a dynamic web project
* Use of Servlerts and session management commands
* Use of JSP, HTML scripts
* Use of SQL Databases and familiarises with commands
* Use of JDBC to connect and communicate with database
* MVC pattern coding - DAO , Service Layer, Controller , model and view elements

# Code

Please refer to the next pages.

# Screenshots

Please refer to the next pages.

# Flow Chart

Refer to next page.

# Enhancing the application

The application can be enhanced as follows:

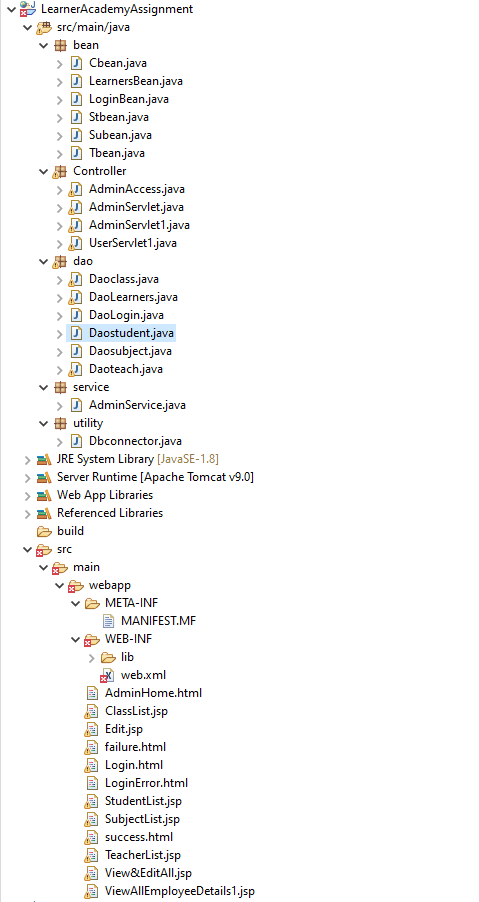
* Better user visuals
* Add more functions – such as sorting of data in alphabetical or numerical order
* Add function – to store session management data and cookies onto databases
* Add function for admin to view user’s session actions.

# Unique Selling Points

The application is:

* Easy to use
* Quick to implement using WAR files and uploading to Tomcat
* Straight-forward
* Can search large folders for existing files.

# Model View Controller Architecture



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| Cbean.java |
| **Source Code** |
| **package** bean;  **public** **class** Cbean {  **private** String className;  **public** String getClassName() {  **return** className;  }  **public** **void** setClassName(String className) {  **this**.className = className;  }    } |

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| LearnersBean.java |
| **Source Code** |
| **package** bean;  **public** **class** LearnersBean {  **private** String classroom;  **private** String subject;  **private** String TeacherName;  **private** String TeacherSurname;  **private** String StudentName ;  **private** String StudentSurName ;  **public** String getClassroom() {  **return** classroom;  }  **public** **void** setClassroom(String classroom) {  **this**.classroom = classroom;  }  **public** String getSubject() {  **return** subject;  }  **public** **void** setSubject(String subject) {  **this**.subject = subject;  }  **public** String getTeacherName() {  **return** TeacherName;  }  **public** **void** setTeacherName(String teacherName) {  TeacherName = teacherName;  }  **public** String getTeacherSurname() {  **return** TeacherSurname;  }  **public** **void** setTeacherSurname(String teacherSurname) {  TeacherSurname = teacherSurname;  }  **public** String getStudentName() {  **return** StudentName;  }  **public** **void** setStudentName(String studentName) {  StudentName = studentName;  }  **public** String getStudentSurName() {  **return** StudentSurName;  }  **public** **void** setStudentSurName(String studentSurName) {  StudentSurName = studentSurName;  }  } |

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| LoginBean.java |
| **Source Code** |
| **package** bean;  **public** **class** LoginBean {  **private** String username;  **private** **int** password;    **public** String getUsername() {  **return** username;  }  **public** **void** setUsername(String username) {  **this**.username = username;  }  **public** **int** getPassword() {  **return** password;  }  **public** **void** setPassword(**int** password) {  **this**.password = password;  }    } |

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| Stbean.java |
| **Source Code** |
| **package** bean;  **public** **class** Stbean {  **private** String studentName;  **private** String studentSurname;    **public** String getStudentName() {  **return** studentName;  }  **public** **void** setStudentName(String studentName) {  **this**.studentName = studentName;  }  **public** String getStudentSurname() {  **return** studentSurname;  }  **public** **void** setStudentSurname(String studentSurname) {  **this**.studentSurname = studentSurname;  }        } |

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| Subean.java |
| **Source Code** |
| **package** bean;  **public** **class** Subean {  **private** String subjectName;  **private** String subjectCode;    **public** String getSubjectName() {  **return** subjectName;  }  **public** **void** setSubjectName(String subjectName) {  **this**.subjectName = subjectName;  }  **public** String getSubjectCode() {  **return** subjectCode;  }  **public** **void** setSubjectCode(String subjectCode) {  **this**.subjectCode = subjectCode;  }    } |

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| Tbean.java |
| **Source Code** |
| **package** bean;  **public** **class** Tbean {  **private** String teacherName;  **private** String teacherSurname;    **public** String getTeacherName() {  **return** teacherName;  }  **public** **void** setTeacherName(String teacherName) {  **this**.teacherName = teacherName;  }  **public** String getTeacherSurname() {  **return** teacherSurname;  }  **public** **void** setTeacherSurname(String teacherSurname) {  **this**.teacherSurname = teacherSurname;  }    } |

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| AdminAccess.java (Servlet) |
| **Source Code** |
| **package** Controller;  **import** java.io.IOException;  **import** java.util.List;  **import** javax.servlet.RequestDispatcher;  **import** javax.servlet.ServletException;  **import** javax.servlet.http.HttpServlet;  **import** javax.servlet.http.HttpServletRequest;  **import** javax.servlet.http.HttpServletResponse;  **import** javax.servlet.http.HttpSession;  **import** bean.Cbean;  **import** bean.LearnersBean;  **import** bean.Tbean;  **import** service.AdminService;  /\*\*  \* Servlet implementation class AdminAccess  \*/  **public** **class** AdminAccess **extends** HttpServlet {  **private** **static** **final** **long** ***serialVersionUID*** = 1L;      **public** AdminAccess() {      }    **protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {    HttpSession session = request.getSession();  AdminService service = **new** AdminService();  String generateObj = (String) session.getAttribute("generateObj");    **if**(generateObj.equalsIgnoreCase("true"))  {    List<Cbean> clistAdmin = service.viewClasses();  List<LearnersBean> list = service.viewLearnerTable();  List<Tbean> tlist = service.viewTProfile();  request.setAttribute("listofLearnerObj", list);  request.setAttribute("listofClassListObj", clistAdmin);      RequestDispatcher rd = request.getRequestDispatcher("/ViewAllEmployeeDetails1.jsp");  rd.forward(request, response);    }  }    **protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  // **TODO** Auto-generated method stub  doGet(request, response);  }  } |

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| AdminServlet1.java (Servlet) |
| **Source Code** |
| **package** Controller;  **import** java.io.IOException;  **import** java.util.ArrayList;  **import** java.util.HashSet;  **import** java.util.List;  **import** java.util.Set;  **import** java.util.StringTokenizer;  **import** java.util.TreeSet;  **import** javax.servlet.RequestDispatcher;  **import** javax.servlet.ServletException;  **import** javax.servlet.http.HttpServlet;  **import** javax.servlet.http.HttpServletRequest;  **import** javax.servlet.http.HttpServletResponse;  **import** javax.servlet.http.HttpSession;  **import** org.apache.catalina.connector.OutputBuffer;  **import** bean.Cbean;  **import** bean.LearnersBean;  **import** bean.Stbean;  **import** bean.Subean;  **import** bean.Tbean;  **import** service.AdminService;  /\*\*  \* Servlet implementation class AdminServlet1  \*/  **public** **class** AdminServlet1 **extends** HttpServlet {  **private** **static** **final** **long** ***serialVersionUID*** = 1L;    **public** AdminServlet1() {        }  **protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {    HttpSession session = request.getSession();  AdminService service = **new** AdminService();  String generateObj = (String) session.getAttribute("generateObj");            String buttonValue = request.getParameter("button");      **if** (buttonValue == **null** || buttonValue.isEmpty())  {  System.***out***.println("Button val is null");  }        **else** **if**(buttonValue.equalsIgnoreCase("Save"))  {          System.***out***.println(buttonValue);  String classes = request.getParameter("classlist");  String teachName = request.getParameter("editteachname");  String teachSurname = request.getParameter("editteachsurname");  String subject = request.getParameter("editsubject");  String studentName = request.getParameter("editstudentname");  String studentSurname = request.getParameter("editstudentsurname");        //System.out.println(classes+teachName+teachSurname+subject+studentName+studentSurname);        LearnersBean bean = **new** LearnersBean();    bean.setClassroom(classes);  bean.setTeacherName(teachName);  bean.setTeacherSurname(teachSurname);  bean.setStudentName(studentName);  bean.setStudentSurName(studentSurname);  bean.setSubject(subject);    System.***out***.println(bean.getClassroom() + bean.getStudentName()+bean.getSubject());      **boolean** list1 = service.insertinLearnersTable(bean);  System.***out***.println(list1);    **if**(list1 == **true**)  {  RequestDispatcher rd2 = request.getRequestDispatcher("/success.html");  rd2.forward(request, response);    //response.setIntHeader("Refresh", 0);  System.***out***.println(buttonValue);  }    **else**  {  RequestDispatcher rd2 = request.getRequestDispatcher("/failure.html");  rd2.forward(request, response);  System.***out***.println(buttonValue);  }    }      **else** **if** ((buttonValue.contains("Delete")))  {  System.***out***.println(buttonValue);  System.***out***.println("Delete Button Works");    String studentName = buttonValue.split(",")[1];  String studentSurname = buttonValue.split(",")[2];  System.***out***.println(studentName+" "+studentSurname);    **int** count = service.deleteLearnerByName(studentName,studentSurname);    **if** (count>0)  {  RequestDispatcher rd = request.getRequestDispatcher("/success.html");  rd.forward(request, response);  }    **else**  {  RequestDispatcher rd = request.getRequestDispatcher("/failure.html");  rd.forward(request, response);  }      }      **else** **if** ((buttonValue.contains("Edit")))  {  System.***out***.println(buttonValue);  System.***out***.println("Edit Button Works");    String studentName = buttonValue.split(",")[1];  String studentSurname = buttonValue.split(",")[2];  System.***out***.println(studentName+" "+studentSurname);  LearnersBean Search = service.SearchLearner(studentName, studentSurname);  request.setAttribute("Search", Search);  List<Cbean> clistAdmin = service.viewClasses();  request.setAttribute("listofClassListObj", clistAdmin);    **if** (Search != **null**)  {  **int** count = service.deleteLearnerByName(studentName,studentSurname);  }    RequestDispatcher rd = request.getRequestDispatcher("/Edit.jsp");  rd.forward(request, response);    }      **else** **if** ((buttonValue.contains("subjectlist")))  {    System.***out***.println(buttonValue);  Set<String> hs = **new** HashSet();  List<LearnersBean> lbean = (List<LearnersBean>) service.viewLearnerTable();  **for**(LearnersBean bean:lbean)  {  hs.add(bean.getSubject());  }        request.setAttribute("listofsubjects",hs );    /\*  \* for(LearnersBean b:hs) { System.out.println(b.getSubject()); }  \*/    RequestDispatcher rd = request.getRequestDispatcher("/SubjectList.jsp");  rd.forward(request, response);    }        **else** **if** ((buttonValue.contains("studentlist")))  {    System.***out***.println(buttonValue);      Set<Stbean> hs = **new** HashSet<Stbean>();  List<LearnersBean> lbean = (List<LearnersBean>) service.viewLearnerTable();  **for**(LearnersBean bean:lbean)  {      Stbean st = **new** Stbean();  st.setStudentName(bean.getStudentName());  st.setStudentSurname(bean.getStudentSurName());  hs.add(st);      }    **for**(Stbean bean:hs)  System.***out***.println(bean.getStudentName() + bean.getStudentSurname());          request.setAttribute("listofstudents",hs );      RequestDispatcher rd = request.getRequestDispatcher("/StudentList.jsp");  rd.forward(request, response);    }    **else** **if** ((buttonValue.contains("teacherlist")))  {    System.***out***.println(buttonValue);      Set<Tbean> hs = **new** HashSet<Tbean>();  List<LearnersBean> lbean = (List<LearnersBean>) service.viewLearnerTable();  **for**(LearnersBean bean:lbean)  {      Tbean tb = **new** Tbean();  tb.setTeacherName(bean.getTeacherName());  tb.setTeacherSurname(bean.getTeacherSurname());  hs.add(tb);      }    **for**(Tbean bean:hs)  System.***out***.println(bean.getTeacherName() + bean.getTeacherSurname());          request.setAttribute("listofteachers",hs );      RequestDispatcher rd = request.getRequestDispatcher("/TeacherList.jsp");  rd.forward(request, response);    }    **else** **if** ((buttonValue.contains("classlist")))  {    System.***out***.println(buttonValue);      Set<String> hs = **new** HashSet<String>();  List <String> list = **new** <String>ArrayList();  TreeSet<String> myTreeSet = **new** TreeSet<String>();  List<LearnersBean> lbean = (List<LearnersBean>) service.viewLearnerTable();  **for**(LearnersBean bean:lbean)  {      hs.add(bean.getClassroom());  list.addAll(hs);  myTreeSet.addAll(hs);      }    **for**(String classlist:hs)  System.***out***.println(classlist.toString());          request.setAttribute("listofclass",myTreeSet );      RequestDispatcher rd = request.getRequestDispatcher("/ClassList.jsp");  rd.forward(request, response);    }    **else** **if** ((buttonValue.contains("logout")))  {    System.***out***.println(buttonValue);    //request.getSession(false).invalidate();  session.invalidate();  session = **null**;        **if** (session == **null**)  System.***out***.println("Session invalidated");    **else**  System.***out***.println("Session NOT INVALIDATED");    RequestDispatcher rd = request.getRequestDispatcher("/Login.html");  System.***out***.println("Context path = "+request.getContextPath());  response.sendRedirect(request.getContextPath() + "/Login.html");  // rd.include(request, response);  //response.sendRedirect("/Login.html");        }    }    **private** **void** handleCaseFormessedUpForm() {  // **TODO** Auto-generated method stub    }        **protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  // **TODO** Auto-generated method stub  doGet(request, response);  }  } |

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| UserServlet1.java (Servlet) |
| **Source Code** |
| **package** Controller;  **import** java.io.IOException;  **import** java.util.List;  **import** javax.servlet.RequestDispatcher;  **import** javax.servlet.ServletException;  **import** javax.servlet.http.HttpServlet;  **import** javax.servlet.http.HttpServletRequest;  **import** javax.servlet.http.HttpServletResponse;  **import** javax.servlet.http.HttpSession;  **import** bean.Cbean;  **import** bean.LearnersBean;  **import** bean.LoginBean;  **import** service.AdminService;  **public** **class** UserServlet1 **extends** HttpServlet {  **private** **static** **final** **long** ***serialVersionUID*** = 1L;      **public** UserServlet1() {    }  **protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  //Logout  HttpSession session = request.getSession();  session.invalidate();  }  **protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {    System.***out***.println("Post of UserServlet1");  String userName = request.getParameter("userName");  String generateObj = "false" ;  **int** password = Integer.*parseInt*(request.getParameter("password"));    LoginBean beanFromUser = **new** LoginBean();  beanFromUser.setUsername(userName);  beanFromUser.setPassword(password);  System.***out***.println(userName);  System.***out***.println(password);          AdminService service = **new** AdminService();  String user = service.login(beanFromUser);  HttpSession session = request.getSession();      **if** (user == **null**)  {  RequestDispatcher rd = request.getRequestDispatcher("/LoginError.html");  rd.forward(request, response);    }      **else** **if** (user.equalsIgnoreCase("Admin"))  {  session.setAttribute("userName", userName);  generateObj = "true";  session.setAttribute("generateObj", generateObj);    String sessiontime = "Session ID: " +session.getId() + "Session created: "+session.getCreationTime();  session.setAttribute("sessiontime",sessiontime);  System.***out***.println(sessiontime);    /\*  \* RequestDispatcher rd = request.getRequestDispatcher("AdminServlet1.jsp");  \* rd.forward(request, response);  \*/      RequestDispatcher rd = request.getRequestDispatcher("AdminAccess");  rd.forward(request, response);            }          }    } |

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| Daoclass.java |
| **Source Code** |
| **package** dao;  **import** java.sql.Connection;  **import** java.sql.PreparedStatement;  **import** java.sql.ResultSet;  **import** java.util.ArrayList;  **import** java.util.List;  **import** bean.Cbean;  **import** bean.Stbean;  **import** utility.Dbconnector;  **public** **class** Daoclass {    **public** List<Cbean> getAllClasses() {  List<Cbean> listOfClasses = **new** ArrayList<Cbean>();  **try** {  Connection con = Dbconnector.*getConnection*();  java.sql.Statement stmt = con.createStatement();  String query = "Select \* from classes";  stmt.execute(query);  ResultSet rs = stmt.executeQuery(query);  **while** (rs.next()) {  Cbean bean = **new** Cbean();  bean.setClassName(rs.getString(1));  listOfClasses.add(bean);    }  con.close();  }  **catch** (Exception e) {  }  **return** listOfClasses;  }  **public** **boolean** insertClass(Cbean bean) {  **boolean** insertStatus = **false**;  **try** {  Connection con = Dbconnector.*getConnection*();  String query = "insert into classes values (?)";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setString(1, bean.getClassName());  **int** count = pstmt.executeUpdate();  **if** (count > 0) {  insertStatus = **true**;  }  System.***out***.println("Rows impacted: " + count);  con.close();  }  **catch** (Exception e) {  e.printStackTrace();  }  **return** insertStatus;  }  **public** **int** deleteClassByName(String name) {  **int** deleteCount = 0;  **try** {  Connection con = Dbconnector.*getConnection*();  String query = "delete classes where name =?";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setString(1, name);  deleteCount = pstmt.executeUpdate();  System.***out***.println("Rows impacted: " + deleteCount);  con.close();  }  **catch** (Exception e) {  e.printStackTrace();  }  **return** deleteCount;  }  } |

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| DaoLearners.java |
| **Source Code** |
| **package** dao;  **import** java.sql.Connection;  **import** java.sql.PreparedStatement;  **import** java.sql.ResultSet;  **import** java.util.ArrayList;  **import** java.util.List;  **import** bean.Cbean;  **import** bean.LearnersBean;  **import** utility.Dbconnector;  **public** **class** DaoLearners {    **public** List<LearnersBean> getAll() {  List<LearnersBean> listOfTable = **new** ArrayList<LearnersBean>();  // Always initialise the variable prior to using it !!!!!  // Else you will run the risk of it having a value and executing a false  // positive !!  //listOfTable = null;  **try** {  Connection con = Dbconnector.*getConnection*();  java.sql.Statement stmt = con.createStatement();  String query = "Select \* from Learners";  stmt.execute(query);  ResultSet rs = stmt.executeQuery(query);  **while** (rs.next()) {  LearnersBean bean = **new** LearnersBean();  bean.setClassroom(rs.getString(1));  ;  bean.setSubject(rs.getString(2));  bean.setTeacherName(rs.getString(3));  bean.setTeacherSurname(rs.getString(4));  bean.setStudentName(rs.getString(5));  bean.setStudentSurName(rs.getString(6));  listOfTable.add(bean);  }    **if**(listOfTable.isEmpty())  {  listOfTable = **null**;  }    con.close();  }  **catch** (Exception e) {  }  **return** listOfTable;  }  **public** **boolean** insertAll(LearnersBean bean) {  **boolean** insertStatus = **false**;  **try** {  Connection con = Dbconnector.*getConnection*();  String query = "insert into Learners values (?,?,?,?,?,?)";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setString(1, bean.getClassroom());  pstmt.setString(2, bean.getSubject());  pstmt.setString(3, bean.getTeacherName());  pstmt.setString(4, bean.getTeacherSurname());  pstmt.setString(5, bean.getStudentName());  pstmt.setString(6, bean.getStudentSurName());  **int** count = pstmt.executeUpdate();  **if** (count > 0) {  insertStatus = **true**;  }  System.***out***.println("Rows impacted: " + count);  con.close();  }  **catch** (Exception e) {  e.printStackTrace();  }      **return** insertStatus;  }  **public** **int** deleteClassByName(String name, String surname) {  **int** deleteCount = 0;  **try** {  Connection con = Dbconnector.*getConnection*();  String query = "delete Learners where StudentName =? And STUDENTSURNAME =?";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setString(1, name);  pstmt.setString(2, surname);  deleteCount = pstmt.executeUpdate();  System.***out***.println("Rows impacted: " + deleteCount);  con.close();  }  **catch** (Exception e) {  e.printStackTrace();  }  **return** deleteCount;  }  **public** LearnersBean searchLearnersByName(String name, String surname) {      LearnersBean bean = **new** LearnersBean();  **try** {  Connection con = Dbconnector.*getConnection*();  java.sql.Statement stmt = con.createStatement();  String query = "SELECT \* FROM Learners WHERE STUDENTNAME='"+name+"' AND STUDENTSURNAME ='"+surname+"'";  stmt.execute(query);    ResultSet rs = stmt.executeQuery(query);  **if** (rs.next())  {  bean.setClassroom(rs.getString(1));  bean.setSubject(rs.getString(2));  bean.setTeacherName(rs.getString(3));  bean.setTeacherSurname(rs.getString(4));  bean.setStudentName(rs.getString(5));  bean.setStudentSurName(rs.getString(6));    }    **else**  {  bean = **null**;  }  System.***out***.println(bean.getClassroom() + bean.getStudentName() + bean.getStudentSurName());    }  **catch** (Exception e) {  e.printStackTrace();  }  **return** bean;  }    } |

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| DaoLogin.java |
| **Source Code** |
| **package** dao;  **import** java.sql.Connection;  **import** java.sql.ResultSet;  **import** bean.LoginBean;  **import** utility.Dbconnector;  **public** **class** DaoLogin {    **public** LoginBean getUserByUserName(String userName) {  LoginBean bean = **new** LoginBean();  **try** {  Connection con = Dbconnector.*getConnection*();  java.sql.Statement stmt = con.createStatement();  String query = "Select \* from Learners\_login where username =" + "'" + userName + "'";  stmt.execute(query);  ResultSet rs = stmt.executeQuery(query);  **if**(rs.next()) {  bean.setUsername(rs.getString(1));  bean.setPassword(rs.getInt(2));  }  **else** {  bean = **null**;  }  }  **catch** (Exception e) {  }  **return** bean;  }  } |

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| Daostudent.java |
| **Source Code** |
| **package** dao;  **import** java.sql.Connection;  **import** java.sql.PreparedStatement;  **import** java.sql.ResultSet;  **import** java.util.ArrayList;  **import** java.util.List;  **import** bean.Stbean;  **import** utility.Dbconnector;  **public** **class** Daostudent {    /\*  \* public static void main(String [] args) {  \*  \* Daostudent std = new Daostudent(); List<Stbean> listOfStudents =  \* std.getAllStudents(); for (Stbean bean:listOfStudents) {  \* System.out.println(bean.getStudentName() + " & name: " +  \* bean.getStudentSurname()); }  \*  \* }  \*/      **public** List<Stbean> getAllStudents()  {    List<Stbean> listOfStudents = **new** ArrayList<Stbean>();    **try**  {  Connection con = Dbconnector.*getConnection*();  java.sql.Statement stmt = con.createStatement();  String query = "Select \* from students";  stmt.execute(query);  ResultSet rs = stmt.executeQuery(query);  **while**(rs.next())  {  Stbean bean = **new** Stbean();  bean.setStudentName(rs.getString(1));  bean.setStudentSurname(rs.getString(2));  listOfStudents.add(bean);        }    con.close();    }    **catch**(Exception e)  {      }      **return** listOfStudents;    }    **public** **boolean** insertStudent(Stbean bean)  {  **boolean** insertStatus = **false**;    **try** {  Connection con = Dbconnector.*getConnection*();  String query = "insert into students values (?,?)";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setString(1, bean.getStudentName());  pstmt.setString(2, bean.getStudentSurname());  **int** count = pstmt.executeUpdate();  **if**(count>0)  {  insertStatus = **true**;  }    System.***out***.println("Rows impacted: " + count);  con.close();  }      **catch**(Exception e)  {  e.printStackTrace();    }  **return** insertStatus;    }    **public** **int** deleteStudentByName(**int** name)  {  **int** deleteCount = 0;    **try** {  Connection con = Dbconnector.*getConnection*();  String query = "delete students where name =?";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setInt(1, name);  deleteCount = pstmt.executeUpdate();  System.***out***.println("Rows impacted: " + deleteCount);  con.close();  }      **catch**(Exception e)  {  e.printStackTrace();    }  **return** deleteCount;    }      } |

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| Daosubject.java |
| **Source Code** |
| **package** dao;  **import** java.sql.Connection;  **import** java.sql.PreparedStatement;  **import** java.sql.ResultSet;  **import** java.util.ArrayList;  **import** java.util.List;  **import** bean.Subean;  **import** utility.Dbconnector;  **public** **class** Daosubject {  **public** List<Subean> getAllSubjects()  {    List<Subean> listOfSubjects = **new** ArrayList<Subean>();    **try**  {  Connection con = Dbconnector.*getConnection*();  java.sql.Statement stmt = con.createStatement();  String query = "Select \* from subjects";  stmt.execute(query);  ResultSet rs = stmt.executeQuery(query);  **while**(rs.next())  {  Subean bean = **new** Subean();  bean.setSubjectName(rs.getString(1));  bean.setSubjectCode(rs.getString(2));  listOfSubjects.add(bean);    }    con.close();    }    **catch**(Exception e)  {      }      **return** listOfSubjects;    }    **public** **boolean** insertSubject(Subean bean)  {  **boolean** insertStatus = **false**;    **try** {  Connection con = Dbconnector.*getConnection*();  String query = "insert into subjects values (?,?)";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setString(1, bean.getSubjectName());  pstmt.setString(2, bean.getSubjectCode());  **int** count = pstmt.executeUpdate();  **if**(count>0)  {  insertStatus = **true**;  }    System.***out***.println("Rows impacted: " + count);  con.close();  }      **catch**(Exception e)  {  e.printStackTrace();    }  **return** insertStatus;    }    **public** **int** deleteSubjectByName(**int** name)  {  **int** deleteCount = 0;    **try** {  Connection con = Dbconnector.*getConnection*();  String query = "delete subjects where name =?";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setInt(1, name);  deleteCount = pstmt.executeUpdate();  System.***out***.println("Rows impacted: " + deleteCount);  con.close();  }      **catch**(Exception e)  {  e.printStackTrace();    }  **return** deleteCount;    }    } |

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| Daoteach.java |
| **Source Code** |
| **package** dao;  **import** java.sql.Connection;  **import** java.sql.PreparedStatement;  **import** java.sql.ResultSet;  **import** java.util.ArrayList;  **import** java.util.List;  **import** bean.Stbean;  **import** bean.Tbean;  **import** utility.Dbconnector;  **public** **class** Daoteach {  **public** List<Tbean> getAllTeachers()  {    List<Tbean> listOfTeachers= **new** ArrayList<Tbean>();    **try**  {  Connection con = Dbconnector.*getConnection*();  java.sql.Statement stmt = con.createStatement();  String query = "Select \* from subjects";  stmt.execute(query);  ResultSet rs = stmt.executeQuery(query);  **while**(rs.next())  {  Tbean bean = **new** Tbean();  bean.setTeacherName(rs.getString(1));  bean.setTeacherSurname(rs.getString(2));  listOfTeachers.add(bean);    }    con.close();    }    **catch**(Exception e)  {      }      **return** listOfTeachers;    }    **public** **boolean** insertTeach(Tbean bean)  {  **boolean** insertStatus = **false**;    **try** {  Connection con = Dbconnector.*getConnection*();  String query = "insert into teachers values (?,?)";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setString(1, bean.getTeacherName());  pstmt.setString(2, bean.getTeacherSurname());  **int** count = pstmt.executeUpdate();  **if**(count>0)  {  insertStatus = **true**;  }    System.***out***.println("Rows impacted: " + count);  con.close();  }      **catch**(Exception e)  {  e.printStackTrace();    }  **return** insertStatus;    }    **public** **int** deleteTeachersByName(**int** name)  {  **int** deleteCount = 0;    **try** {  Connection con = Dbconnector.*getConnection*();  String query = "delete teachers where name =?";  PreparedStatement pstmt = con.prepareStatement(query);  pstmt.setInt(1, name);  deleteCount = pstmt.executeUpdate();  System.***out***.println("Rows impacted: " + deleteCount);  con.close();  }      **catch**(Exception e)  {  e.printStackTrace();    }  **return** deleteCount;    }    } |

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| AdminService.java |
| **Source Code** |
| **package** service;  **import** java.util.List;  **import** bean.Cbean;  **import** bean.LearnersBean;  **import** bean.LoginBean;  **import** bean.Stbean;  **import** bean.Subean;  **import** bean.Tbean;  **import** dao.DaoLearners;  **import** dao.DaoLogin;  **import** dao.Daoclass;  **import** dao.Daostudent;  **import** dao.Daosubject;  **import** dao.Daoteach;  **public** **class** AdminService {  DaoLogin login = **new** DaoLogin();  Daostudent student = **new** Daostudent();  Daosubject subject = **new** Daosubject();  Daoteach teach = **new** Daoteach();  Daoclass classes = **new** Daoclass();  DaoLearners learner= **new** DaoLearners();            **public** **boolean** AddStProfile(Stbean bean)  {  **return** student.insertStudent(bean);  }    **public** **int** deleteStProfile(**int** stId)  {    **return** student.deleteStudentByName(stId);  }    **public** List<Stbean> viewStProfile()  {  **return** student.getAllStudents();  }    **public** **boolean** AddTProfile(Tbean bean)  {  **return** teach.insertTeach(bean);  }    **public** **int** deleteTProfile(**int** TId)  {    **return** teach.deleteTeachersByName(TId);  }    **public** List<Tbean> viewTProfile()  {  **return** teach.getAllTeachers();  }      **public** **boolean** AddSuProfile(Subean bean)  {  **return** subject.insertSubject(bean);  }    **public** **int** deleteSuProfile(**int** SuId)  {    **return** subject.deleteSubjectByName(SuId);  }    **public** List<Subean> viewSuProfile()  {  **return** subject.getAllSubjects();  }      **public** **boolean** AddClasses(Cbean bean)  {  **return** classes.insertClass(bean);  }    **public** **int** deleteClasses(String classname)  {    **return** classes.deleteClassByName(classname);  }    **public** List<Cbean> viewClasses()  {  **return** classes.getAllClasses();  }      **public** **boolean** insertinLearnersTable(LearnersBean bean)  {  **return** learner.insertAll(bean);  }      **public** **int** deleteLearnerByName(String learnername, String learnerSurname)  {  **return** learner.deleteClassByName(learnername,learnerSurname);  }      **public** List<LearnersBean> viewLearnerTable()  {  **return** learner.getAll();  }    **public** LearnersBean SearchLearner(String name, String surname)  {    **return** learner.searchLearnersByName(name, surname);    }      DaoLogin userDao = **new** DaoLogin();    **public** String login(LoginBean beanFromUser)  {  String user = **null**;    LoginBean beanFromDb = userDao.getUserByUserName(beanFromUser.getUsername()) ;    **if**(beanFromDb != **null**)  {      **if**(beanFromUser.getUsername().equals(beanFromDb.getUsername()) && beanFromUser.getPassword() == beanFromDb.getPassword())  {  user = beanFromDb.getUsername();  System.***out***.println("Password Is CORRECT");  System.***out***.println("Admin Service - Bean from DB - username = '" +beanFromDb.getUsername()+"' & password = '"+ beanFromDb.getPassword()+"'");  System.***out***.println("Admin Service - Bean from USER - username = '" +beanFromUser.getUsername()+"' & password = '"+ beanFromUser.getPassword()+"'");  }  **else**  {  System.***out***.println("ADMIN SERVICE - INCORRECT USER OR PASWORD");  System.***out***.println("Admin Service - Bean from DB - username = '" +beanFromDb.getUsername()+"' & password = '"+ beanFromDb.getPassword()+"'");  System.***out***.println("Admin Service - Bean from USER - username = '" +beanFromUser.getUsername()+"' & password = '"+ beanFromUser.getPassword()+"'");  }  }    **return** user;  }  } |

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| Dbconnector.java |
| **Source Code** |
| **package** utility;  **import** java.sql.Connection;  **import** java.sql.DriverManager;  **import** java.sql.SQLException;  **public** **class** Dbconnector {  **static** Connection *con* = **null** ;    **public** **static** Connection getConnection() **throws** SQLException  {    //Added con.isClosed to avoid a closed connection con == null is not enough at times  **if** (*con* == **null** || *con*.isClosed())  {  **try** {    Class.*forName*("oracle.jdbc.driver.OracleDriver");  *con* = (Connection) DriverManager.*getConnection*(  "jdbc:oracle:thin:@localhost:1521:xe", "system", "karl");  System.***out***.println("Connection Success");  }    **catch** (Exception e)  {  // **TODO** Auto-generated catch block  e.printStackTrace();  }      }      **return** *con*;  }  } |

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| web.xml |
| **Source Code** |
| <?xml version=*"1.0"* encoding=*"UTF-8"*?>  <web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"* id=*"WebApp\_ID"* version=*"2.5"*>  <display-name>LearnerAcademyAssignment</display-name>    <welcome-file-list>  <welcome-file>Login.html</welcome-file>  <!-- <welcome-file>index.html</welcome-file>  <welcome-file>index.jsp</welcome-file>  <welcome-file>index.htm</welcome-file>  <welcome-file>default.html</welcome-file>  <welcome-file>default.jsp</welcome-file>  <welcome-file>default.htm</welcome-file> -->  </welcome-file-list>  <servlet>  <description></description>  <display-name>AdminServlet1</display-name>  <servlet-name>AdminServlet1</servlet-name>  <servlet-class>Controller.AdminServlet1</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>AdminServlet1</servlet-name>  <url-pattern>/AdminServlet1</url-pattern>  </servlet-mapping>  <servlet>  <description></description>  <display-name>UserServlet1</display-name>  <servlet-name>UserServlet1</servlet-name>  <servlet-class>Controller.UserServlet1</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>UserServlet1</servlet-name>  <url-pattern>/UserServlet1</url-pattern>  </servlet-mapping>  <servlet>  <description></description>  <display-name>AdminAccess</display-name>  <servlet-name>AdminAccess</servlet-name>  <servlet-class>Controller.AdminAccess</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>AdminAccess</servlet-name>  <url-pattern>/AdminAccess</url-pattern>  </servlet-mapping>  </web-app> |

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| AdminHome.html |
| **Source Code** |
| <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Admin home</title>  </head>  <body>  <h3 align=*"center"*> Admin Home Page</h3>  <div><a href=*""*> Logout</a></div>  <br>  <form action=*"AdminServlet1"* method=*"get"*>  <a href=*"ViewAllEmployeeDetails.jsp"* > <input > View TABLE </a><br>  </form>  </body>  </html> |

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| ClassList.jsp |
| **Source Code** |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*  import=*"java.util.ArrayList"*  import=*" java.util.List"*  import = *"service.AdminService"*  import = *"bean.LearnersBean"*  import = *"bean.Cbean"*  import = *"java.util.HashSet"*  import = *"java.util.List"*  import = *"java.util.Set"*  import = *"bean.Tbean"*  import =*"java.util.TreeSet"*      %>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <form action=*"AdminServlet1"* method=*"get"*>  <h3 align=*"center"*> All Classes</h3>  <hr>  <a href=*"AdminAccess"* style="color:*orange*;"><h3>Press Link to go back to Learners List</h3> </a><br>  <table align=*"center"* border=*"1"*>  <tr>  <td><H2> Class List</H2></td>  <tr/>      <%  TreeSet <String>tslist = (TreeSet <String>)request.getAttribute("listofclass");  %>  <%  **if**(tslist!=**null**){      **for**(String treevar:tslist)  {  %>  <tr>  <td><%=treevar%></td>  <tr/>      <%    }    }    %>  <tr/>  <form/>  </body>  </html> |

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| Edit.jsp |
| **Source Code** |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*      import=*"java.util.ArrayList"*  import=*" java.util.List"*  import = *"service.AdminService"*  import = *"bean.LearnersBean"*  import = *"bean.Cbean"*      %>    <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <form action=*"AdminServlet1"* method=*"get"*>  <h3 align=*"center"*> EDIT Employee Details</h3>  <hr>    <table align=*"center"* border=*"1"*>  <tr>  <td> Class</td>  <td> Subject</td>  <td> Teacher Name</td>  <td> Teacher Surname</td>  <td> Student Name</td>  <td> Student Surname</td>  <td colspan=*"1"*>Action</td>  <tr/>    <tr>    <td><select name=*"classlist"*>  <%  LearnersBean Lbean = (LearnersBean)request.getAttribute("Search");  List<Cbean> Clist = (List<Cbean>)request.getAttribute("listofClassListObj");      **for**(Cbean bean:Clist)  {  %>  <option value=*"*<%= bean.getClassName() %>*"*><%= bean.getClassName() %><option/>  <% } %>  </select> </td>  <td><input type=*"text"* value=*"*<%=Lbean.getSubject()%>*"* name=*"editsubject"*></td>  <td><input type=*"text"* value=*"*<%=Lbean.getTeacherName()%>*"* name=*"editteachname"*></td>  <td><input type=*"text"* value=*"*<%=Lbean.getTeacherSurname() %>*"* name=*"editteachsurname"*></td>  <td><input type=*"text"* value=*"*<%=Lbean.getStudentName()%>*"* name=*"editstudentname"*></td>  <td><input type=*"text"* value=*"*<%=Lbean.getStudentSurName() %>*"* name=*"editstudentsurname"*></td>  <td><input type=*"submit"* value = *"Save"* name=*"button"*></td>  </tr>      </table>  </form>  </body>  </html> |

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| failure.html |
| **Source Code** |
| <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <h1 align=*"center"*> FAILURE </h1><br>  <a href=*"AdminAccess"* style="color: *red*;"><h3>Back to Home Page</h3> </a><br>  </body>  </html> |

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| Login.html |
| **Source Code** |
| <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <form action =*"UserServlet1"* method = *"post"*>  <h2 align=*"center"*> Login </h2>  <hr>  <table align=*"center"*>  <tr>  <td>UserName:<td/>  <td><input type=*"text"* name=*"userName"*></td>  <tr/>  <tr>  <td>Password:<td/>  <td><input type=*"password"* name=*"password"*></td>  <tr/>    <tr>  <td align=*"center"*><input type=*"reset"* value = *"Reset"*><td/>  <td align=*"center"*><input type=*"submit"* value=*"Login"*></td>  <tr/>    </table>  </form>  </body>  </html> |

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| LoginError.html |
| **Source Code** |
| <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <div align=*"center"* style="color: *red*;">  Invalid credentials <a href = *"Login.html"*> Login</a> again.  </div>  </body>  </html> |

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| StudentList.jsp |
| **Source Code** |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*    import=*"java.util.ArrayList"*  import=*" java.util.List"*  import = *"service.AdminService"*  import = *"bean.LearnersBean"*  import = *"bean.Stbean"*  import = *"java.util.HashSet"*  import = *"java.util.List"*  import = *"java.util.Set"*  import = *"java.util.HashSet"*  import =*"java.util.List"*  import = *"java.util.Set"*      %>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <form action=*"AdminServlet1"* method=*"get"*>  <h3 align=*"center"*> Student List</h3>  <hr>  <a href=*"AdminAccess"* style="color:*orange*;"><h3>Press Link to go back to Learners List</h3> </a><br>  <table align=*"center"* border=*"1"*>  <!-- <tr>  <td><H2> Student List</H2></td>  <tr/> -->  <tr>  <td><H3> Student Name</H3></td>  <td> <H3>Student Surname</H3></td>  <tr/>      <%  Set<Stbean> hslist = (Set<Stbean>)request.getAttribute("listofstudents");  %>  <%  **if**(hslist!=**null**){      **for**(Stbean hashvar:hslist)  {  %>  <tr>  <td><%=hashvar.getStudentName()%></td>  <td><%=hashvar.getStudentSurname()%></td>  <%-- <td><%=hashvar.hashCode()%></td> --%>  <tr/>      <%    }    }    %>  <tr/>  <form/>  </body>  </html> |

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| SubjectList.jsp |
| **Source Code** |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*    import=*"java.util.ArrayList"*  import=*" java.util.List"*  import = *"service.AdminService"*  import = *"bean.LearnersBean"*  import = *"bean.Cbean"*  import = *"java.util.HashSet"*  import = *"java.util.List"*  import = *"java.util.Set"*    %>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <form action=*"AdminServlet1"* method=*"get"*>  <h3 align=*"center"*> All Subjects</h3>  <hr>  <a href=*"AdminAccess"* style="color:*orange*;"><h3>Press Link to go back to Learners List</h3> </a><br>  <table align=*"center"* border=*"1"*>  <tr>  <td><H2> Subject List</H2></td>  <tr/>      <%  Set<String> hslist = (Set<String>)request.getAttribute("listofsubjects");  %>  <%  **if**(hslist!=**null**){      **for**(String hashvar:hslist)  {  %>  <tr>  <td><%=hashvar%></td>  <tr/>      <%    }    }    %>  <tr/>  <form/>  </body>  </html> |

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| success.html |
| **Source Code** |
| <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <h1 align=*"center"*> SUCCESS </h1><br>  <a href=*"AdminAccess"* style="color: *green*;"><h3>Back to Home Page</h3> </a><br>  </body>  </html> |

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| TeacherList.jsp |
| **Source Code** |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*      import=*"java.util.ArrayList"*  import=*" java.util.List"*  import = *"service.AdminService"*  import = *"bean.LearnersBean"*  import = *"bean.Cbean"*  import = *"java.util.HashSet"*  import = *"java.util.List"*  import = *"java.util.Set"*  import = *"bean.Tbean"*  %>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <form action=*"AdminServlet1"* method=*"get"*>  <h3 align=*"center"*> Teachers List</h3>  <hr>  <a href=*"AdminAccess"* style="color:*orange*;"><h3>Press Link to go back to Learners List</h3> </a><br>  <table align=*"center"* border=*"1"*>  <!-- <tr>  <td><H2> Student List</H2></td>  <tr/> -->  <tr>  <td><H3> Teacher Name</H3></td>  <td> <H3>Teacher Surname</H3></td>  <tr/>      <%  Set<Tbean> hslist = (Set<Tbean>)request.getAttribute("listofteachers");  %>  <%  **if**(hslist!=**null**){      **for**(Tbean hashvar:hslist)  {  %>  <tr>  <td><%=hashvar.getTeacherName()%></td>  <td><%=hashvar.getTeacherSurname()%></td>  <%-- <td><%=hashvar.hashCode()%></td> --%>  <tr/>      <%    }    }    %>  <tr/>  <form/>  </body>  </html> |

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| View&EditAll.jsp |
| **Source Code** |
| <%@page import=*"bean.LoginBean"*%>  <%@page import=*"bean.LearnersBean"*%>  <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*      import=*"java.util.ArrayList"*  import=*" java.util.List"*  import = *"service.AdminService"*  import = *"dao.DaoLearners"*  import = *"bean.\*"*    %>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <form action=*"AdminServlet1"* method=*"get"*>  <h3 align=*"center"*> All Employee Details</h3>  <hr>  <%  DaoLearners learners = **new** DaoLearners();  List<LearnersBean> list = learners.getAll();  %>    <table align=*"center"* border=*"1"*>  <tr>  <td> Class</td>  <td> Subject</td>  <td> Teachers Name</td>  <td> Teachers Surname</td>  <td> Students Name</td>  <td> Students Surname</td>  <td colspan=*"2"*>Action</td>  <td><input type=*"button"* value=*"Edit"* name=*"buttedit"*></td>  <td><input type=*"button"* value=*"Delete"* name=*"buttdelete"*></a></td>  <tr/>        </body>  </html> |

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| ViewAllEmployeeDetails1.jsp |
| **Source Code** |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*      import=*"java.util.ArrayList"*  import=*" java.util.List"*  import = *"service.AdminService"*  import = *"bean.LearnersBean"*  import = *"bean.Cbean"*        %>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Insert title here</title>  </head>  <body>  <form action=*"AdminServlet1"* method=*"get"*>  <h3 align=*"center"*> All Employee Details</h3>  <hr>  <%    List<LearnersBean> list = (List<LearnersBean>)request.getAttribute("listofLearnerObj");  %>    <table align=*"center"* border=*""*>  <tr>  <td><button name=*"button"* value=*"subjectlist"* type= *"submit"* >Subjects' List</button></td>  <td><button name=*"button"* value=*"studentlist"* type= *"submit"* >Students' List</button></td>  <td><button name=*"button"* value=*"teacherlist"* type= *"submit"* >Teachers' List</button></td>  <td><button name=*"button"* value=*"classlist"* type= *"submit"* >Class List</button></td>  <td><button name=*"button"* value=*"logout"* type= *"submit"* >Sign Out</button></td>  <tr/>    <table/>    <br>        <table align=*"center"* border=*"1"*>  <tr>  <td> Class</td>  <td> Subject</td>  <td> Teacher Name</td>  <td> Teacher Surname</td>  <td> Student Name</td>  <td> Student Surname</td>  <td colspan=*"2"*>Action</td>  <tr/>          <tr>  <td><select name=*"classlist"*>  <%  **if** ( list == **null** || list.isEmpty())  {      List<Cbean> Clist = (List<Cbean>)request.getAttribute("listofClassListObj");  **for**(Cbean bean:Clist)  {  %>  <option value=*"*<%= bean.getClassName() %>*"*><%= bean.getClassName() %><option/>  <% } %>  </select> </td>  <td><input type=*"text"* value=*"Edit"* name=*"editsubject"*></td>  <td><input type=*"text"* value=*"Edit"* name=*"editteachname"*></td>  <td><input type=*"text"* value=*"Edit"* name=*"editteachsurname"*></td>  <td><input type=*"text"* value=*"Edit"* name=*editstudentname*></td>  <td><input type=*"text"* value=*"Edit"* name=*"editstudentsurname"*></td>  <td><input type=*"submit"* value = *"save"* name=*"button"*><td/>    <%-- <td><%= bean.getTeacherName() %></td>  <td><%= bean.getTeacherSurname() %></td>  <td><%= bean.getStudentName() %></td>  <td><%= bean.getStudentSurName() %></td>    <td><input type="button" value="Edit" name="buttedit"></td>  <td><input type="button" value="Delete" name="buttdelete"></td>  </tr> --%>    <%      }        **else** **if** (list!=**null**){      List<Cbean> Clist = (List<Cbean>)request.getAttribute("listofClassListObj");    **for**(LearnersBean bean:list)  {    %>  <tr>  <td><%=bean.getClassroom() %></td>    <td><%=bean.getSubject() %></td>    <td><%= bean.getTeacherName() %></td>  <td><%= bean.getTeacherSurname() %></td>  <td><%= bean.getStudentName() %></td>  <td><%= bean.getStudentSurName() %></td>        <td><button name=*"button"* value=*"Edit,*<%=bean.getStudentName()%>*,*<%=bean.getStudentSurName()%>*"* type= *"submit"* >Edit</button></td>  <td><button name=*"button"* value=*"Delete,*<%=bean.getStudentName()%>*,*<%=bean.getStudentSurName()%>*"* type=*"submit"*>Delete</button></td>    <!-- <td><input type="button" value="Delete" name="button" ></td> -->      <%-- <%  String button2value = request.getParameter("buttdelete");  if (button2value.equalsIgnoreCase("Delete"))  {  service.deleteProfile(bean.getEmpId());    }      %> --%>      <%    }    %>  <tr>  <td><select name=*"classlist"*>  <%  **for**(Cbean bean1:Clist)  {      %>  <option value=*"*<%= bean1.getClassName() %>*"*><%= bean1.getClassName() %><option/>  <% } %>  </select> </td>  <td><input type=*"text"* value=*"Edit"* name=*"editsubject"*></td>  <td><input type=*"text"* value=*"Edit"* name=*"editteachname"*></td>  <td><input type=*"text"* value=*"Edit"* name=*"editteachsurname"*></td>  <td><input type=*"text"* value=*"Edit"* name=*editstudentname*></td>  <td><input type=*"text"* value=*"Edit"* name=*"editstudentsurname"*></td>  <td><input type=*"submit"* value = *"save"* name=*"button"*><td/>  <tr/>  <%    }  %>        </table>    <br>  <br>  <h1> Session Details </h1>  <h2>< <%= session.getAttribute("sessiontime") %> ></h2>  </form>  </body>  </html> |

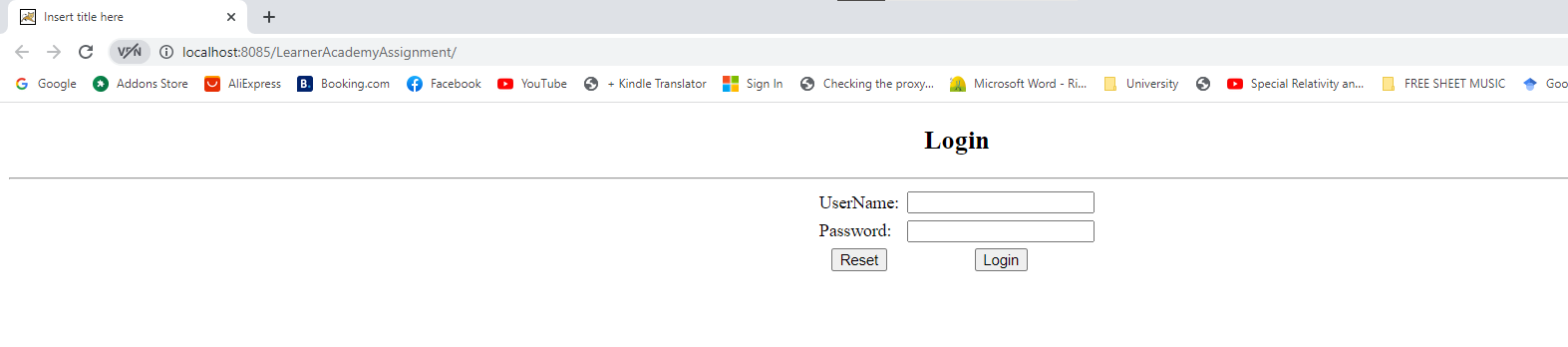


Figure Login page for Admin

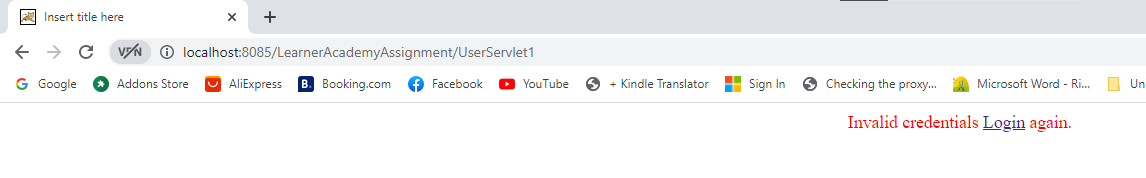


Figure Error message for failure to login with a<href> link to return to Login page.

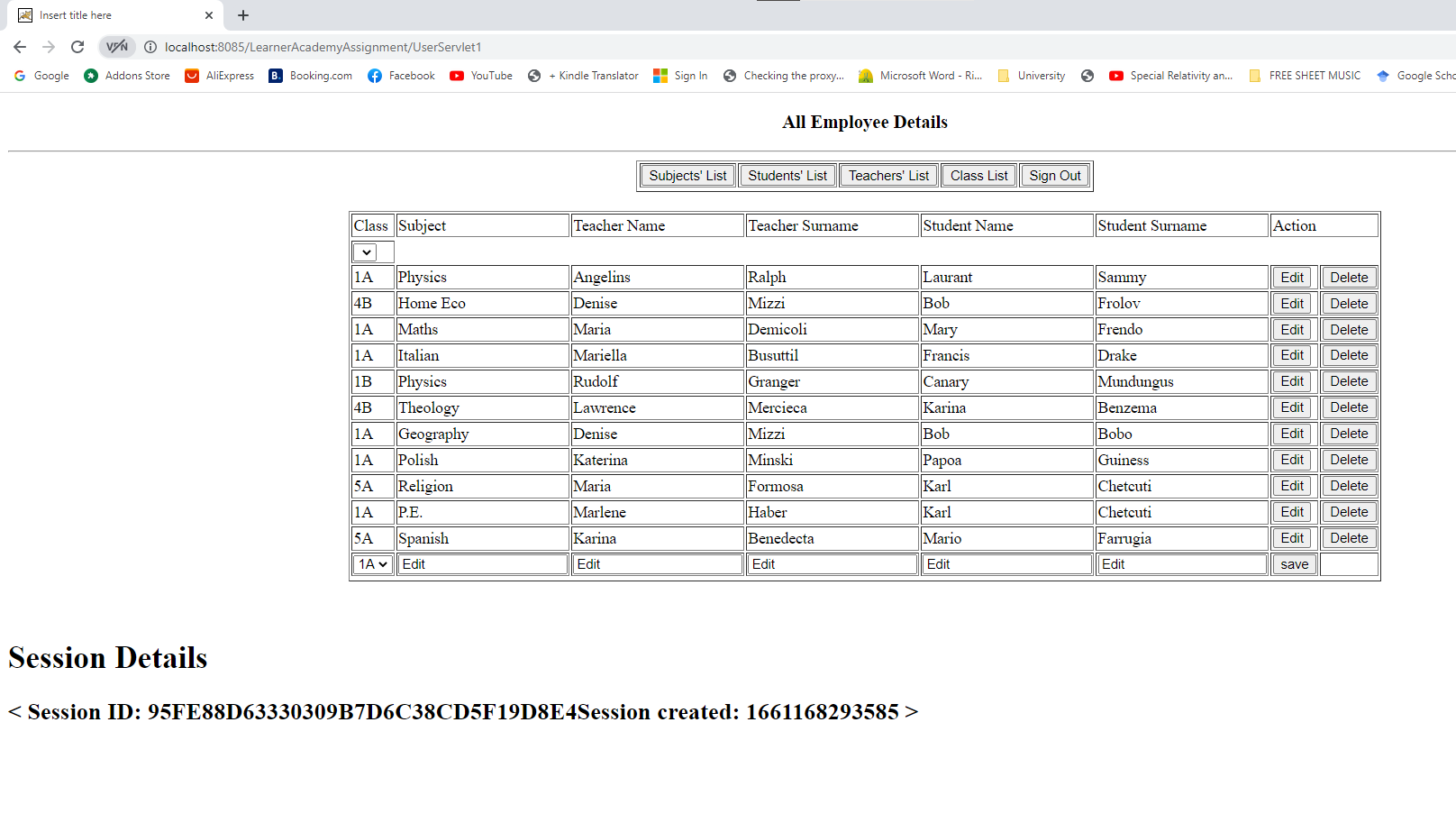


Figure Shows successful Login to application and red box to enter new details above.

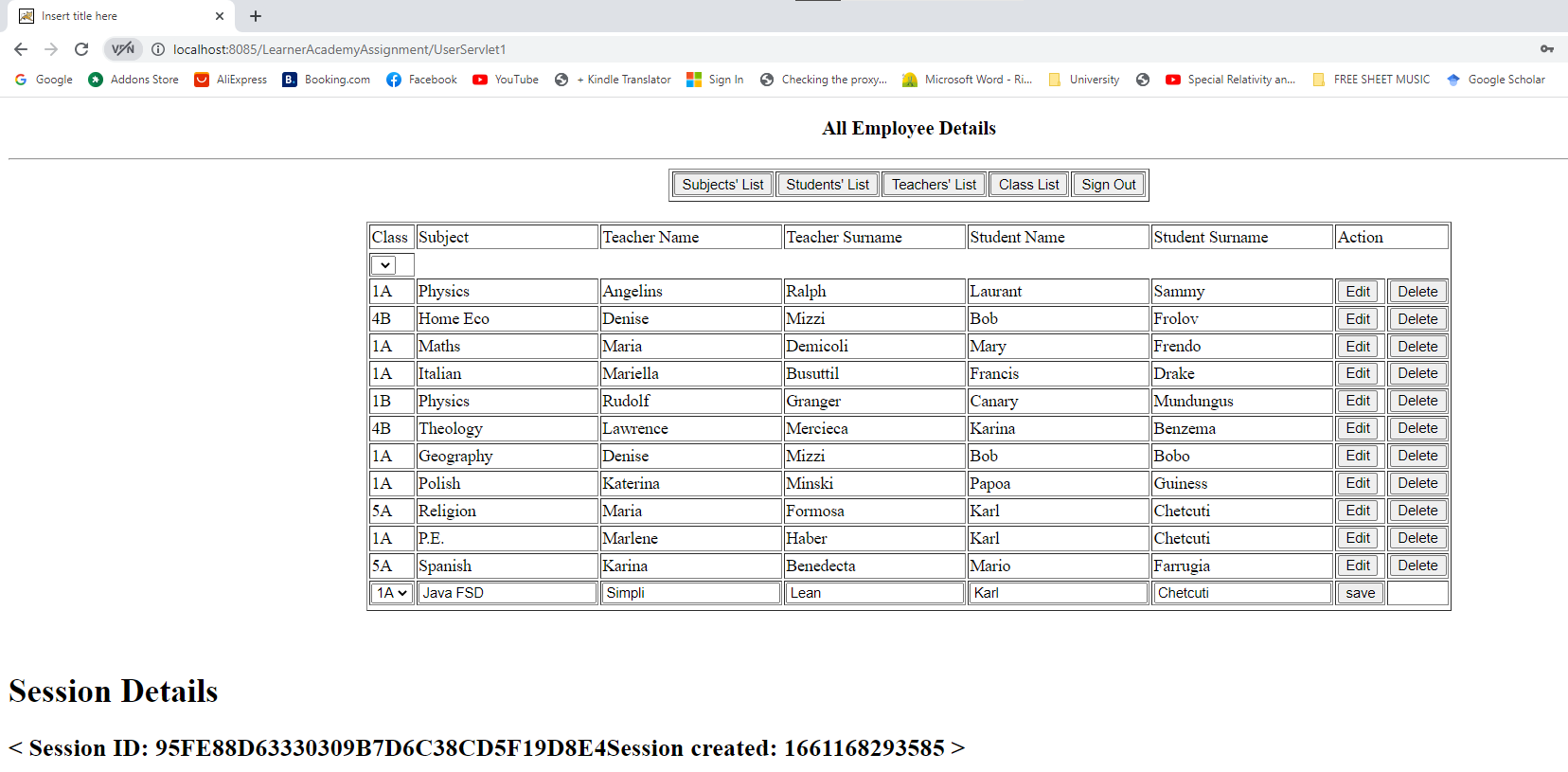


Figure shows new details entered into the application. This will be saved.

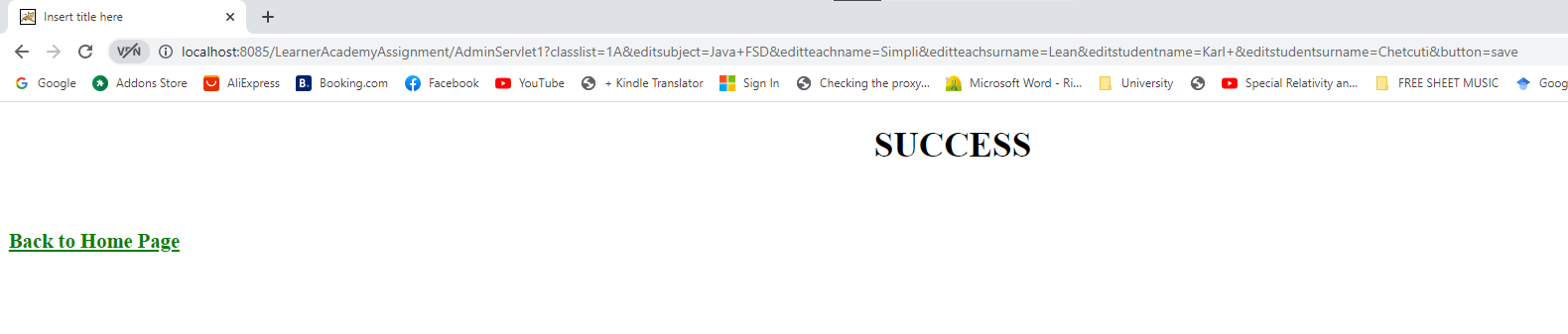


Figure showed that details have been saved successfuly.

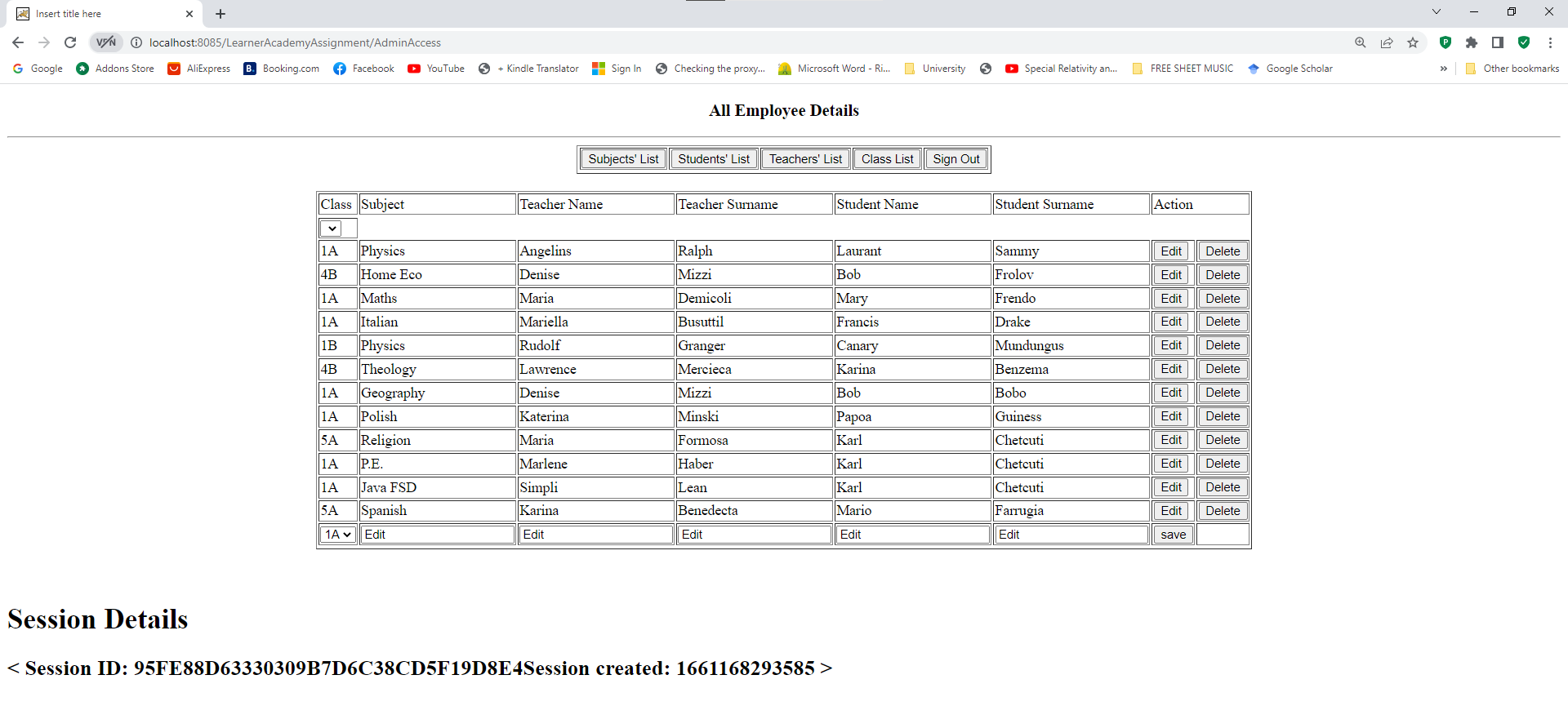


Figure shows details saved in database in red, object in green will be edited.

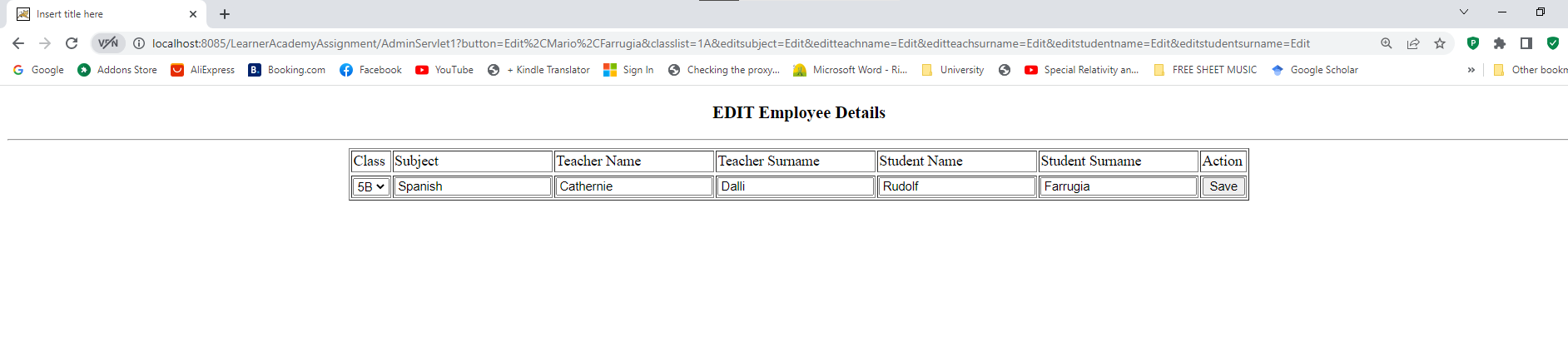


Figure Shows editing of details which will be saved shortly.

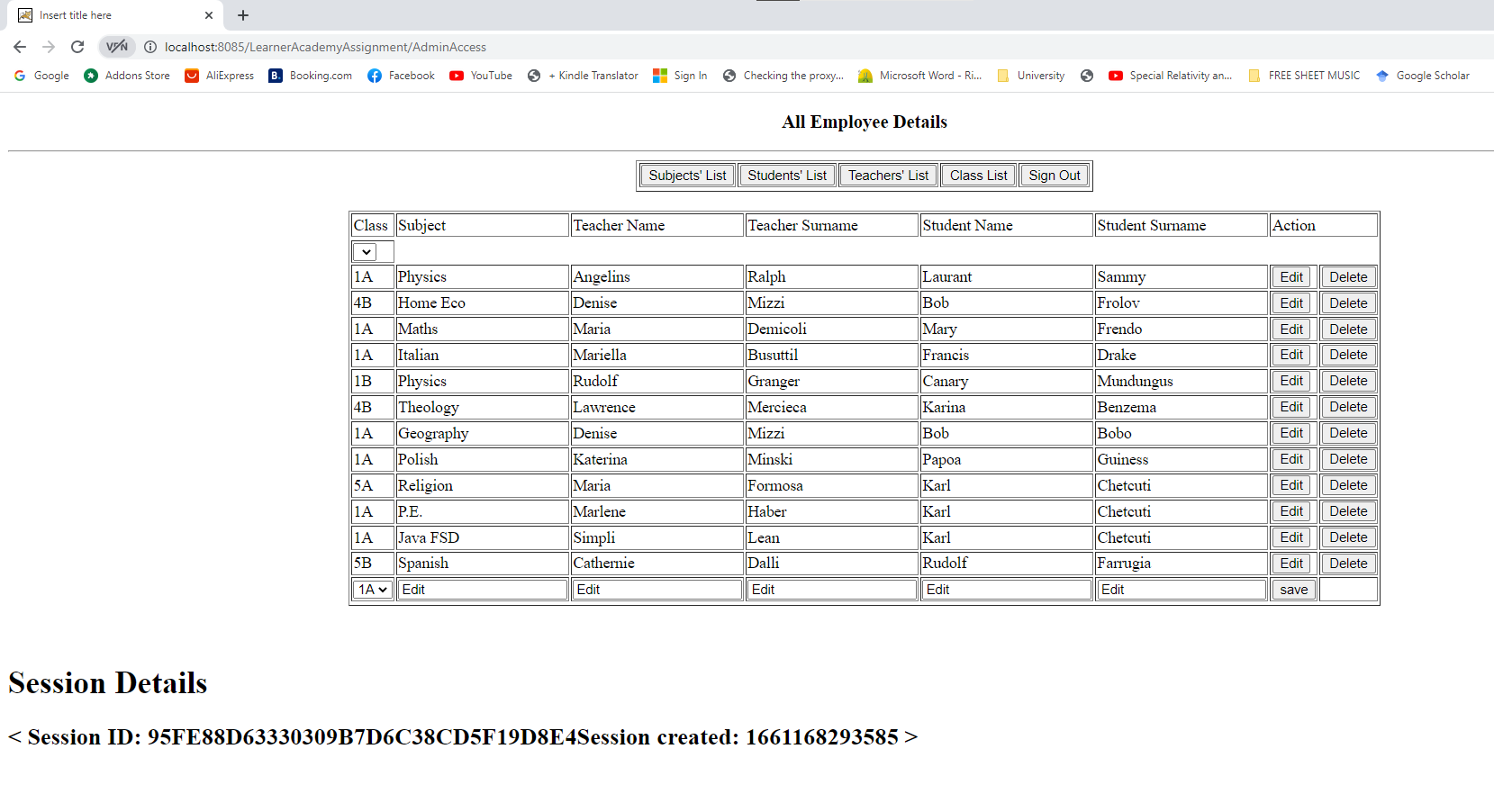


Figure Shows that edited details in green have been saved successfully to database whereas detail in **purple** will be deleted.

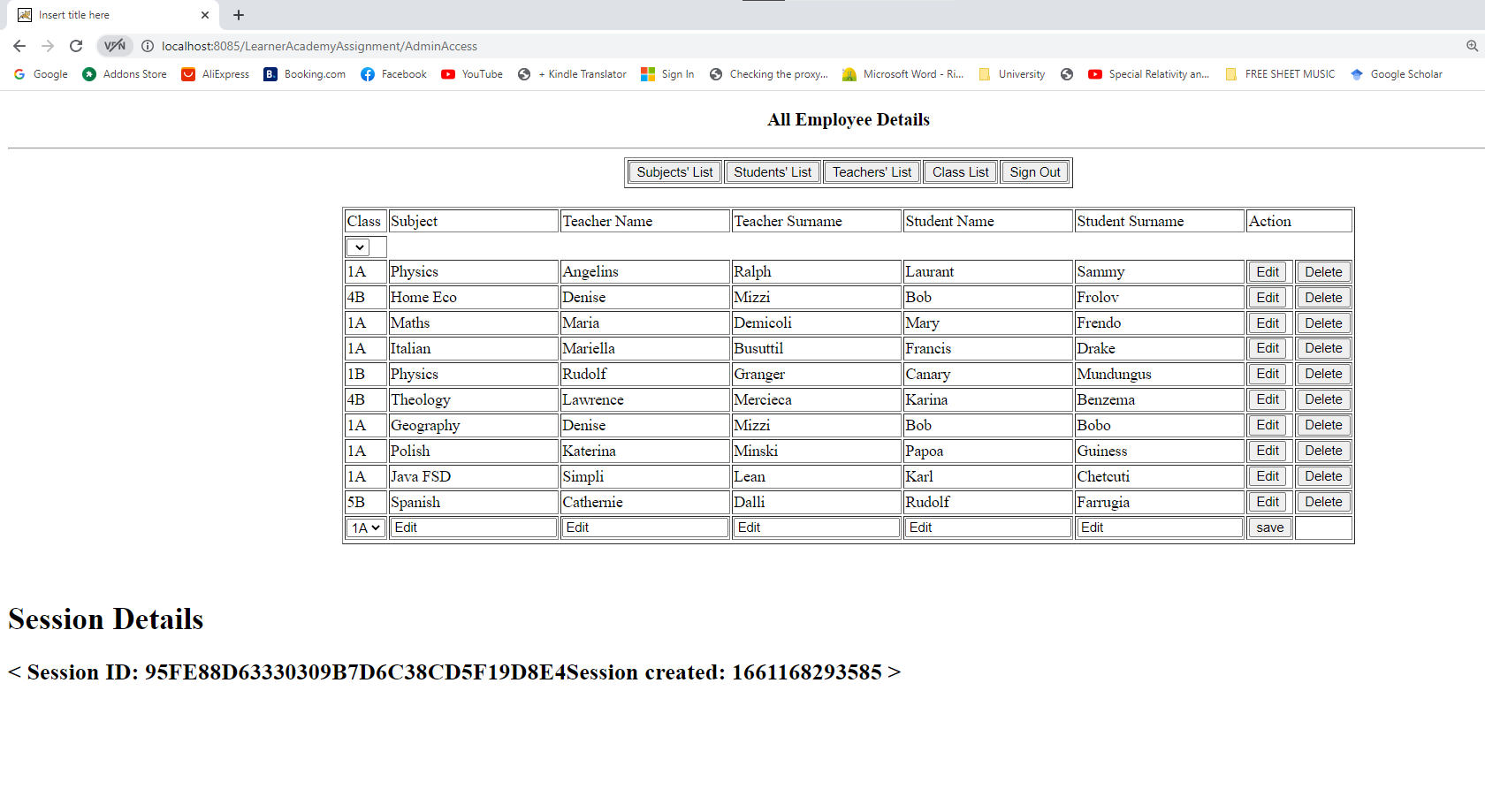


Figure shows that subject religion has been deleted successfully. The buttons in a **blue** box above will now be pressed.

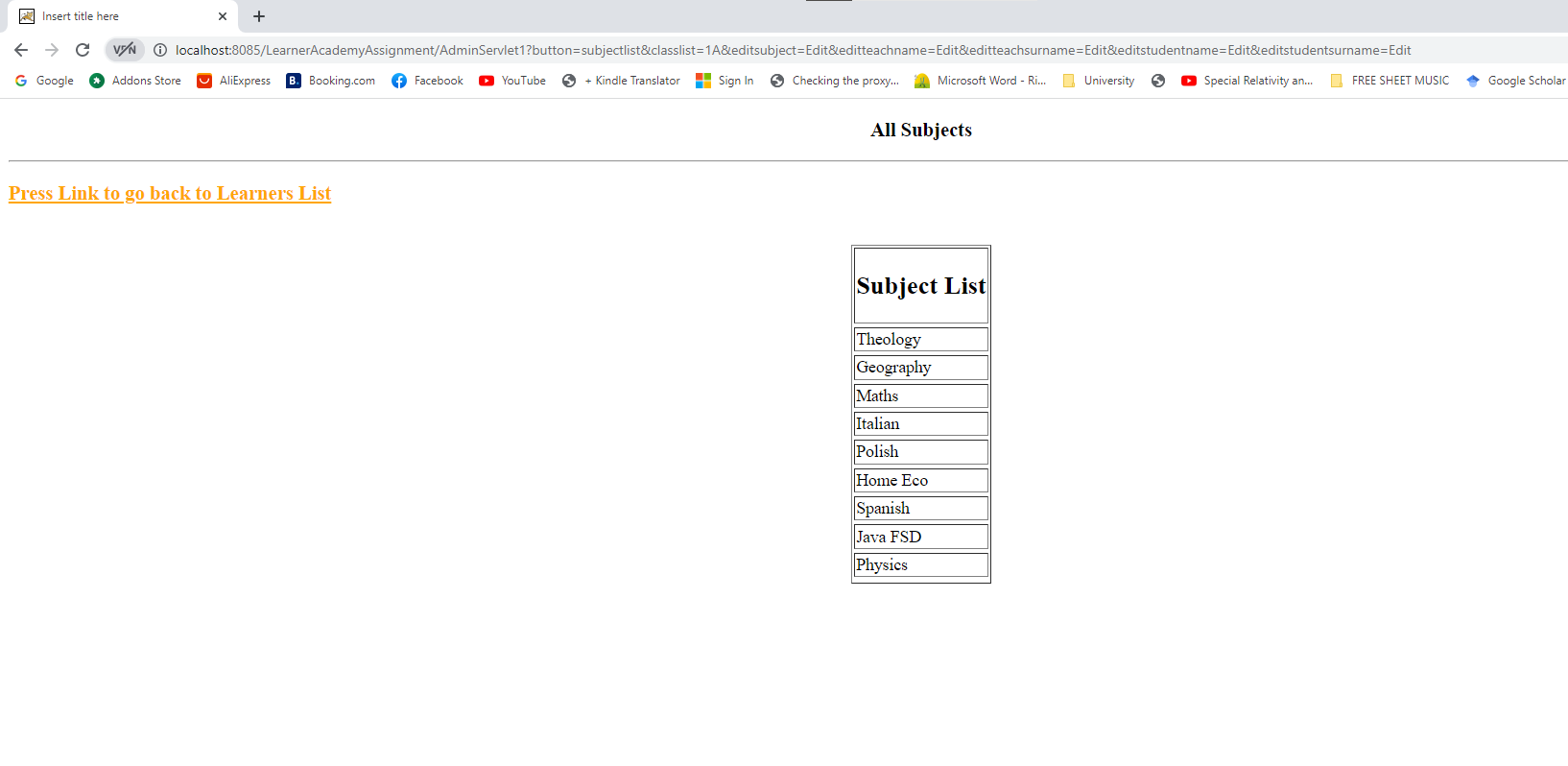


Figure shows subject List where new entry **Java FSD** can be seen.

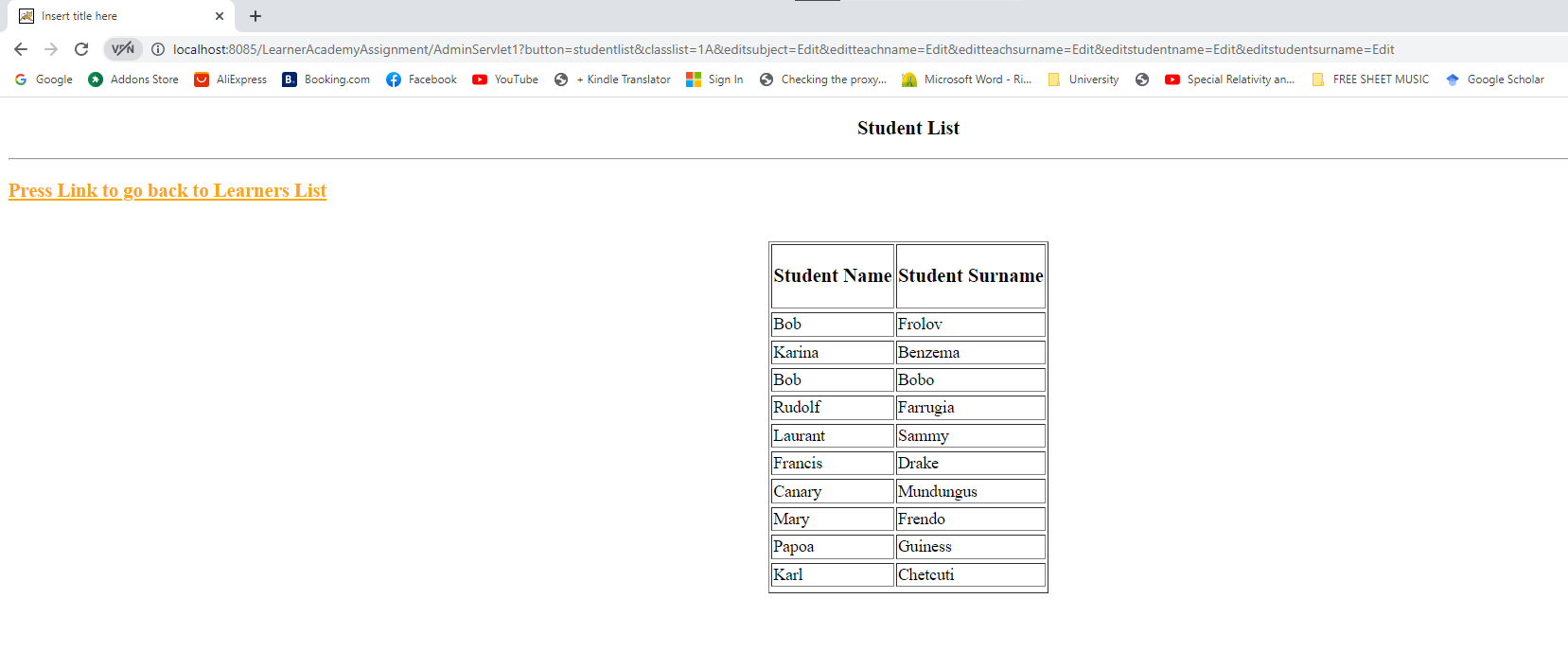


Figure Shows the student List.

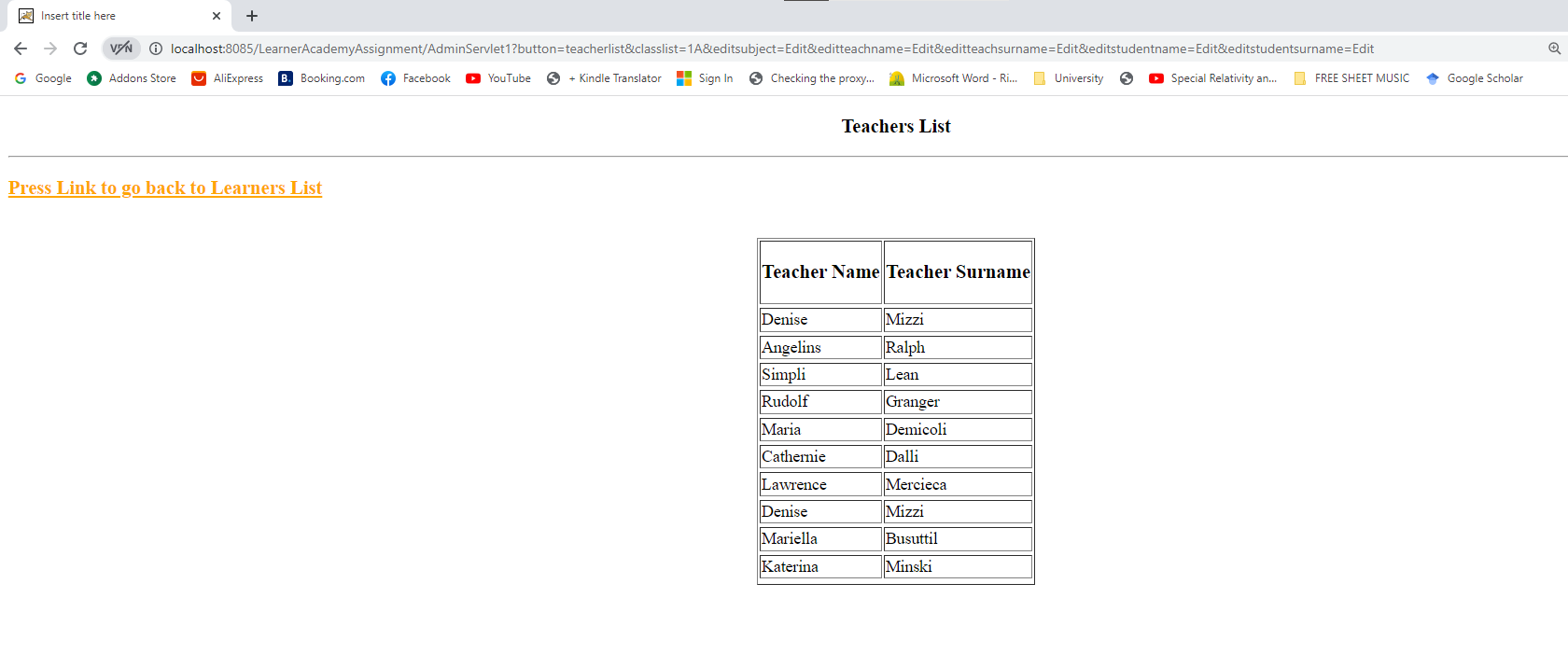


Figure Shows Teacher's List.

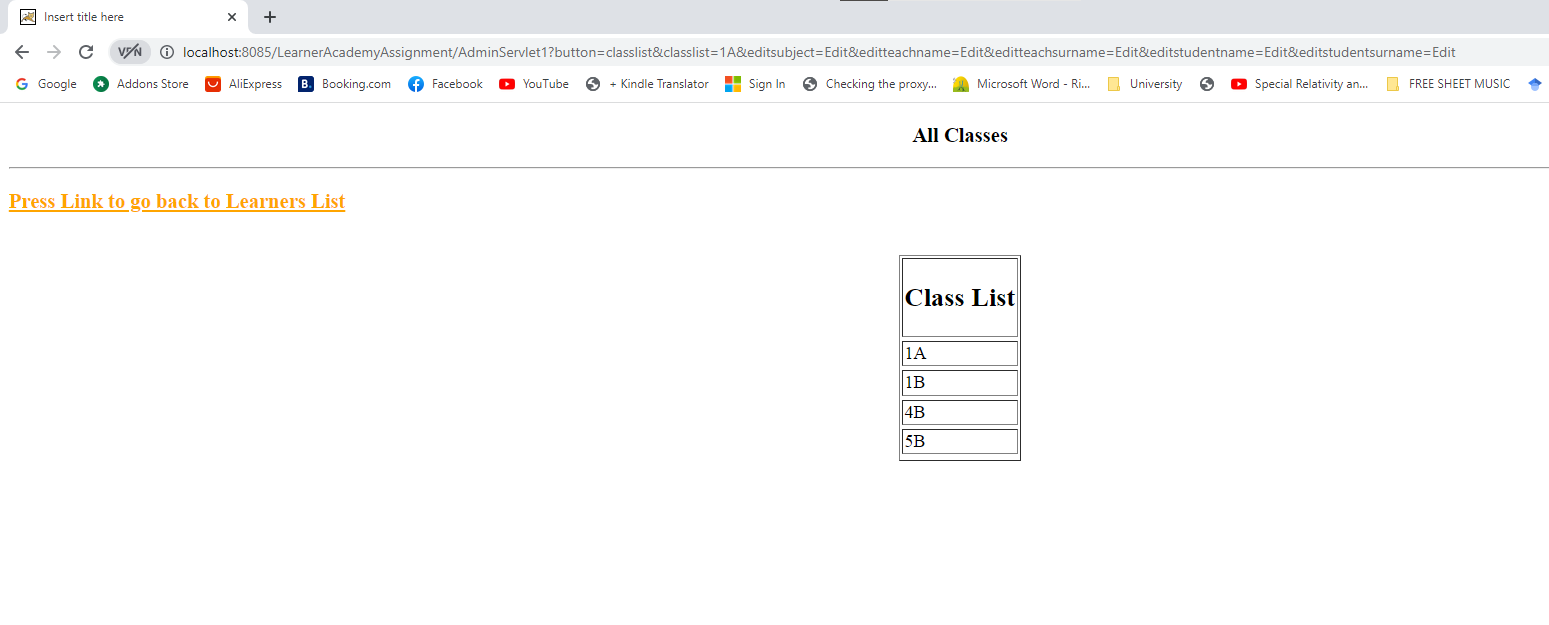


Figure Shows Class List.

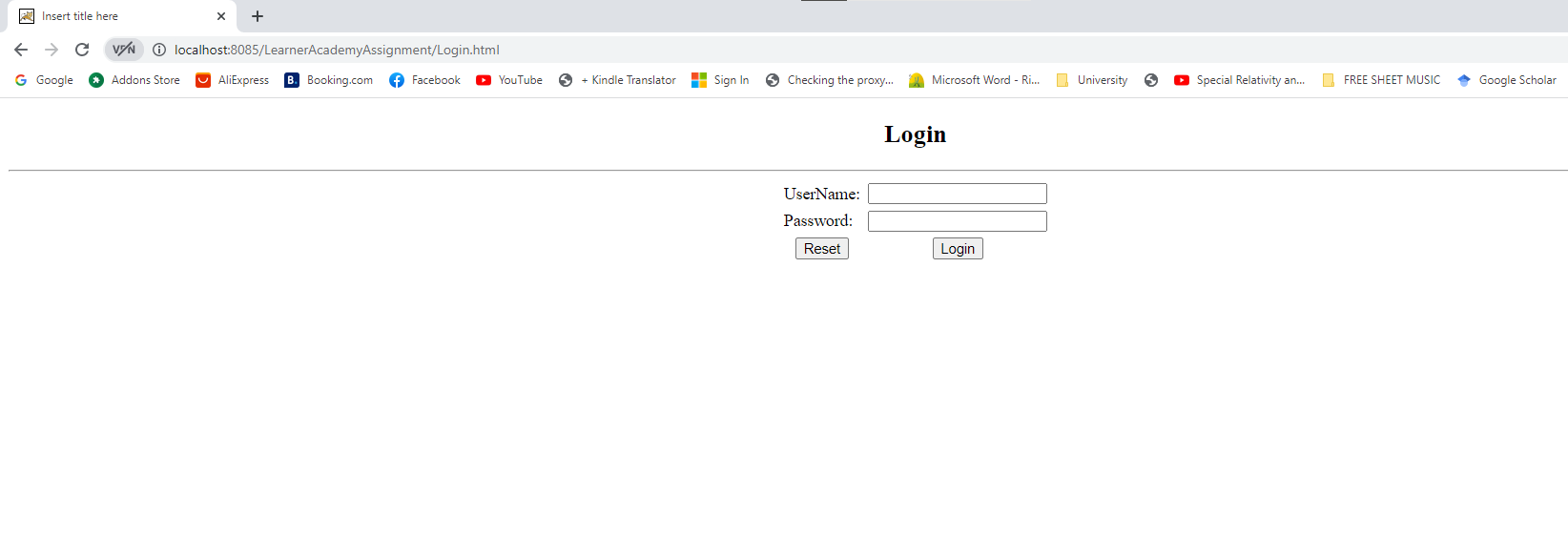


Figure Shows that Sign out button terminates the session