**Project: Cheap o Flights (cheapoflights.com)**

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| **Developer** | **JJ** |
| **Purpose** | **Project Screenshot** |
| **Date** | **Aug 28, 2021** |
| **Version** | **1.0** |

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1. **Git Repository details.**

[**https://github.com/shailyjeet/fsd/tree/main/Cheap\_o\_flights**](https://github.com/shailyjeet/fsd/tree/main/Cheap_o_flights)

1. **Code Walkthrough** 
   1. AdminServlet.java

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| package com.code.web.jdbc;  import java.io.IOException;  import java.sql.\*;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  import javax.servlet.http.HttpSession;  @WebServlet("/AdminServlet")  public class AdminServlet extends HttpServlet {  /\*\*  \*  \*/  private static final long serialVersionUID = 1L;  protected void doGet(HttpServletRequest request, HttpServletResponse response)  throws ServletException, IOException {  doPost(request, response);  }  public void doPost(HttpServletRequest req, HttpServletResponse res) throws IOException {  try {  String userid = req.getParameter("userid");  String password = req.getParameter("password");  HttpSession session = req.getSession();  session.setAttribute("userid", userid);  Class.forName("com.mysql.cj.jdbc.Driver");  Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/cheap\_o\_fly", "cheap\_o\_user",  "cheap\_o\_pass");  Statement st = con.createStatement();  ResultSet rs = st.executeQuery(  "select \* from admin where Username='" + userid + "' and Password='" + password + "'");  if (rs.next()) {  res.sendRedirect("Admin.jsp");  } else {  res.sendRedirect("AdminPage.jsp");  }  } catch (ClassNotFoundException | SQLException e) {  // TODO Auto-generated catch block  e.printStackTrace();  }  }  } |

* 1. **Checkout.java**

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| package com.code.web.jdbc;  import java.io.IOException;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  import javax.servlet.http.HttpSession;  @WebServlet("/Checkout")  public class Checkout extends HttpServlet {  /\*\*  \*  \*/  private static final long serialVersionUID = 1L;  protected void doGet(HttpServletRequest request, HttpServletResponse response)  throws ServletException, IOException {  doPost(request, response);  }  public void doPost(HttpServletRequest req, HttpServletResponse res) throws IOException {  String cardname = req.getParameter("cardname");  String cardno = req.getParameter("cardno");  String cvv = req.getParameter("cvv");  String cardholdername = req.getParameter("cardholdername");  String phone = req.getParameter("phone");  String email = req.getParameter("email");  HttpSession session = req.getSession();  session.setAttribute("cardname", cardname);  session.setAttribute("cardno", cardno);  session.setAttribute("cvv", cvv);  session.setAttribute("cardholdername", cardholdername);  res.sendRedirect("ReceiptPage.jsp");  }  } |

* 1. **ControllerServlet.java**

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| **package com.code.web.jdbc;**  **import java.io.IOException;**  **import java.util.List;**  **import javax.annotation.Resource;**  **import javax.servlet.RequestDispatcher;**  **import javax.servlet.ServletException;**  **import javax.servlet.annotation.WebServlet;**  **import javax.servlet.http.HttpServlet;**  **import javax.servlet.http.HttpServletRequest;**  **import javax.servlet.http.HttpServletResponse;**  **import javax.sql.DataSource;**  **@WebServlet("/ControllerServlet")**  **public class ControllerServlet extends HttpServlet {**  **private static final long serialVersionUID = 1L;**  **private DbUtil DbUtil;**  **@Resource(name = "jdbc/cheap\_o\_fly")**  **private DataSource dataSource;**  **@Override**  **public void init() throws ServletException {**  **super.init();**  **// create our student db util ... and pass in the conn pool / datasource**  **try {**  **DbUtil = new DbUtil(dataSource);**  **} catch (Exception exc) {**  **throw new ServletException(exc);**  **}**  **}**  **protected void doGet(HttpServletRequest request, HttpServletResponse response)**  **throws ServletException, IOException {**  **try {**  **// read the "command" parameter**  **String theCommand = request.getParameter("command");**  **// if the command is missing, then default to listing students**  **if (theCommand == null) {**  **theCommand = "LIST";**  **}**  **// route to the appropriate method**  **switch (theCommand) {**  **case "LIST":**  **listFlights(request, response);**  **break;**  **case "ADD":**  **addFlight(request, response);**  **break;**  **case "LOAD":**  **loadFlight(request, response);**  **break;**  **case "UPDATE":**  **updateFlight(request, response);**  **break;**  **case "DELETE":**  **deleteFlight(request, response);**  **break;**  **default:**  **listFlights(request, response);**  **}**  **} catch (Exception exc) {**  **throw new ServletException(exc);**  **}**  **}**  **private void deleteFlight(HttpServletRequest request, HttpServletResponse response) throws Exception {**  **// read flight id from form data**  **String theFlightId = request.getParameter("flightId");**  **// delete flight from database**  **DbUtil.deleteFlight(theFlightId);**  **// send them back to "list flights" page**  **listFlights(request, response);**  **}**  **private void updateFlight(HttpServletRequest request, HttpServletResponse response) throws Exception {**  **// read flight info from form data**  **int flight\_id = Integer.parseInt(request.getParameter("flightId"));**  **String name = request.getParameter("name");**  **String source = request.getParameter("source");**  **String destination = request.getParameter("destination");**  **String email = request.getParameter("email");**  **String day = request.getParameter("day");**  **float ticket\_price = Float.parseFloat(request.getParameter("ticket\_price"));**  **// create a new student object**  **Flight theFlight = new Flight(flight\_id, name, source, destination, email, day, ticket\_price);**  **// perform update on database**  **DbUtil.updateFlight(theFlight);**  **// send them back to the "list students" page**  **listFlights(request, response);**  **}**  **private void loadFlight(HttpServletRequest request, HttpServletResponse response) throws Exception {**  **// read student id from form data**  **String theFlightId = request.getParameter("flightId");**  **// get student from database (db util)**  **Flight theFlight = DbUtil.getFlight(theFlightId);**  **// place student in the request attribute**  **request.setAttribute("THE\_FLIGHT", theFlight);**  **// send to jsp page: update-student-form.jsp**  **RequestDispatcher dispatcher = request.getRequestDispatcher("/update-flight-form.jsp");**  **dispatcher.forward(request, response);**  **}**  **private void addFlight(HttpServletRequest request, HttpServletResponse response) throws Exception {**  **// read flight info from form data**  **String name = request.getParameter("name");**  **String source = request.getParameter("source");**  **String destination = request.getParameter("destination");**  **String email = request.getParameter("email");**  **String day = request.getParameter("day");**  **float ticket\_price = Float.parseFloat(request.getParameter("ticket\_price"));**  **// create a new flight object**  **Flight theFlight = new Flight(name, source, destination, email, day, ticket\_price);**  **// add the student to the database**  **DbUtil.addFlight(theFlight);**  **// send back to main page (the student list)**  **listFlights(request, response);**  **}**  **private void listFlights(HttpServletRequest request, HttpServletResponse response) throws Exception {**  **// get flights from db util**  **List<Flight> flights = DbUtil.getFlights();**  **// add flights to the request**  **request.setAttribute("FLIGHT\_LIST", flights);**  **// send to JSP page (view)**  **RequestDispatcher dispatcher = request.getRequestDispatcher("/list-flights.jsp");**  **dispatcher.forward(request, response);**  **}**  **}** |

* 1. **Customerdetail.java**

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| --- |
| **package com.code.web.jdbc;**  **import java.io.IOException;**  **import javax.servlet.ServletException;**  **import javax.servlet.annotation.WebServlet;**  **import javax.servlet.http.HttpServlet;**  **import javax.servlet.http.HttpServletRequest;**  **import javax.servlet.http.HttpServletResponse;**  **import javax.servlet.http.HttpSession;**  **@WebServlet("/Customerdetail")**  **public class Customerdetail extends HttpServlet {**  **/\*\***  **\***  **\*/**  **private static final long serialVersionUID = 1L;**  **protected void doGet(HttpServletRequest request, HttpServletResponse response)**  **throws ServletException, IOException {**  **doPost(request, response);**  **}**  **public void doPost(HttpServletRequest req, HttpServletResponse res) throws IOException {**  **String passengername = req.getParameter("passenger");**  **String email = req.getParameter("email");**  **String mobileno = req.getParameter("mobileno");**  **HttpSession session = req.getSession();**  **session.setAttribute("passengername", passengername);**  **session.setAttribute("email", email);**  **session.setAttribute("mobileno", mobileno);**  **// System.out.println("Please wait... Proceeding to Checkout");**  **res.sendRedirect("Checkout.jsp");**  **}**  **}** |

* 1. **DbUtil.java**

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| --- |
| package com.code.web.jdbc;  import java.sql.Connection;  import java.sql.PreparedStatement;  import java.sql.ResultSet;  import java.sql.Statement;  import java.util.ArrayList;  import java.util.List;  import javax.sql.DataSource;  public class DbUtil {  private DataSource dataSource;  public DbUtil(DataSource theDataSource) {  dataSource = theDataSource;  }  public List<Flight> getFlights() throws Exception {  List<Flight> flights = new ArrayList<>();  Connection myConn = null;  Statement myStmt = null;  ResultSet myRs = null;  try {  // get a connection  myConn = dataSource.getConnection();  // create sql statement  String sql = "select \* from flights order by Flight\_id";  myStmt = myConn.createStatement();  // execute query  myRs = myStmt.executeQuery(sql);  // process result set  while (myRs.next()) {  // retrieve data from result set row  int flight\_id = myRs.getInt("Flight\_id");  String name = myRs.getString("Name");  String source = myRs.getString("Source");  String destination = myRs.getString("Destination");  String email = myRs.getString("email");  String day = myRs.getString("To\_Day");  float ticket\_price = myRs.getFloat("Ticket\_Price");  // create new student object  Flight tempFlight = new Flight(flight\_id, name, source, destination, email, day, ticket\_price);  // add it to the list of students  flights.add(tempFlight);  }  return flights;  } finally {  // close JDBC objects  close(myConn, myStmt, myRs);  }  }  private void close(Connection myConn, Statement myStmt, ResultSet myRs) {  try {  if (myRs != null) {  myRs.close();  }  if (myStmt != null) {  myStmt.close();  }  if (myConn != null) {  myConn.close(); // doesn't really close it ... just puts back in connection pool  }  } catch (Exception exc) {  exc.printStackTrace();  }  }  public void addFlight(Flight theFlight) throws Exception {  Connection myConn = null;  PreparedStatement myStmt = null;  try {  // get db connection  myConn = dataSource.getConnection();  // create sql for insert  String sql = "insert into flights " + "(Name, Source, Destination,email,To\_Day,Ticket\_Price) "  + "values (?, ?, ? , ?, ?, ?)";  myStmt = myConn.prepareStatement(sql);  // set the param values for the student  myStmt.setString(1, theFlight.getName());  myStmt.setString(2, theFlight.getSource());  myStmt.setString(3, theFlight.getDestination());  myStmt.setString(4, theFlight.getEmail());  myStmt.setString(5, theFlight.getDay());  myStmt.setFloat(6, theFlight.getTicket\_price());  // execute sql insert  myStmt.execute();  } finally {  // clean up JDBC objects  close(myConn, myStmt, null);  }  }  public Flight getFlight(String theFlightId) throws Exception {  Flight theFlight = null;  Connection myConn = null;  PreparedStatement myStmt = null;  ResultSet myRs = null;  int flightId;  try {  // convert student id to int  flightId = Integer.parseInt(theFlightId);  // get connection to database  myConn = dataSource.getConnection();  // create sql to get selected student  String sql = "select \* from flights where Flight\_id=?";  // create prepared statement  myStmt = myConn.prepareStatement(sql);  // set params  myStmt.setInt(1, flightId);  // execute statement  myRs = myStmt.executeQuery();  // retrieve data from result set row  if (myRs.next()) {  String name = myRs.getString("Name");  String source = myRs.getString("Source");  String destination = myRs.getString("Destination");  String email = myRs.getString("email");  String day = myRs.getString("To\_Day");  Float ticket\_price = myRs.getFloat("Ticket\_Price");  // use the flightId during construction  theFlight = new Flight(flightId, name, source, destination, email, day, ticket\_price);  } else {  throw new Exception("Could not find student id: " + flightId);  }  return theFlight;  } finally {  // clean up JDBC objects  close(myConn, myStmt, myRs);  }  }  public void updateFlight(Flight theFlight) throws Exception {  Connection myConn = null;  PreparedStatement myStmt = null;  try {  // get db connection  myConn = dataSource.getConnection();  // create SQL update statement  String sql = "update flights " + "set Name=?, Source=?, Destination=?, email=?, To\_Day=?, Ticket\_Price=? "  + "where Flight\_id=?";  // prepare statement  myStmt = myConn.prepareStatement(sql);  // set params  myStmt.setString(1, theFlight.getName());  myStmt.setString(2, theFlight.getSource());  myStmt.setString(3, theFlight.getDestination());  myStmt.setString(4, theFlight.getEmail());  myStmt.setString(5, theFlight.getDay());  myStmt.setFloat(6, theFlight.getTicket\_price());  myStmt.setInt(7, theFlight.getFlight\_id());  // execute SQL statement  myStmt.execute();  } finally {  // clean up JDBC objects  close(myConn, myStmt, null);  }  }  public void deleteFlight(String theFlightId) throws Exception {  Connection myConn = null;  PreparedStatement myStmt = null;  try {  // convert student id to int  int flightId = Integer.parseInt(theFlightId);  // get connection to database  myConn = dataSource.getConnection();  // create sql to delete student  String sql = "delete from flights where Flight\_id=?";  // prepare statement  myStmt = myConn.prepareStatement(sql);  // set params  myStmt.setInt(1, flightId);  // execute sql statement  myStmt.execute();  } finally {  // clean up JDBC code  close(myConn, myStmt, null);  }  }  } |

* 1. **Flight.java**

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| **package** com.code.web.jdbc;  **public** **class** Flight {  **private** **int** flight\_id;  **private** String name;  **private** String source;  **private** String destination;  **private** String email;  **private** String day;  **private** **float** ticket\_price;  **public** Flight(String name, String source, String destination, String email, String day, **float** ticket\_price) {  **super**();  **this**.name = name;  **this**.source = source;  **this**.destination = destination;  **this**.email = email;  **this**.day = day;  **this**.ticket\_price = ticket\_price;  }  **public** Flight(**int** flight\_id, String name, String source, String destination, String email, String day,  **float** ticket\_price) {  **super**();  **this**.flight\_id = flight\_id;  **this**.name = name;  **this**.source = source;  **this**.destination = destination;  **this**.email = email;  **this**.day = day;  **this**.ticket\_price = ticket\_price;  }  **public** **int** getFlight\_id() {  **return** flight\_id;  }  **public** **void** setFlight\_id(**int** flight\_id) {  **this**.flight\_id = flight\_id;  }  **public** String getName() {  **return** name;  }  **public** **void** setName(String name) {  **this**.name = name;  }  **public** String getSource() {  **return** source;  }  **public** **void** setSource(String source) {  **this**.source = source;  }  **public** String getDestination() {  **return** destination;  }  **public** **void** setDestination(String destination) {  **this**.destination = destination;  }  **public** String getEmail() {  **return** email;  }  **public** **void** setEmail(String email) {  **this**.email = email;  }  **public** String getDay() {  **return** day;  }  **public** **void** setDay(String day) {  **this**.day = day;  }  **public** **float** getTicket\_price() {  **return** ticket\_price;  }  **public** **void** setTicket\_price(**float** ticket\_price) {  **this**.ticket\_price = ticket\_price;  }  @Override  **public** String toString() {  **return** "Flight [flight\_id=" + flight\_id + ", name=" + name + ", source=" + source + ", destination="  + destination + ", email=" + email + ", day=" + day + ", ticket\_price=" + ticket\_price + "]";  }  } |

* 1. **StartServlet.java**

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| --- |
| package com.code.web.jdbc;  import java.io.IOException;  import java.sql.Connection;  import java.sql.DriverManager;  import java.sql.ResultSet;  import java.sql.SQLException;  import java.sql.Statement;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  import javax.servlet.http.HttpSession;  /\*\*  \* Servlet implementation class StartServlet  \*/  @WebServlet("/StartServlet")  public class StartServlet extends HttpServlet {  private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public StartServlet() {  super();  }  /\*\*  \* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse  \* response)  \*/  protected void doGet(HttpServletRequest request, HttpServletResponse response)  throws ServletException, IOException {  doPost(request, response);  }  /\*\*  \* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse  \* response)  \*/  protected void doPost(HttpServletRequest request, HttpServletResponse response)  throws ServletException, IOException {  response.sendRedirect("HomePage.jsp");  }  } |

* 1. **Ticketbooking.java**

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| --- |
| package com.code.web.jdbc;  import java.io.IOException;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  import javax.servlet.http.HttpSession;  @WebServlet("/Ticketbooking")  public class Ticketbooking extends HttpServlet {  /\*\*  \*  \*/  private static final long serialVersionUID = 1L;  protected void doGet(HttpServletRequest request, HttpServletResponse response)  throws ServletException, IOException {  doPost(request, response);  }  public void doPost(HttpServletRequest req, HttpServletResponse res) throws IOException {  String source = req.getParameter("source");  String destination = req.getParameter("destination");  String seats = req.getParameter("seats");  String date = req.getParameter("date");  String year = date.substring(0, 4);  String month = date.substring(5, 7);  String date1 = date.substring(8, 10);  System.out.println(source + " " + destination + " " + seats + " " + date);  System.out.println(year + " " + month + " " + date1);  int lasttwoofyear = Integer.parseInt(year.substring(2, 4));  int divbyfour = lasttwoofyear / 4;  int date2 = Integer.parseInt(date1);  int year2 = 6;  int month1 = Integer.parseInt(month);  int month2 = 0;  int total = 0;  int resultday = 0;  String Day = null;  switch (month1) {  case 1: {  month2 = 0;  break;  }  case 2: {  month2 = 3;  break;  }  case 3: {  month2 = 0;  break;  }  case 4: {  month2 = 6;  break;  }  case 5: {  month2 = 1;  break;  }  case 6: {  month2 = 4;  break;  }  case 7: {  month2 = 6;  break;  }  case 8: {  month2 = 2;  break;  }  case 9: {  month2 = 5;  break;  }  case 10: {  month2 = 0;  break;  }  case 11: {  month2 = 3;  break;  }  case 12: {  month2 = 5;  break;  }  }  total = lasttwoofyear + divbyfour + date2 + year2 + month1;  resultday = (total + 2) % 7;  // System.out.println(resultday);  switch (resultday) {  case 0: {  Day = "SUNDAY";  break;  }  case 1: {  Day = "MONDAY";  break;  }  case 2: {  Day = "TUESDAY";  break;  }  case 3: {  Day = "WEDNESDAY";  break;  }  case 4: {  Day = "THURSDAY";  break;  }  case 5: {  Day = "FRIDAY";  break;  }  case 6: {  Day = "SATURDAY";  break;  }  }  HttpSession session = req.getSession();  session.setAttribute("source", source);  session.setAttribute("destination", destination);  session.setAttribute("seats", seats);  session.setAttribute("date", date);  session.setAttribute("day", Day);  System.out.print("The day of the week is " + Day);  res.sendRedirect(  "ResultFlights.jsp?day=" + Day + " " + source + " " + destination + " " + seats + " " + date + "");  }  } |

* 1. **UserControllerServlet.java**

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| --- |
| package com.code.web.jdbc;  import java.io.IOException;  import java.util.List;  import javax.annotation.Resource;  import javax.servlet.RequestDispatcher;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  import javax.sql.DataSource;  @WebServlet("/UserControllerServlet")  public class UserControllerServlet extends HttpServlet {  private static final long serialVersionUID = 1L;  private UsersDbUtil usersDbUtil;  @Resource(name = "jdbc/cheap\_o\_fly")  private DataSource dataSource;  @Override  public void init() throws ServletException {  super.init();  // create our user db util ... and pass in the conn pool / datasource  try {  usersDbUtil = new UsersDbUtil(dataSource);  } catch (Exception exc) {  throw new ServletException(exc);  }  }  protected void doGet(HttpServletRequest request, HttpServletResponse response)  throws ServletException, IOException {  try {  // read the "command" parameter  String theCommand = request.getParameter("command");  // if the command is missing, then default to listing students  if (theCommand == null) {  theCommand = "LIST";  }  // route to the appropriate method  switch (theCommand) {  case "LIST":  listUsers(request, response);  break;  case "ADD":  addUser(request, response);  break;  case "LOAD":  loadUser(request, response);  break;  case "UPDATE":  updateUser(request, response);  break;  case "DELETE":  deleteUser(request, response);  break;  default:  listUsers(request, response);  }  } catch (Exception exc) {  throw new ServletException(exc);  }  }  private void deleteUser(HttpServletRequest request, HttpServletResponse response) throws Exception {  // read flight id from form data  String theAdminId = request.getParameter("adminId");  // delete flight from database  usersDbUtil.deleteUser(theAdminId);  // send them back to "list flights" page  listUsers(request, response);  }  private void updateUser(HttpServletRequest request, HttpServletResponse response) throws Exception {  // read flight info from form data  int adminid = Integer.parseInt(request.getParameter("adminId"));  String username = request.getParameter("username");  String password = request.getParameter("password");  // create a new student object  Users theUser = new Users(adminid, username, password);  // perform update on database  usersDbUtil.updateUser(theUser);  // send them back to the "list students" page  listUsers(request, response);  }  private void loadUser(HttpServletRequest request, HttpServletResponse response) throws Exception {  // read student id from form data  String theAdmintId = request.getParameter("adminId");  // get student from database (db util)  Users theUser = usersDbUtil.getUser(theAdmintId);  // place student in the request attribute  request.setAttribute("THE\_USER", theUser);  // send to jsp page: update-student-form.jsp  RequestDispatcher dispatcher = request.getRequestDispatcher("/update-user-form.jsp");  dispatcher.forward(request, response);  }  private void addUser(HttpServletRequest request, HttpServletResponse response) throws Exception {  // read flight info from form data  String username = request.getParameter("username");  String password = request.getParameter("password");  // create a new flight object  Users theUser = new Users(username, password);  // add the student to the database  usersDbUtil.addUser(theUser);  // send back to main page (the student list)  listUsers(request, response);  }  private void listUsers(HttpServletRequest request, HttpServletResponse response) throws Exception {  // get users from db util  List<Users> users = usersDbUtil.getUsers();  // add flights to the request  request.setAttribute("USER\_LIST", users);  // send to JSP page (view)  RequestDispatcher dispatcher = request.getRequestDispatcher("/list-users.jsp");  dispatcher.forward(request, response);  }  } |

* 1. **Users.java**

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| **package** com.code.web.jdbc;  **public** **class** Users {  **private** **int** admin\_id;  **private** String username;  **private** String password;  **public** Users(**int** admin\_id, String username, String password) {  **super**();  **this**.admin\_id = admin\_id;  **this**.username = username;  **this**.password = password;  }  **public** Users(String username, String password) {  **super**();  **this**.username = username;  **this**.password = password;  }  **public** **int** getAdmin\_id() {  **return** admin\_id;  }  **public** **void** setAdmin\_id(**int** admin\_id) {  **this**.admin\_id = admin\_id;  }  **public** String getUsername() {  **return** username;  }  **public** **void** setUsername(String username) {  **this**.username = username;  }  **public** String getPassword() {  **return** password;  }  **public** **void** setPassword(String password) {  **this**.password = password;  }  @Override  **public** String toString() {  **return** "Users [admin\_id=" + admin\_id + ", username=" + username + ", password=" + password + "]";  }  } |

* 1. **UsersDbUtil.java**

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| --- |
| package com.code.web.jdbc;  import java.sql.Connection;  import java.sql.PreparedStatement;  import java.sql.ResultSet;  import java.sql.Statement;  import java.util.ArrayList;  import java.util.List;  import javax.sql.DataSource;  public class UsersDbUtil {  private DataSource dataSource;  public UsersDbUtil(DataSource theDataSource) {  dataSource = theDataSource;  }  public List<Users> getUsers() throws Exception {  List<Users> users = new ArrayList<>();  Connection myConn = null;  Statement myStmt = null;  ResultSet myRs = null;  try {  // get a connection  myConn = dataSource.getConnection();  // create sql statement  String sql = "select \* from admin order by Admin\_id";  myStmt = myConn.createStatement();  // execute query  myRs = myStmt.executeQuery(sql);  // process result set  while (myRs.next()) {  // retrieve data from result set row  int admin\_id = myRs.getInt("Admin\_id");  String username = myRs.getString("Username");  String password = myRs.getString("Password");  // create new student object  Users tempUser = new Users(admin\_id, username, password);  // add it to the list of students  users.add(tempUser);  }  return users;  } finally {  // close JDBC objects  close(myConn, myStmt, myRs);  }  }  private void close(Connection myConn, Statement myStmt, ResultSet myRs) {  try {  if (myRs != null) {  myRs.close();  }  if (myStmt != null) {  myStmt.close();  }  if (myConn != null) {  myConn.close(); // doesn't really close it ... just puts back in connection pool  }  } catch (Exception exc) {  exc.printStackTrace();  }  }  public void addUser(Users theUser) throws Exception {  Connection myConn = null;  PreparedStatement myStmt = null;  try {  // get db connection  myConn = dataSource.getConnection();  // create sql for insert  String sql = "insert into admin " + "(Username, Password ) " + "values (?, ?)";  myStmt = myConn.prepareStatement(sql);  // set the param values for the user  myStmt.setString(1, theUser.getUsername());  myStmt.setString(2, theUser.getPassword());  // execute sql insert  myStmt.execute();  } finally {  // clean up JDBC objects  close(myConn, myStmt, null);  }  }  public Users getUser(String theAdminId) throws Exception {  Users theUser = null;  Connection myConn = null;  PreparedStatement myStmt = null;  ResultSet myRs = null;  int adminId;  try {  // convert student id to int  adminId = Integer.parseInt(theAdminId);  // get connection to database  myConn = dataSource.getConnection();  // create sql to get selected student  String sql = "select \* from admin where Admin\_id=?";  // create prepared statement  myStmt = myConn.prepareStatement(sql);  // set params  myStmt.setInt(1, adminId);  // execute statement  myRs = myStmt.executeQuery();  // retrieve data from result set row  if (myRs.next()) {  String username = myRs.getString("Username");  String password = myRs.getString("Password");  // use the flightId during construction  theUser = new Users(adminId, username, password);  } else {  throw new Exception("Could not find student id: " + adminId);  }  return theUser;  } finally {  // clean up JDBC objects  close(myConn, myStmt, myRs);  }  }  public void updateUser(Users theUser) throws Exception {  Connection myConn = null;  PreparedStatement myStmt = null;  try {  // get db connection  myConn = dataSource.getConnection();  // create SQL update statement  String sql = "update admin " + "set Username=?, Password=? " + "where Admin\_id=?";  // prepare statement  myStmt = myConn.prepareStatement(sql);  // set params  myStmt.setString(1, theUser.getUsername());  myStmt.setString(2, theUser.getPassword());  myStmt.setInt(3, theUser.getAdmin\_id());  // execute SQL statement  myStmt.execute();  } finally {  // clean up JDBC objects  close(myConn, myStmt, null);  }  }  public void deleteUser(String theAdminId) throws Exception {  Connection myConn = null;  PreparedStatement myStmt = null;  try {  // convert student id to int  int adminId = Integer.parseInt(theAdminId);  // get connection to database  myConn = dataSource.getConnection();  // create sql to delete student  String sql = "delete from admin where Admin\_id=?";  // prepare statement  myStmt = myConn.prepareStatement(sql);  // set params  myStmt.setInt(1, adminId);  // execute sql statement  myStmt.execute();  } finally {  // clean up JDBC code  close(myConn, myStmt, null);  }  }  } |

**JSP FILES:**

1. **Add-flight-form.jsp**

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| --- |
| <!DOCTYPE html>  <html>  <head>  <title>Add Flight Details</title>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/add-student-style.css"*>  </head>  <body>  <div id=*"wrapper"*>  <div id=*"header"*>  <h2>Flight Details</h2>  </div>  </div>    <div id=*"container"*>  <h3>Add Flight</h3>    <form action=*"ControllerServlet"* method=*"GET"*>    <input type=*"hidden"* name=*"command"* value=*"ADD"* />    <table>  <tbody>  <tr>  <td><label>Airline Name:</label></td>  <td><input type=*"text"* name=*"name"* /></td>  </tr>  <tr>  <td><label>Source:</label></td>  <td><input type=*"text"* name=*"source"* /></td>  </tr>    <tr>  <td><label>Destination:</label></td>  <td><input type=*"text"* name=*"destination"* /></td>  </tr>    <tr>  <td><label>Email:</label></td>  <td><input type=*"text"* name=*"email"* /></td>  </tr>  <tr>  <td><label>Date:</label></td>  <td><input type=*"text"* name=*"day"* /></td>  </tr>    <tr>  <td><label>Ticket Price:</label></td>  <td><input type=*"text"* name=*"ticket\_price"* /></td>  </tr>    <tr>  <td><label></label></td>  <td><input type=*"submit"* value=*"Save"* class=*"save"* /></td>  </tr>    </tbody>  </table>  </form>    <div style="clear: *both*;"></div>    <p>  <a href=*"ControllerServlet"*>Back to List</a>  </p>  </div>  </body>  </html> |

1. **Add-user-form.jsp**

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| --- |
| <!DOCTYPE html>  <html>  <head>  <title>Add User Details</title>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/add-student-style.css"*>  </head>  <body>  <div id=*"wrapper"*>  <div id=*"header"*>  <h2>User Details</h2>  </div>  </div>    <div id=*"container"*>  <h3>User Details</h3>    <form action=*"UserControllerServlet"* method=*"GET"*>    <input type=*"hidden"* name=*"command"* value=*"ADD"* />    <table>  <tbody>  <tr>  <td><label>User Name:</label></td>  <td><input type=*"text"* name=*"username"* /></td>  </tr>  <tr>  <td><label>Password:</label></td>  <td><input type=*"text"* name=*"password"* /></td>  </tr>    <tr>  <td><label></label></td>  <td><input type=*"submit"* value=*"Save"* class=*"save"* /></td>  </tr>    </tbody>  </table>  </form>    <div style="clear: *both*;"></div>    <p>  <a href=*"UserControllerServlet"*>Back to List</a>  </p>  </div>  </body>  </html> |

1. **Admin.jsp**

|  |
| --- |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <%@ page import=*"java.util.\*"*%>  <%@ page import=*"java.sql.\*"*%>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Admin</title>  <link  href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"*  rel=*"stylesheet"*  integrity=*"sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"*  crossorigin=*"anonymous"*>  <link href=*"StyleSheets/IntroPage.css"* rel=*"stylesheet"* type=*"text/css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/add-student-style.css"*>  <style>  </style>  </head>  <body>  <div id=*"header"*>  <h1>Admin Dashboard</h1>  <div id=*"subgroup"*>  <a href=*"UserControllerServlet"*><button class=*"btn btn-primary"*>Manage  Users</button></a> <a href=*"ControllerServlet"*><button  class=*"btn btn-primary"*>Manage Flight</button></a> <a href=*"Places.jsp"*><button  class=*"btn btn-primary"*>Places</button></a> <a href=*"Airlines.jsp"*><button  class=*"btn btn-primary"*>Airlines</button></a> <a href=*"HomePage.jsp"*><button  class=*"btn btn-dark"*>Logout</button></a>  </div>  </div>  <div id=*"table"*>  <h3 id=*"table\_title"*>Flight Details</h3>  <table class=*"table"*>  <thead>  <tr>  <th scope=*"col"*>Flight\_id</th>  <th scope=*"col"*>Name</th>  <th scope=*"col"*>Source</th>  <th scope=*"col"*>Destination</th>  <th scope=*"col"*>To\_Day</th>  <th scope=*"col"*>Ticket\_Price</th>  </tr>  </thead>  <tbody>  <%  **try** {  Class.forName("com.mysql.cj.jdbc.Driver");  Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/cheap\_o\_fly", "cheap\_o\_user",  "cheap\_o\_pass");  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("select \* from flights");  **while** (rs.next()) {  %>  <tr>  <th><%=rs.getString("Flight\_id")%></th>  <th><%=rs.getString("Name")%></th>  <th><%=rs.getString("Source")%></th>  <th><%=rs.getString("Destination")%></th>  <th><%=rs.getString("To\_Day")%></th>  <th><%=rs.getString("Ticket\_Price")%></th>  </tr>  <%  }  } **catch** (Exception e) {  System.out.print(e);  }  %>  </tbody>  </table>  </div>  </body>  </html> |

1. **AdminPage.jsp**

|  |
| --- |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Admin</title>  <link  href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"*  rel=*"stylesheet"*  integrity=*"sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"*  crossorigin=*"anonymous"*>  <link href=*"StyleSheets/IntroPage.css"* rel=*"stylesheet"* type=*"text/css"*>  <style>  *#loginform* {  padding: *200px 400px*;  }  *#loginbutton* {  margin: *20px 0px 0px 0px*;  }  *#title* {  font-size: *32px*;  padding: *20px*;  text-align: *center*;  background-color: *#4b778d*;  font-weight: *600px*;  font-family: *'Montserrat', sans-serif*;  }  </style>  </head>  <body>  <div id=*"title"*>  <h2 style="text-align: *center*; color: *white*;">Admin Login</h2>  </div>  <div id=*"adminbg"*>  <form id=*"loginform"* action=*"AdminServlet"* method=*"post"*  autocomplete=*"off"*>  <label class=*"form-label"*>Admin Id</label> <input type=*"text"*  class=*"form-control"* name=*"userid"* required> <label  class=*"form-label"*>Admin Password</label> <input type=*"text"*  class=*"form-control"* name=*"password"* required> <input  type=*"submit"* class=*"btn btn-primary"* id=*"loginbutton"* value=*"Login"*>  </form>  </div>  </body>  </html> |

1. **Airlines.jsp**

|  |
| --- |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <%@ page import=*"java.sql.\*"*%>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Admin</title>  <link  href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"*  rel=*"stylesheet"*  integrity=*"sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"*  crossorigin=*"anonymous"*>  <link href=*"StyleSheets/IntroPage.css"* rel=*"stylesheet"* type=*"text/css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/add-student-style.css"*>  <style>  *#header***,** *#table\_title* {  text-align: *center*;  padding: *20px 0px 40px 0px*;  }  *#subgroup* {  width: *100%*;  }  *#subgroup* *.btn* {  margin: *50px 20px 20px 20px*;  width: *200px*;  }  *#table* {  width: *100%*;  height: *100vh*;  padding: *20px 20px*;  }  </style>  </head>  <body>  <div id=*"header"*>  <h1>Admin Dashboard</h1>  <div>  <form action=*"Admin.jsp"*>  <button type=*"submit"* class=*"btn btn-dark"*>Back To Admin</button>  </form>  </div>  </div>  <div id=*"table"*>  <h3 id=*"table\_title"*>Airlines Information</h3>  <table class=*"table"*>  <thead>  <tr>  <th scope=*"col"*>Id</th>  <th scope=*"col"*>Airlines</th>  </tr>  </thead>  <tbody>  <%  **try** {  Class.forName("com.mysql.cj.jdbc.Driver");  Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/cheap\_o\_fly", "cheap\_o\_user",  "cheap\_o\_pass");  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("select \* from airlines");  **while** (rs.next()) {  %>  <tr>  <th><%=rs.getString("Air\_id")%></th>  <th><%=rs.getString("Air\_Name")%></th>  </tr>  <%  }  } **catch** (Exception e) {  System.out.print(e);  }  %>  </tbody>  </table>  </div>  </body>  </html> |

1. **BookTicket.jsp**

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| --- |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Ticket Booking</title>  <link  href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"*  rel=*"stylesheet"*  integrity=*"sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"*  crossorigin=*"anonymous"*>  <link href=*"StyleSheets/IntroPage.css"* rel=*"stylesheet"* type=*"text/css"*>  <style>  *.custom-select* {  width: *100%*;  }  *#bookingform* {  padding: *80px 350px*;  height: *100vh*;  }  *#sfbtn* {  margin: *20px*;  float: *right*;  }  *.bgcolor* {  background-position: *center*;  background-repeat: *no-repeat*;  background-size: *cover*;  }  *#adminbg* {  margin: *0px*;  background-position: *center*;  background-repeat: *no-repeat*;  background-size: *cover*;  }  **input,** **select** {  margin-bottom: *10px*;  }  **label,** *.whitebig* {  color: *black*;  font-size: *22px*;  font-weight: *600*;  }  *#title* {  font-size: *32px*;  padding: *20px*;  text-align: *center*;  background-color: *#4b778d*;  font-weight: *600px*;  font-family: *'Montserrat', sans-serif*;  }  </style>  </head>  <body>  <div id=*"title"*>  <h2 style="text-align: *center*; color: *white*;">Book Ticket</h2>  </div>  <form class=*"bgcolor"* action=*"Ticketbooking"* method=*"post"*  id=*"bookingform"*>  <label class=*"form-label"*>Source</label>  <select class=*"form-select"*  id=*"inputGroupSelect01"* name=*"source"* required>  <option selected>Choose...</option>  <option value=*"BOMBAY"*>BOMBAY</option>  <option value=*"HYDRABAD"*>HYDRABAD</option>  <option value=*"CHENNAI"*>CHENNAI</option>  <option value=*"KOLKOTA"*>KOLKOTA</option>  <option value=*"NEW\_DELHI"*>NEW DELHI</option>  <option value=*"NEW\_YORK"*>NEW YORK</option>  <option value=*"LONDON"*>LONDON</option>  <option value=*"ABU\_DHABI"*>ABU DHABI</option>  <option value=*"TORANTO"*>TORANTO</option>  <option value=*"SYDNEY"*>SYDNEY</option>  </select> <label class=*"form-label"*>Destination</label>  <select  class=*"form-select"* id=*"inputGroupSelect01"* name=*"destination"* required>  <option selected>Choose...</option>  <option value=*"BOMBAY"*>BOMBAY</option>  <option value=*"HYDRABAD"*>HYDRABAD</option>  <option value=*"CHENNAI"*>CHENNAI</option>  <option value=*"KOLKOTA"*>KOLKOTA</option>  <option value=*"NEW\_DELHI"*>NEW DELHI</option>  <option value=*"NEW\_YORK"*>NEW YORK</option>  <option value=*"LONDON"*>LONDON</option>  <option value=*"ABU\_DHABI"*>ABU DHABI</option>  <option value=*"TORANTO"*>TORANTO</option>  <option value=*"SYDNEY"*>SYDNEY</option>  </select> <label class=*"form-label"*>No of Persons</label>  <select  class=*"form-select"* id=*"inputGroupSelect01"* name=*"seats"* required>  <option selected>Choose...</option>  <option value=*"1"*>1</option>  <option value=*"2"*>2</option>  <option value=*"3"*>3</option>  <option value=*"4"*>4</option>  <option value=*"5"*>5</option>  </select> <label class=*"form-label"*>Date</label> <input type=*"date"*  class=*"form-select"* name=*"date"* required> <input  type=*"submit"* id=*"sfbtn"* class=*"btn btn-dark"* value=*"Search Flight"*>  </form>  </body>  </html> |

1. **Checkout.jsp**

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| --- |
| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Checkout Page</title>  <link  href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"*  rel=*"stylesheet"*  integrity=*"sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"*  crossorigin=*"anonymous"*>  <link href=*"StyleSheets/IntroPage.css"* rel=*"stylesheet"* type=*"text/css"*>  <style>  *#title* {  font-size: *32px*;  padding: *20px*;  text-align: *center*;  background-color: *#4b778d*;  font-weight: *600px*;  font-family: *'Montserrat', sans-serif*;  }  *#detailbox* {  padding: *80px 350px*;  height: *100vh*;  background-position: *center*;  background-repeat: *no-repeat*;  background-size: *cover*;  }  **input,** **select** {  margin-bottom: *10px*;  }  **label,** *.whitebig* {  color: *black*;  font-size: *22px*;  font-weight: *600*;  }  *#cdbtn* {  margin: *20px*;  float: *right*;  }  </style>  </style>  </head>  <body>  <div id=*"title"*>  <h2 style="text-align: *center*; color: *white*;">Checkout</h2>  </div>  <div id=*"detailbox"* class=*"bgcolor"*>  <form action=*"Checkout"* method=*"post"*>  <label class=*"formlabel"*>Card Name</label> <input type=*"text"*  class=*"form-control"* name=*"cardname"* required> <label  class=*"formlabel"*>Card Number</label> <input type=*"text"*  class=*"form-control"* name=*"cardno"* autocomplete=*"off"* required>  <label class=*"formlabel"*>CVV</label> <input type=*"text"*  class=*"form-control"* name=*"cvv"* autocomplete=*"off"* required>  <label class=*"formlabel"*>Card Holder Name</label> <input type=*"text"*  class=*"form-control"* name=*"cardholdername"* autocomplete=*"off"*  required> <input type=*"submit"* id=*"cdbtn"*  class=*"btn btn-primary"*>  </form>  </div>  </body>  </html> |

1. **CustomerDetail.jsp**

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| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <%@ page import=*"java.sql.\*"*%>  <%  **try**  {  String Flight\_id = request.getParameter("msg");    Class.forName("com.mysql.cj.jdbc.Driver");  Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/cheap\_o\_fly","cheap\_o\_user","cheap\_o\_pass");    Statement st=con.createStatement();  ResultSet rs=st.executeQuery("select \* from flights where Flight\_id = '" +Flight\_id+"'");    **int** flightid = 0;  String name,source, destination,day,ticketprice = **null**;    **while**(rs.next())  {  name=rs.getString("Name");  source=rs.getString("Source");  destination=rs.getString("Destination");  day=rs.getString("To\_Day");  ticketprice=rs.getString("Ticket\_Price");  flightid = rs.getInt("Flight\_id");    HttpSession Session = request.getSession();  Session.setAttribute("name", name);  Session.setAttribute("ticketprice", ticketprice);  Session.setAttribute("flightid", flightid);  }  }  **catch**(Exception e)  {  System.out.print(e);  }  %>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Customer Detail</title>  <link  href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"*  rel=*"stylesheet"*  integrity=*"sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"*  crossorigin=*"anonymous"*>  <link href=*"StyleSheets/IntroPage.css"* rel=*"stylesheet"* type=*"text/css"*>  <style type=*"text/css"*>  *#detailbox* {  padding: *160px 350px*;  height: *100vh*;  background-position: *center*;  background-repeat: *no-repeat*;  background-size: *cover*;  }  **input,** **select** {  margin-bottom: *10px*;  }  **label,** *.whitebig* {  color: *black*;  font-size: *22px*;  font-weight: *600*;  }  *#cdbtn* {  margin: *20px*;  float: *right*;  }  *#title* {  font-size: *32px*;  padding: *20px*;  text-align: *center*;  background-color: *#4b778d*;  font-weight: *600px*;  font-family: *'Montserrat', sans-serif*;  }  </style>  </head>  <body>  <div id=*"title"*>  <h2 style="text-align: *center*; color: *white*;">Customer detail</h2>  </div>  <div id=*"detailbox"* class=*"bgcolor"*>  <form action=*"Customerdetail"* method=*"post"*>  <label class=*"formlabel"*>Passenger Name</label> <input type=*"text"*  class=*"form-control"* name=*"passenger"* autocomplete=*"off"* required>  <label class=*"formlabel"*>Email Id</label> <input type=*"email"*  class=*"form-control"* name=*"email"* autocomplete=*"off"* required>  <label class=*"formlabel"*>Mobile Number</label> <input type=*"number"*  class=*"form-control"* name=*"mobileno"* autocomplete=*"off"* required>  <input type=*"submit"* id=*"cdbtn"* class=*"btn btn-primary"*>  </form>  </div>  </body>  </html> |

1. **HomePage.jsp**

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| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>  <!DOCTYPE html>  <html>  <head>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  </head>  <body>  <div class=*"frontimage"*>  <div id=*"backgroundcontainer"*>  <ul id=*"brandname"* class=*"row"*>  <li style="color: *white*">Cheap\_O\_Flights</li>  </ul>  </div>  <div id=*"buttonbox"*>  <form action=*"BookTicket.jsp"*>  <button type=*"submit"* class=*"btn btn-dark"*>Book Flights</button>  </form>  <form action=*"AdminPage.jsp"*>  <button type=*"submit"* class=*"btn btn-dark"*>Admin</button>  </form>  </div>  </div>  </body>  </html> |

1. **list-flights.jsp**

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| <%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>  <!DOCTYPE html>  <html>  <head>  <title>Flight Details</title>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  </head>  <body>  <div id=*"wrapper"*>  <div id=*"header"*>  <h2>Flight Details</h2>  <div>  <form action=*"Admin.jsp"*>  <button type=*"submit"* class=*"btn btn-dark"*>Back To Admin</button>  </form>  </div>  </div>  </div>  <div id=*"container"*>  <div id=*"content"*>  <!-- put new button: Add Flight -->  <input type=*"button"* value=*"Add New Flight"*  onclick="window.location.href='add-flight-form.jsp'; return false;"  class=*"add-student-button"* />  <table>  <tr>  <th>Airline Name</th>  <th>Source</th>  <th>Destination</th>  <th>Email</th>  <th>Date</th>  <th>Ticket Price</th>  <th>Action</th>  </tr>  <c:forEach var=*"tempFlight"* items=*"*${FLIGHT\_LIST}*"*>  <!-- set up a link for each flight -->  <c:url var=*"tempLink"* value=*"ControllerServlet"*>  <c:param name=*"command"* value=*"LOAD"* />  <c:param name=*"flightId"* value=*"*${tempFlight.flight\_id}*"* />  </c:url>  <!-- set up a link to delete a student -->  <c:url var=*"deleteLink"* value=*"ControllerServlet"*>  <c:param name=*"command"* value=*"DELETE"* />  <c:param name=*"flightId"* value=*"*${tempFlight.flight\_id}*"* />  </c:url>  <tr>  <td>${tempFlight.name}</td>  <td>${tempFlight.source}</td>  <td>${tempFlight.destination}</td>  <td>${tempFlight.email}</td>  <td>${tempFlight.day}</td>  <td>${tempFlight.ticket\_price}</td>  <td><a href=*"*${tempLink}*"*>Update</a> | <a  href=*"*${deleteLink}*"*  onclick="if (!(confirm('Are you sure you want to delete this flight?'))) return false">  Delete</a></td>  </tr>  </c:forEach>  </table>  </div>  </div>  </body>  </html> |

1. **list-users.jsp**

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| <%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>  <!DOCTYPE html>  <html>  <head>  <title>User Details</title>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  </head>  <body>  <div id=*"wrapper"*>  <div id=*"header"*>  <h2>User Details</h2>  <div>  <form action=*"Admin.jsp"*>  <button type=*"submit"* class=*"btn btn-dark"*>Back To Admin</button>  </form>  </div>  </div>  </div>  <div id=*"container"*>  <div id=*"content"*>  <!-- put new button: Add User -->  <input type=*"button"* value=*"Add New User"*  onclick="window.location.href='add-user-form.jsp'; return false;"  class=*"add-student-button"* />  <table>  <tr>  <th>User Name</th>  <th>Password</th>  <th>Action</th>  </tr>  <c:forEach var=*"tempuser"* items=*"*${USER\_LIST}*"*>  <!-- set up a link for each User -->  <c:url var=*"tempLink"* value=*"UserControllerServlet"*>  <c:param name=*"command"* value=*"LOAD"* />  <c:param name=*"adminId"* value=*"*${tempuser.admin\_id}*"* />  </c:url>  <!-- set up a link to delete a student -->  <c:url var=*"deleteLink"* value=*"UserControllerServlet"*>  <c:param name=*"command"* value=*"DELETE"* />  <c:param name=*"adminId"* value=*"*${tempuser.admin\_id}*"* />  </c:url>  <tr>  <td>${tempuser.username}</td>  <td>${tempuser.password}</td>  <td><a href=*"*${tempLink}*"*>Update</a> | <a  href=*"*${deleteLink}*"*  onclick="if (!(confirm('Are you sure you want to delete this user?'))) return false">  Delete</a></td>  </tr>  </c:forEach>  </table>  </div>  </div>  </body>  </html> |

1. **Places.jsp**

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| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <%@ page import=*"java.sql.\*"*%>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Admin</title>  <link  href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"*  rel=*"stylesheet"*  integrity=*"sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"*  crossorigin=*"anonymous"*>  <link href=*"StyleSheets/IntroPage.css"* rel=*"stylesheet"* type=*"text/css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/add-student-style.css"*>  <style>  *#header***,** *#table\_title* {  text-align: *center*;  padding: *20px 0px 40px 0px*;  }  *#subgroup* {  width: *100%*;  }  *#subgroup* *.btn* {  margin: *50px 20px 20px 20px*;  width: *200px*;  }  *#table* {  width: *100%*;  height: *100vh*;  padding: *20px 20px*;  }  </style>  </head>  <body>  <div id=*"header"*>  <h1>Admin Dashboard</h1>  <div>  <form action=*"Admin.jsp"*>  <button type=*"submit"* class=*"btn btn-dark"*>Back To Admin</button>  </form>  </div>  </div>  <div id=*"table"*>  <h3 id=*"table\_title"*>Places Information</h3>  <table class=*"table"*>  <thead>  <tr>  <th scope=*"col"*>Place\_Id</th>  <th scope=*"col"*>Source</th>  <th scope=*"col"*>Destination</th>  </tr>  </thead>  <tbody>  <%  **try** {  Class.forName("com.mysql.cj.jdbc.Driver");  Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/cheap\_o\_fly", "cheap\_o\_user",  "cheap\_o\_pass");  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("select \* from places");  **while** (rs.next()) {  %>  <tr>  <th><%=rs.getString("place\_id")%></th>  <th><%=rs.getString("source")%></th>  <th><%=rs.getString("destination")%></th>  </tr>  <%  }  } **catch** (Exception e) {  System.out.print(e);  }  %>  </tbody>  </table>  </div>  </body>  </html> |

1. **ReceiptPage.jsp**

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| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <%@ page import=*"javax.servlet.http.\*"*%>  <%  HttpSession Session = request.getSession();  // session details from customerdetail.jsp  String name = (String) Session.getAttribute("name");  String tp = (String) Session.getAttribute("ticketprice");  **float** ticketprice = Float.parseFloat(tp);  **int** flightid = (**int**) Session.getAttribute("flightid");  // Session details from customerdetail.java  String passengername = (String) Session.getAttribute("passengername");  String email = (String) Session.getAttribute("email");  String mobileno = (String) Session.getAttribute("mobileno");  // Session details from ticketbooking.java  String source = (String) Session.getAttribute("source");  String destination = (String) Session.getAttribute("destination");  String seats = (String) Session.getAttribute("seats");  **int** seat = Integer.parseInt(seats);  String date = (String) Session.getAttribute("date");  String day = (String) Session.getAttribute("Day");  // Session details from checkout.java  String cardname = (String) Session.getAttribute("cardname");  String cardno = (String) Session.getAttribute("cardno");  String cvv = (String) Session.getAttribute("cvv");  String cardholdername = (String) Session.getAttribute("cardholdername");  // String phone = (String)Session.getAttribute("phone");  // String email = (String)Session.getAttribute("email");  **double** sum = seat \* ticketprice;  %>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Receipt</title>  <link  href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"*  rel=*"stylesheet"*  integrity=*"sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"*  crossorigin=*"anonymous"*>  <link href=*"StyleSheets/IntroPage.css"* rel=*"stylesheet"* type=*"text/css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/add-student-style.css"*>  </head>  <body>  <div style="text-align: *center*">  <h1>Thank You</h1>  <p>Your ticket has been booked successfully!</p>  </div>  <div style="padding: *40px 100px*">  <div>  <h3>TICKET SUMMARY</h3>  <br>  <h5><%=source%>  to  <%=destination%>  | Date:  <%=date%></h5>  <br>  <p>  No of Seats Booked: <b><%=seat%></b><br> Flight Name: <b><%=name%></b>  (Flight Id:<b><%=flightid%></b>)<br> <br> Ticket Price: <b>Rs.<%=ticketprice%></b>  </div>  <br>  <div>  <h3>PASSENGER SUMMARY</h3>  <br>  <h5>  Passenger Name -  <%=passengername%>  | EMail -  <%=email%>  | Phone -  <%=mobileno%></h5>  </div>  <br>  <h3 style="text-align: *right*">  Total Amount Paid - RS.<%=sum%></h3>  <button type=*"button"* class=*"btn btn-dark"* onclick="window.print()">Print</button>  </div>  </body>  </html> |

1. **ResultFlights.jsp**

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| <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <%@ page import=*"java.sql.\*"*%>  <!DOCTYPE html>  <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>Result Flights</title>  <link  href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"*  rel=*"stylesheet"*  integrity=*"sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"*  crossorigin=*"anonymous"*>  <link href=*"StyleSheets/IntroPage.css"* rel=*"stylesheet"* type=*"text/css"*>  <style>  *.custom-select* {  width: *100%*;  }  *#bookingform* {  padding: *160px 350px*;  height: *100vh*;  }  *#sfbtn* {  margin: *20px*;  float: *right*;  }  *.bgcolor* {  height: *100vh*;  background-image: *linear-gradient(rgba(0, 0, 0, 0.1), rgba(0, 0, 0, 0.6)),*  *url('StyleSheets/images/airlinelist.jpg')*;  background-position: *center*;  background-repeat: *no-repeat*;  background-size: *cover*;  }  *#adminbg* {  margin: *0px*;  background-image: *linear-gradient(rgba(0, 0, 0, 0.1), rgba(0, 0, 0, 0.6)),*  *url('StyleSheets/images/airlinelist.jpg')*;  background-position: *center*;  background-repeat: *no-repeat*;  background-size: *cover*;  }  **input,** **select** {  margin-bottom: *10px*;  }  **label**  **,**  {  **color**  *:white*  ;    **font-size**  *:*  *22px*  ;    **font-weight**  *:*  *600*  ;  }  *.whitebig* {  color: *black*;  font-size: *22px*;  font-weight: *600*;  }  *#title* {  font-size: *32px*;  padding: *20px*;  text-align: *center*;  background-color: *#4b778d*;  font-weight: *600px*;  font-family: *'Montserrat', sans-serif*;  }  *#tablecont* {  margin: *20px 10px*;  }  </style>  </head>  <body>  <div id=*"table"*>  <div id=*"title"*>  <h2 id=*"table\_title"*  style="color: *white*; text-align: *center*; padding: *10px 0px 10px 0px*; font-weight: *800*;">Flight  Details</h2>  </div>  <table id=*"tablecont"* class=*"table whitebig"*>  <thead>  <tr>  <th scope=*"col"*>Flight Id</th>  <th scope=*"col"*>Flight Name</th>  <th scope=*"col"*>Source</th>  <th scope=*"col"*>Destination</th>  <th scope=*"col"*>email</th>  <th scope=*"col"*>Date</th>  <th scope=*"col"*>Ticket Price</th>  <th scope=*"col"*>Book</th>  </tr>  </thead>  <tbody>  <%  **try** {  String a = request.getParameter("day");  String arr[] = a.split(" ");  System.out.println("\n Inside ResultFlights.jsp");  System.out.println(arr[0] + " " + arr[1] + " " + arr[2] + " " + arr[3] + " " + arr[4]);  // System.out.println("select \* from flights where Source='"+arr[1]+"' and Destination='"+arr[2]+"' and Day='"+arr[0]+"'");  Class.forName("com.mysql.cj.jdbc.Driver");  Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/cheap\_o\_fly", "cheap\_o\_user",  "cheap\_o\_pass");  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("select \* from flights where Source='" + arr[1] + "' and Destination='" + arr[2]  + "' and To\_Day='" + arr[4] + "'");  String ticketprice = **null**;  String name = **null**;  **while** (rs.next()) {  %>  <tr>  <th><%=rs.getInt("Flight\_id")%></th>  <th><%=rs.getString("Name")%></th>  <th><%=rs.getString("Source")%></th>  <th><%=rs.getString("Destination")%></th>  <th><%=rs.getString("email")%></th>  <th><%=arr[4]%></th>  <th><%=rs.getString("Ticket\_Price")%></th>  <th><a  href=*"CustomerDetail.jsp?msg=*<%=rs.getInt("Flight\_id")%>*"*><button  class=*"btn btn-primary"*>Book This Flight</button></a></th>  </tr>  <%  }  } **catch** (Exception e) {  System.out.print(e);  }  %>  </tbody>  </table>  </div>  </body>  </html> |

1. **update-flight-form.jsp**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <title>Update Flight Details</title>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/add-student-style.css"*>  </head>  <body>  <div id=*"wrapper"*>  <div id=*"header"*>  <h2>Update Flight Details</h2>  </div>  </div>  <div id=*"container"*>  <h3>Update Flight</h3>  <form action=*"ControllerServlet"* method=*"GET"*>  <input type=*"hidden"* name=*"command"* value=*"UPDATE"* /> <input  type=*"hidden"* name=*"flightId"* value=*"*${THE\_FLIGHT.flight\_id}*"* />  <table>  <tbody>  <tr>  <td><label>Airline name:</label></td>  <td><input type=*"text"* name=*"name"* value=*"*${THE\_FLIGHT.name}*"* /></td>  </tr>  <tr>  <td><label>Source:</label></td>  <td><input type=*"text"* name=*"source"*  value=*"*${THE\_FLIGHT.source}*"* /></td>  </tr>  <tr>  <td><label>Destination:</label></td>  <td><input type=*"text"* name=*"destination"*  value=*"*${THE\_FLIGHT.destination}*"* /></td>  </tr>  <tr>  <td><label>Email:</label></td>  <td><input type=*"text"* name=*"email"*  value=*"*${THE\_FLIGHT.email}*"* /></td>  </tr>  <tr>  <td><label>Date:</label></td>  <td><input type=*"text"* name=*"day"* value=*"*${THE\_FLIGHT.day}*"* /></td>  </tr>  <tr>  <td><label>Ticket Price:</label></td>  <td><input type=*"text"* name=*"ticket\_price"*  value=*"*${THE\_FLIGHT.ticket\_price}*"* /></td>  </tr>  <tr>  <td><label></label></td>  <td><input type=*"submit"* value=*"Save"* class=*"save"* /></td>  </tr>  </tbody>  </table>  </form>  <div style="clear: *both*;"></div>  <p>  <a href=*"ControllerServlet"*>Back to List</a>  </p>  </div>  </body>  </html> |

1. **update-user-form.jsp**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <title>Update User Details</title>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>  <link type=*"text/css"* rel=*"stylesheet"* href=*"css/add-student-style.css"*>  </head>  <body>  <div id=*"wrapper"*>  <div id=*"header"*>  <h2>Update User Details</h2>  </div>  </div>  <div id=*"container"*>  <h3>Update User details</h3>  <form action=*"UserControllerServlet"* method=*"GET"*>  <input type=*"hidden"* name=*"command"* value=*"UPDATE"* /> <input  type=*"hidden"* name=*"adminId"* value=*"*${THE\_USER.admin\_id}*"* />  <table>  <tbody>  <tr>  <td><label>User Name:</label></td>  <td><input type=*"text"* name=*"username"*  value=*"*${THE\_USER.username}*"* /></td>  </tr>  <tr>  <td><label>Password:</label></td>  <td><input type=*"text"* name=*"password"*  value=*"*${THE\_USER.password}*"* /></td>  </tr>  <tr>  <td><label></label></td>  <td><input type=*"submit"* value=*"Save"* class=*"save"* /></td>  </tr>  </tbody>  </table>  </form>  <div style="clear: *both*;"></div>  <p>  <a href=*"UserControllerServlet"*>Back to List</a>  </p>  </div>  </body>  </html> |