

Practical 11 (Mini-project)

home.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<%@page isELIgnored="false"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
<%@include file="../component/all_css.jsp"%>
</head>
<body>
    <c:if test="${empty loginUser}">
        <c:redirect url="../login.jsp"></c:redirect>
    </c:if>
    <%@include file="../component/navbar.jsp"%>

    <div id="carouselExampleControls" class="carousel slide"
        data-bs-ride="carousel">
        <div class="carousel-inner">
            <div class="carousel-item active">
                
            </div>
            <div class="carousel-item">
                
            </div>
            <div class="carousel-item">
                
            </div>
        </div>
        <button class="carousel-control-prev" type="button"
            data-bs-target="#carouselExampleControls" data-bs-slide="prev">
            <span class="carousel-control-prev-icon" aria-hidden="true"></span> <span
                class="visually-hidden">Previous</span>
        </button>
        <button class="carousel-control-next" type="button"
            data-bs-target="#carouselExampleControls" data-bs-slide="next">
            <span class="carousel-control-next-icon" aria-hidden="true"></span> <span
                class="visually-hidden">Next</span>
        </button>
    </div>
</body>
</html>
```

add_expense.jsp :

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<%@page isELIgnored="false"%>
<!DOCTYPE html>
<html>
```

```
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
<%@include file="../component/all_css.jsp"%>
<style type="text/css">
.card-sh {
    box-shadow: 0 0 25px 0 rgba(0, 0, 0, 0.3);
}
</style>
</head>
<body class="bg-light">
    <c:if test="${empty loginUser}">
        <c:redirect url="../login.jsp"></c:redirect>
    </c:if>

    <%@include file="../component/navbar.jsp"%>

    <div class="container">
        <div class="row">
            <div class="col-md-4 offset-md-4 mt-5">
                <div class="card card-sh">
                    <div class="card-header text-center">
                        <p class="fs-3">Add Expense</p>
                        <c:if test="${not empty msg}">
                            <p class="text-center text-success fs-4">${msg }</p>
                            <c:remove var="msg" />
                        </c:if>
                    </div>
                    <div class="card-body">
                        <form action="../saveExpense" method="post">
                            <div class="mb-3">
                                <label>Title</label> <input type="text" name="title"
                                class="form-control">
                            </div>

                            <div class="mb-3">
                                <label>Date</label> <input type="date"
                                name="date"
                                class="form-control">
                            </div>

                            <div class="mb-3">
                                <label>Time</label> <input type="time"
                                name="time"
                                class="form-control">
                            </div>

                            <div class="mb-3">
                                <label>Description</label> <input type="text"
                                name="description"
                                class="form-control">
                            </div>

                            <div class="mb-3">
                                <label>Price</label> <input type="text"
                                name="price"
                                class="form-control">
                            </div>
                        </form>
                    </div>
                </div>
            </div>
        </div>
    </div>
</body>
</html>
```



```

ex.getId() %>"
primary">Edit</a> <a
ex.getId() %>"
danger">Delete</a>

<div class="card-description">
    <p>
        <strong>Description:</strong>
        <%= ex.getDescription() %></p>
    <p>
        <strong>Date:</strong>
        <%= ex.getDate() %></p>
    <p>
        <strong>Time:</strong>
        <%= ex.getTime() %></p>
    <p>
        <strong>Price:</strong>
        <%= ex.getPrice() %></p>
</div>
<div class="card-footer">
    <a href="edit_expense.jsp?id=<%=
        class="btn btn-sm btn-
        href=" ../deleteExpense?id=<%=
        class="btn btn-sm btn-
    </div>
</div>
<% } %>
</div>
</div>
</div>
</div>
</div>
</div>
</body>
</html>

```

SaveServlet.java :

```

package com.servlet;

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;

import com.dao.ExpenseDao;
import com.db.HibernateUtil;
import com.entity.Expense;
import com.entity.User;

@WebServlet("/saveExpense")
public class SaveServlet extends HttpServlet{

    /**
     *

```

```

    */
    private static final long serialVersionUID = 1L;

    @Override
    protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException,
    IOException {

        String title = req.getParameter("title");
        String date = req.getParameter("date");
        String time = req.getParameter("time");
        String description = req.getParameter("description");
        String price = req.getParameter("price");

        HttpSession session = req.getSession();
        User user = (User)session.getAttribute("loginUser");

        Expense ex = new Expense(title,date,time,description,price,user);

        ExpenseDao dao = new ExpenseDao(HibernateUtil.getSessionFactory());
        boolean f = dao.saveExpense(ex);

        if (f) {
            session.setAttribute("msg", "Expense added Successfully");
            resp.sendRedirect("user/add_expense.jsp");
        } else {
            session.setAttribute("msg", "Something wrong on server");

            resp.sendRedirect("user/add_expense.jsp");
        }
    }
}

```

ExpenseDao.java :

```

package com.dao;

import java.util.ArrayList;
import java.util.List;
import org.hibernate.Query;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
import com.entity.Expense;
import com.entity.User;
public class ExpenseDao {

    private SessionFactory factory = null;
    private Session session = null;
    private Transaction tx = null;

    public ExpenseDao(SessionFactory factory) {
        super();
        this.factory = factory;
    }

    public boolean saveExpense(Expense ex) {
        boolean f = false;

```

```

        try {
            session = factory.openSession();
            tx = session.beginTransaction();
            session.save(ex);
            tx.commit();
            f = true;
        } catch (Exception e) {
            if(tx != null) {
                f = false;
                e.printStackTrace();
            }
        }
        return f;
    }

    public List<Expense> getAllExpenseByUser(User user){
        List<Expense> list = new ArrayList<Expense>();
        try {
            session = factory.openSession();
            Query q = session.createQuery("from Expense where user=:us");
            q.setParameter("us", user);
            list = q.list();
        } catch (Exception e) {
            e.printStackTrace();
        }
        return list;
    }

    public Expense getExpenseById(int id) {
        Expense ex = null;
        try {
            session = factory.openSession();
            Query q = session.createQuery("from Expense where id=:id");

            q.setParameter("id", id);
            ex = (Expense) q.uniqueResult();
        } catch (Exception e) {
            e.printStackTrace();
        }
        return ex;
    }

    public boolean updateExpense(Expense ex) {
        boolean f = false;

        try {
            session = factory.openSession();
            tx = session.beginTransaction();
            session.saveOrUpdate(ex);
            tx.commit();
            f = true;
        } catch (Exception e) {
            if(tx != null) {
                f = false;
                e.printStackTrace();
            }
        }
    }

```

```

        return f;
    }

    public boolean deleteExpense(int id) {
        boolean f = false;
        try {
            session = factory.openSession();
            tx = session.beginTransaction();

            Expense ex = session.get(Expense.class, id);

            session.delete(ex);

            tx.commit();
            f = true;

        } catch (Exception e) {
            e.printStackTrace();
        }
        return f;
    }
}

```

HibernateUtil.java

```

package com.db;

import java.util.Properties;

import org.hibernate.SessionFactory;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.Configuration;
import org.hibernate.cfg.Environment;
import org.hibernate.service.ServiceRegistry;

import com.entity.Expense;
import com.entity.User;

public class HibernateUtil {

    private static SessionFactory sessionFactory;

    public static SessionFactory getSessionFactory() {
        if (sessionFactory == null) {
            Configuration configuration = new Configuration();

            Properties properties = new Properties();
            properties.put(Environment.DRIVER, "com.mysql.cj.jdbc.Driver");
            properties.put(Environment.URL, "jdbc:mysql://localhost:3306/expense_tracker_db");
            properties.put(Environment.USER, "root");
            properties.put(Environment.PASS, "pratik");
            properties.put(Environment.DIALECT, "org.hibernate.dialect.MySQL8Dialect");
            properties.put(Environment.HBM2DDL_AUTO, "update");
            properties.put(Environment.SHOW_SQL, true);

            configuration.setProperties(properties);
            configuration.addAnnotatedClass(User.class);
            configuration.addAnnotatedClass(Expense.class);

```

```

        ServiceRegistry serviceRegistry = new StandardServiceRegistryBuilder()
            .applySettings(configuration.getProperties()).build();

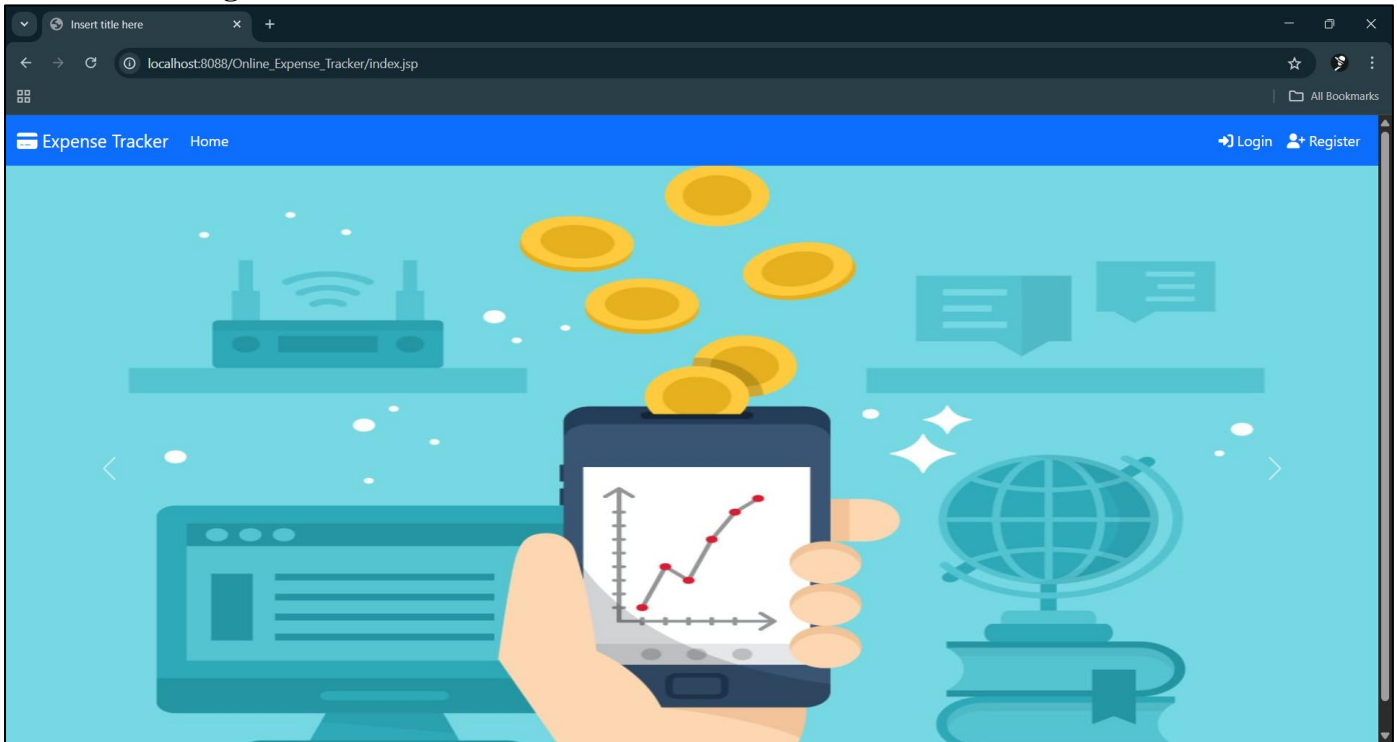
        sessionFactory = configuration.buildSessionFactory(serviceRegistry);

    }
    return sessionFactory;
}
}

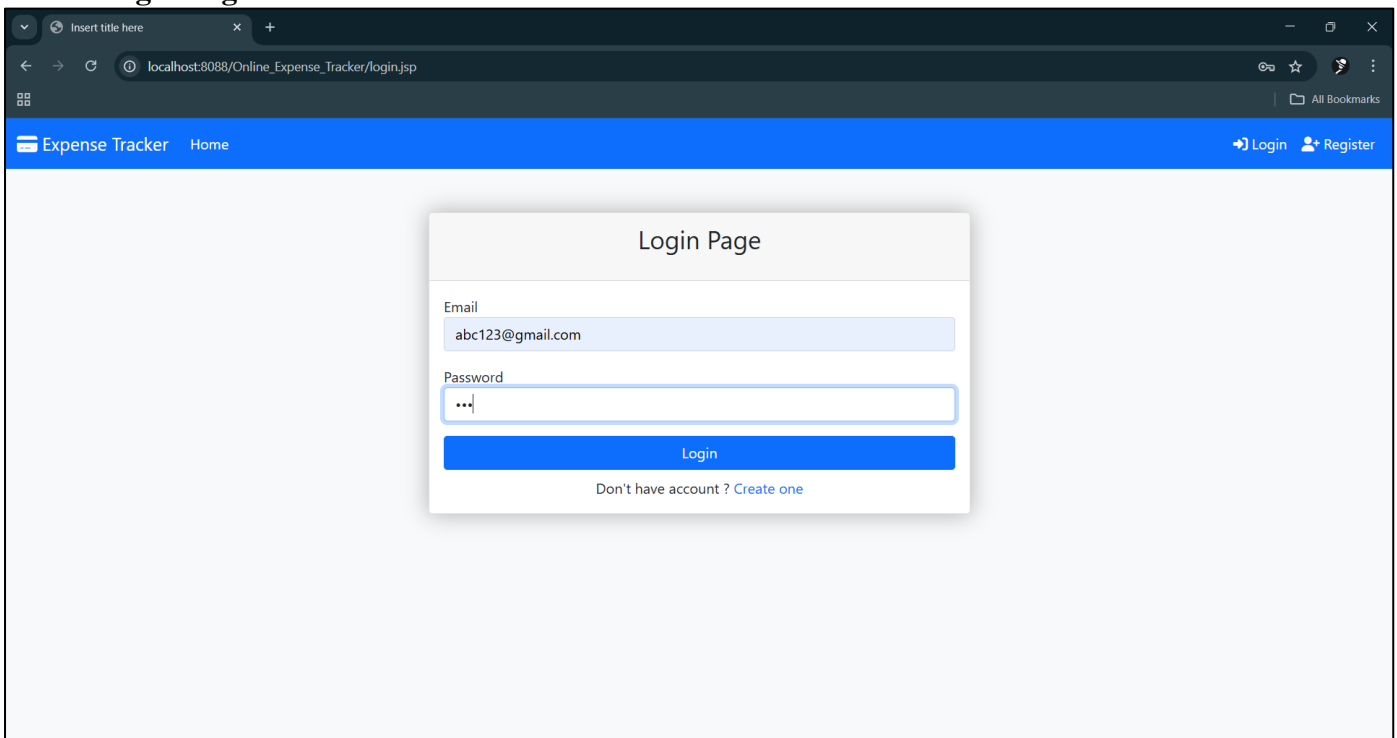
```

Output :

- **Home Page :**



- **Login Page :**



- **Add Expense Page :**

Expense Tracker Home Add Expense View Expense Pratik Logout

Add Expense

Title

Date

Time

Description

Price

- **View Expense Page :**

Expense Tracker Home Add Expense View Expense Pratik Logout

All Expenses

Stationaries

Description: Bought Notebooks and Pens and Theory Papers

Date: 2025-03-22

Time: 18:15

Price: 150

Food

Description: Monthly Mess Food One time

Date: 2025-03-02

Time: 20:30

Price: 1800

Rent

Description: Room Rent

Date: 2025-03-01

Time: 10:49

Price: 2000

Exam Form

Description: Semester Exam Form Fees

Date: 2025-03-17

Time: 11:00

Price: 1000

Study table

Description: Bought new Study table for Laptop

Date: 2025-03-14