Festival Event Registration System (FERS)

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ABSTRACT

FERS is a web application to automate the process of festival event management. It will be used to manage the visitor's information, event information and will be helpful in booking the seat for a particular event by the visitor.
The system will consist of various modules like Registration module, Login module, Change visitor details module along with Event registration and De-registration modules.

The purpose of the project is to make an web application capable of storing visitor and event details in the database and updating the availability of seats for a particular event on the run-time.

We have used HTML, CSS and JavaScript for the front-end designing and Java and spring-mvc framework for the server-side implementation. For the database we have used Java-persistence api(Jpa) implementation hibernate framework and mysql database.

By this project we have accomplished our learning's of formation of web based applications with Java and Spring Model View Controller architecture.

INTRODUCTION

Event management is the application to manage the registration of festivals, events and conferences. Here the events can be movies, seminars, trade shows etc. The project provides most of the basic functionality required for an event. It allows the user to select from a list of events. It consists of various modules dealing with managing visitor's information, managing events information. The first module of the project, registration module deals with registering the visitor's information like his name, address, phone number etc. The second module is concerned with login validation of the registered visitor. Third module deals with changing password, fourth module deals with the updating visitor's information and the final module takes care of event registration and de-registration. Presentation layer is being implemented using HTML, CSS and Javascript and the service layer is implemented using Java and Spring web-mvc architecture. Here we have also used Jsp in order to create dynamic web content. In this Jsp tags are used to insert JAVA code into HTML pages. Here we have used hibernate ORM which is an object-relational mapping tool for the Java programming language. It provides a framework for mapping an object-oriented domain model to a relational database. We have integrated hibernate with spring mvc.

REQUIREMENT SPECIFICATION

This System Requirement Specification (SRS) aims to provide the readers and users information about the system and its functions and specifications. SRS describes the data, functional and behavioral requirements of the software.

The requirements specifications are distributed over the modules given below :

- Registration Module
- Login Validation Module
- Change Password Module
- Update Visitor Details Module
- Event registration and de-registration Module

List of the Software requirements specifications :

1. Database: MS SQL Server version : 5.7 along with mysql command line client.
2. Server : Apache Tomcat Server version 8.0 or above
3. Spring Tool Suite : Version 3.9
4. Java jdk : Version 8
5. JBoss Tools Version : 4.11.0 Final

List of the Business requirements specifications :

1. The application will import its data from My SQL Database and use hibernate for its integrated development environment.
2. The event information can only be accessed by the admin members and the manager/supervisor aside from the developers.
3. All the forms used in the application follow a clear and logical structure.
4. A visitor must have a visitor account.
5. A user can only register for a visitor account in the system.
6. A visitor must be logged into the system to register for an event.
7. A visitor must be logged into the system to unregister for an event.
8. A visitor must be logged into the system to update the personal details.
9. There is no limit to the number of events that a visitor can register for.
10. A visitor can only unregister for events he had registered for.
11. There is no waiting list for events that have no tickets remaining.
12. A visitor name i.e. username cannot be changed once created by the visitor.

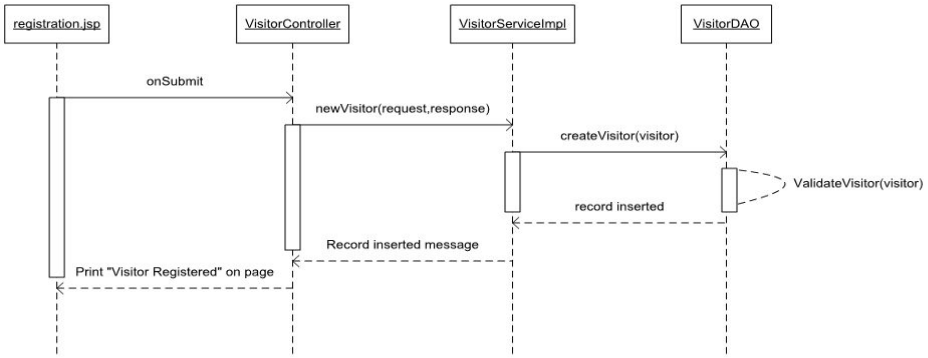
ARCHITECTURE DESIGN

The Spring Web MVC framework provides Model-View-Controller (MVC) architecture and ready components that can be used to develop flexible and loosely coupled web applications. The MVC pattern results in separating the different aspects of the application (input logic, business logic, and UI logic), while providing a loose coupling between these elements.

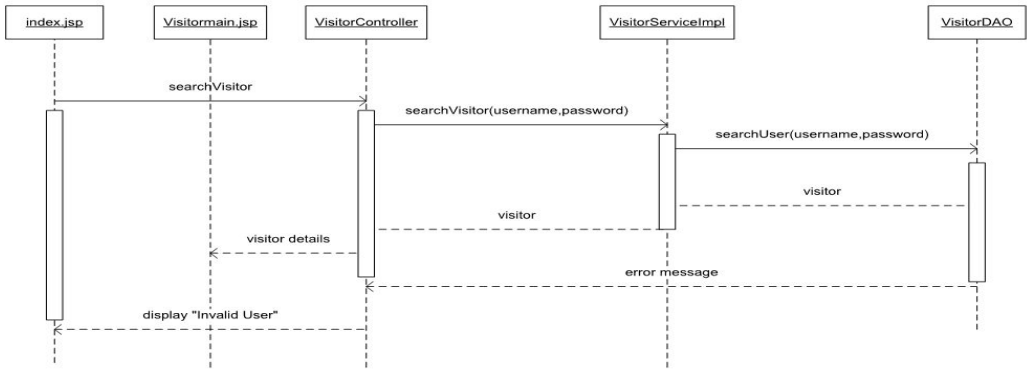
All the five modules are developed based on this architecture with the help of sequence diagrams :

1. Register Visitor module :

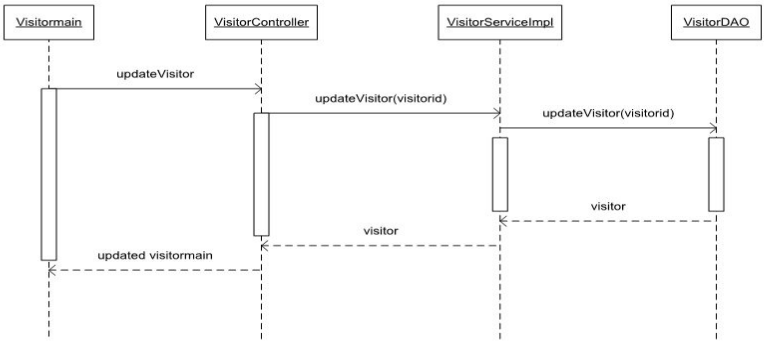
   Here the data from the registration page goes to bean to VisitorController on submitting the form, with the help of newVisitor method the control is passed forward to service method and then to DAO layer with help of createVisitor() function. At last the session is built and data is inserted into the database with help of entity.



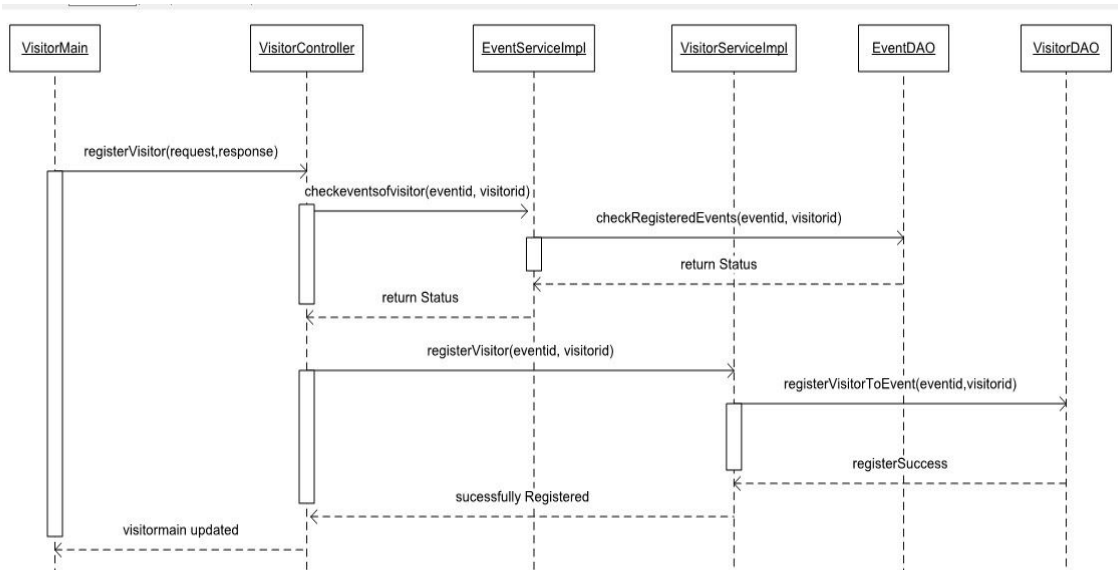
2. Login Validation module:



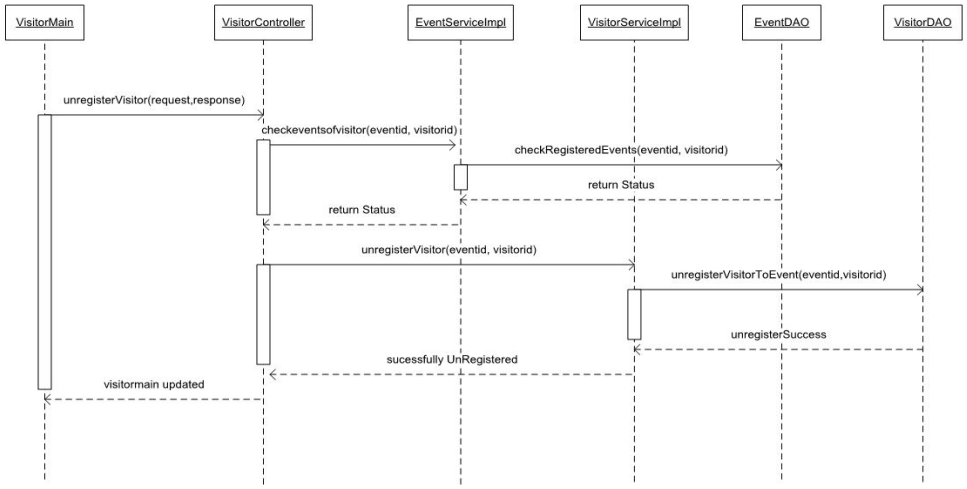
3. Update Visitor module :



4. Register for Event :



5. Unregister for Event :



CONCLUSION AND FUTURE WORK

It has been a great pleasure for us to work on this exciting and challenging project. This project proved good

for us as it provided practical knowledge of not only programming in Java and My-SQL database web-based applications and to some extent HTML, CSS, JavaScript and SQL Server, but also about all handling procedures related with " Festival Event Registration System". It also provides knowledge about the latest technology like Spring-MVC and hibernate used in developing web enabled applications and client server technology that will be in great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

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