**Mainou’s Recipe Lab**

**Introduction**

The Project “Mainou’s Recipe Lab” is developed to help little Boy and Other Boys Who want to Pursue dream and want to become Chef.

**Features for Guest User:**

* Can View Other Recipe that register with Website.
* Signup to Website
* Search Recipe with Keywords
* Check Detail about Recipe

**Features for User:**

* Login
* Sort Own Recipe by Name, Ingredients, Date of Created.
* View Detail of Recipe as well as edited History (What’s Changes he/she make in their Recipe);
* View List of Own Recipe
* Add Recipe to Own Recipe Book.

**Technology Used for UI**

* JSP
* HTML5, CSS, Bootstrap

**Technology Used for Backend or Database Creation**

* H2 Database //Feel Free to use any Database this does not affect the flow of application
* Hibernate(ORM)
* Java (Spring Boot)

**Security**

Security of Website handle by Spring Security and Configuration of Spring Done through SpringSecurityContext.xml in lab\_frontView Folder.

Following are the security requirements that need to be performed the processing of secure system:

* + **Physical Security**

NA

* + **Database Security**
    - **H2 Server authentication**: Use H2 Server id and password at time ofestablishing connection from database. Set email and user\_id as primary key in registration table for reduce redundancy.
* **Logical Security**
  + - User have no permission to Admin Panel even user Cannot see any kind of information regarding Admin panel.
    - User only have permission on to add or delete own Recipe.

User can edit only own Recipe.

**System Interaction**

In future, to interact with other systems, my project can be combined with other applications such as Cloud Study System etc.

* **User Module**

Users have limited facilities i.e. to sign up, login, Edit own Recipe and add or delete.

* **Admin Module**

Admin manages each user. Admin may can see all Recipe.

**2.7.6 Physical Environment**

The physical environment of the system is very interactive as the user can get the specified data related to his/her queries and can also submit his/her suggestion and complaints directly to the administrator.

**2.8** **Functional Objectives**

My purpose is to design the application which is reliable. The users of Mainou’s Recipe Lab are given a unique login id and a password. So unauthorized users aren’t allowed here.

**2.9** **Performance Objectives**

Project Tasks are directly proportional to the Performance Criteria which have been set for the project. The Performance Criteria, therefore, determines the amount of work to be done. So, to increase the performance criteria it is almost always necessary to increase the Work or to obtain resumes with greater capabilities (i.e. they can perform the same work in a shorter period of time).

Therefore, the performance objectives are classified as follows:

* Performance of the system increases the reliability.
* If work is done by greater number of manor, the cost will increase, so manor should be low.
* Equipment cost would be reduced.

**Improvements**

Initially the objective is to create a Website which can allow users to Add recipe and update or delete. This project can also be extended in future by combining new features in it.

There is always room for improvements, and the project I created can also be improved. This is especially because I had to create it within a limited time. With more time, the project can be improved to include security by providing the authentication. I will extend my Web site which would be more elaborative.

* Searching of relevant data from the database.
* Remembering the last login time of user.
* Better communication to user via SMS will be included.
  + - Email Confirmation When User signup
    - Highlight Updated Content.

1. **SOFTWARE REQUIREMENT-**

The software requirements for developer are as follows:

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| **Platform** | **Windows** |
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| Operating System | Windows 10 |
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| Scripting Language | JQuery, jstl core |
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| --- | --- |
| Interface | JSP |
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| Server | Tomcat v8.0 |
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| Back-End Tool | H2 Database, Hibernate |
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| Technology | Java |
|  |  |
| Frameworks | Spring Mvc,Hibernate,Spring Security |
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| IDE | Eclipse |