Project Proposal

Go To the Kitchen

——A web-based application

Team Name: TableLegs

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1. Background and Meaning

In the last few decades, with rapid and drastic development of the network technology based on the website, a growing number of things, even from enterprise-grade business to ordinary life activities, can be dealt with by the Internet, like shopping online, making a flight reservation. To cater for the diversified requirements of the website users, various web-based applications aiming at specific functions have arisen.

As is well known, human can not live without food. Eating is always a kind of enjoyment, while cooking sometimes may not and it will even become a difficult problem for many beginners. So a system or website with cooking methods is absolutely necessary. It can guide the users making their meal and also provide a platform for cooking enthusiasts to absorb large amount of recipes information. In addition, users can share their own recipes and experience with others and search for the recipes which they are interested in.

2. Introduction

This project named "Go To the Kitchen", which resembles most existed web applications, is also a kind of information system which can facilitate people's lives and solve problems of them. Just as its name implies, it contributes to removing the troubles of cooking. It allows the storage of membership information and receipts with adding, deleting, modifying, searching and other useful operations to provide cooks a fast preparation before cooking, a powerful guidance during cooking and a perfect meal after cooking.

3. Objectives

The target users of this application are cooking beginners and cooking enthusiasts. For cooking beginners, searching for receipts of many ingredients and learning from that are important. But for cooking enthusiasts, more attention will focus on sharing their experience and expertise and trying an innovative way of cooking.
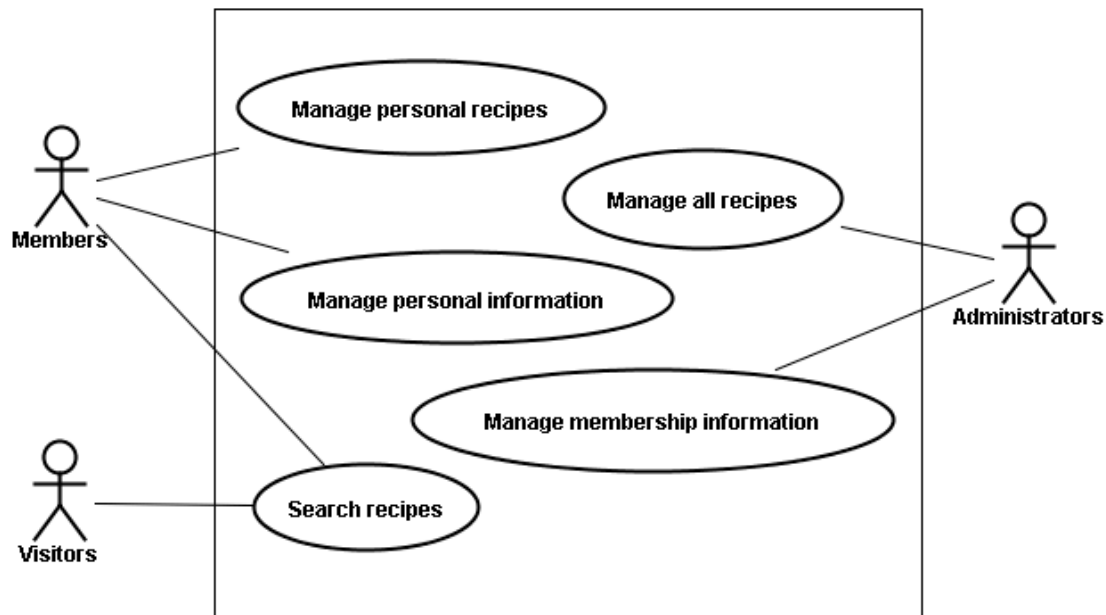So the objectives of this system are:

      (1)   Give guidances such as recipes to people who are not skilled in cooking.

      (2)   Build a platform of sharing experience and preferences for people who are good at or interested in cooking.

4. Contents

There are three groups of users: Members, Visitors and Administrator.
Each of the groups has it's own limit of authority to use this recipes application.
Fig 4.1 shows the usecase diagram of the whole system.

Fig. 4.1 Usecase Diagram of Recipes System

(1) Members:

For the system members, more operations are provided. They can manage their personal recipes , search recipes and manage personal information.

a) Manage Personal Recipes

Members can create, delete, modify and search their own recipes.

They can also add others' wonderful recipes to favorite or cancel that and report the unreasonable recipes to the administrator.

b) Search Recipes

Memebers can search recipes from the warehouse of the systems.

c) Manage Personal Information

Memebers can modify their personal information and and delete the membership of the system.

(2) Visitors:

Visitors are allowed to do one operation that they can only search recipes from the warehouse of the system.

(3) Administrators:

Only administrators have the authority to manage the whole database of the system. They can manage all recipes and manage all membership information.

a) Manage All Recipes

Administrators can publish useful or well-timed recipes regularly on the home page.
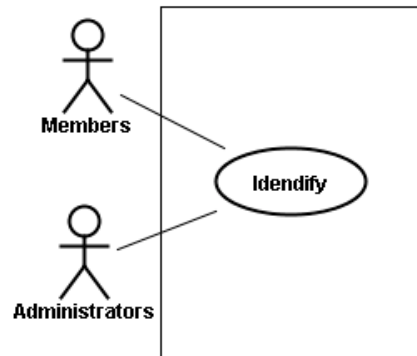
They can delete, modify and search the published recipes.

They can also delete the recipes which are reported by users after checking and verifying.

b) Manage All Membership Information

Administrators can delete members if the number of the members' reported recipes reach at least 3.

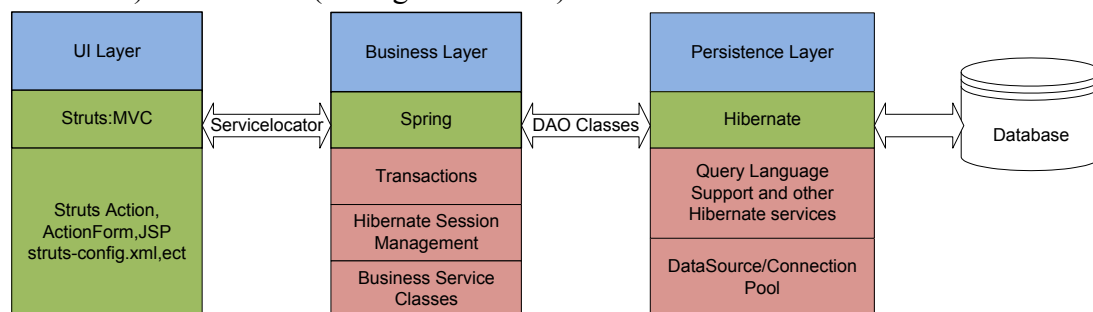***Notes:** See Fig. 4.2, members and administrators should be identified before they use the system.

Fig. 4.2 Usecase Diagram of Identification.

Identification contains two processes: logging in and logging on.

5. Methodology

This project is a J2EE-based web application supported by SSH (Struts, Spring, Hibernate) architecture (As Fig. 5.1 shown).

Fig. 5.1 SSH Structure Diagram

J2EE is a platform-independent and Java-centric environment from Sun for developing, building and deploying Web-based enterprise applications online. The J2EE platform consists of a set of services, APIs and protocols that provide the functionality for developing multi-tiered and Web-based applications

We choose Eclipes as the development tool and MySQL as the database supporter. And we should analysis the database before starting in order to design a reasonable database for easy storing and searching.

6. Conclusion

This system provides a lot of recipes and benefits both cooking beginners and enthusiasts. Apart from the basic functions that we should finish, many optional functions, like grading or commenting on the recipes, can be realized as well. There is no doubt that it's an useful and meaningful