

COMP6000 Technical Design

1. Introduction

For this project, we are going to create website that have review and rating for restaurants. This technical design describes the overview of the architecture, components for the program and the details about how these components interact with each other.

1.1 Main page

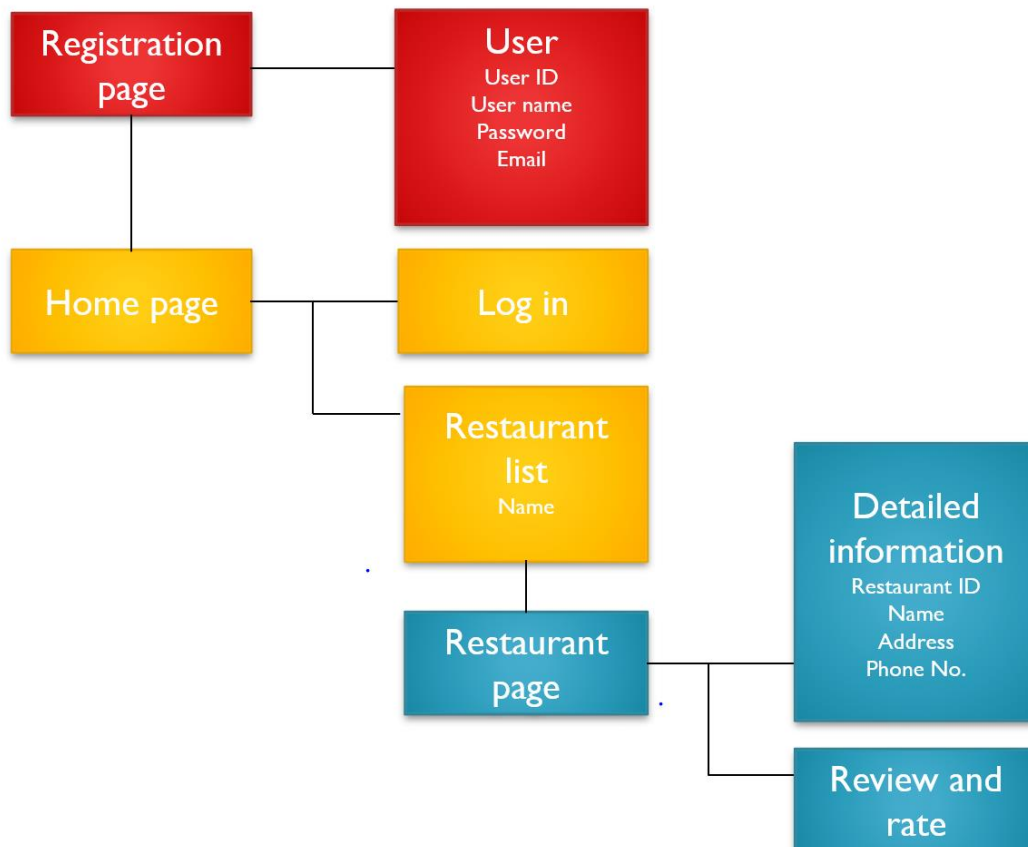
- Login: Users can login here with their username and password
- Register: new users can use this button link to the register page
- List of restaurants: this list show the name, picture, price and rating of each restaurants. Users can click restaurants' name for detail reviews. It will link to detail page.

1.2 Register page: new clients fill their information here to resister.

1.3 Detail page: users can see the review detail of restaurants here. The average rating and each review will show in this page. Users can also leave their reviews here.

2. System Overview

The basic purpose of this website is to give recommendation of restaurants to customers. This website allows customers to register and log in. There will be the list of recommended restaurants with brief introduction. Every restaurant can link to its own page with more detailed information, also in this page customers can leave the comments and give the grade of the restaurant.



We will use XML to generate data base for both customers and restaurants. The website and the server will be built by JSP. The JSP will give the output as HTML to the clients.

3. System Design

3.1 Home page

foodie

Username:
Password:

login register

Restaurant 1 ★ ★ ★ ★

Address:
Phone: --

Restaurant 2 ★ ★

Address:
Phone:

Restaurant 2 ★ ★ ★

Address:
Phone:

This home page provides website name, user login/register, general information for restaurants. Users can login with their username and password, or click register button will lead to registration page.

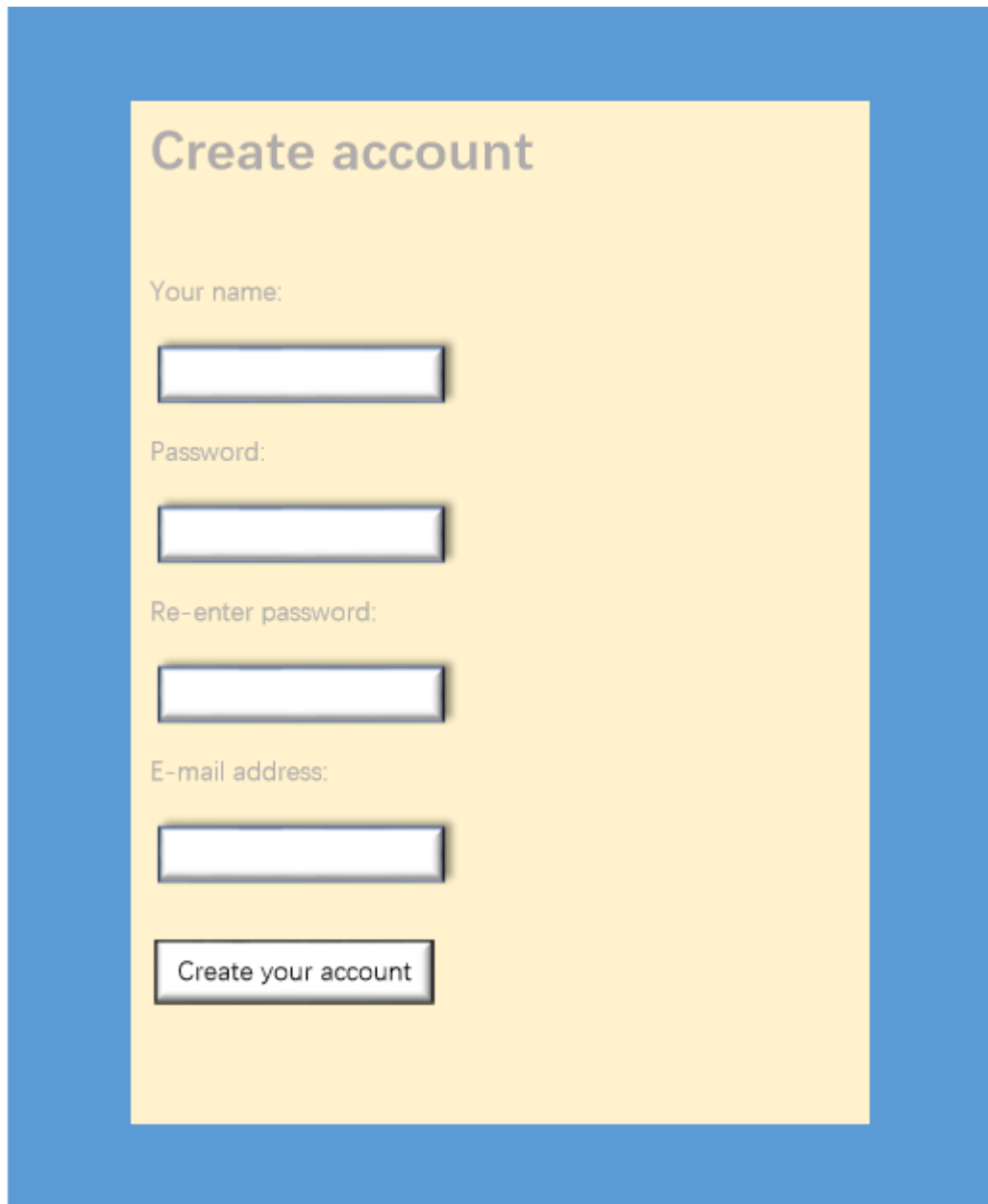
Also, the list of restaurants will show on this page. Click each column will jump to detail page for each restaurant.

3.2 Restaurants page



This page contains the details information for each restaurant. First, there will be a name, a picture and address for restaurant on the top. Then we will have reviews and ratings form each user below. Also, new comments and rate can be write and upload within this page.

3.3Registration page

The image shows a registration form titled "Create account" in a bold, dark grey font. The form is set against a light yellow background and is enclosed in a blue border. It contains four input fields: "Your name:", "Password:", "Re-enter password:", and "E-mail address:". Each field is represented by a white rectangular box with a thin black border. Below the input fields is a button labeled "Create your account" in a black rectangular box with a thin black border.

Create account

Your name:

Password:

Re-enter password:

E-mail address:

Create your account

When new user click the register button on the home page, they will jump to this page. Users need to fill in username, password and E-mail address to create a new account.

4. Data Design

Here is the database structure we are going to create for this project.

4.1 'users' table

Column Name	Data Type	Description
user_id	int(10)	User ID
username	varchar(50)	Username
password	varchar(50)	Password
email	varchar(25)	E-mail address

4.2 'restaurants' table

Column Name	Data Type	Description
res_id	int(10)	Restaurants ID
res_name	varchar(50)	Restaurant Name
res_phone	int(10)	Restaurant Phone Number
res_add	varchar(25)	Restaurant Address

4.3 'review and rate' table

Column Name	Data Type	Description
user_id	int(10)	User ID
res_id	int(10)	Restaurants ID
review	varchar(100)	Review
rate	int(5)	Rating