

Product Design and Requirement Document

ECE651- UW Foodie

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Objective

Background

Studying and working at the University of Waterloo consumes a great deal of energy. It's necessary and sometimes urgent for students and faculty to find the nearest tasty food that's available in a convenient way. A web app that collects the local food store info and provides the search function can make eating at a campus more enjoyable.

A potential customer said, No food, little hope. During the last term, after studying in my office for a whole day, I could hardly find a place on campus to feed myself. Those stores were closed or did not provide the food that I wanted. Since most of the food stores on campus are currently not accessible on google map, a web app that collects and shares the info of the local food store would be helpful.

Requirement

1. Provide information about the current food stores on campus for the students and faculty.
2. Filter the stores that users need, such as opening status, store types, etc.

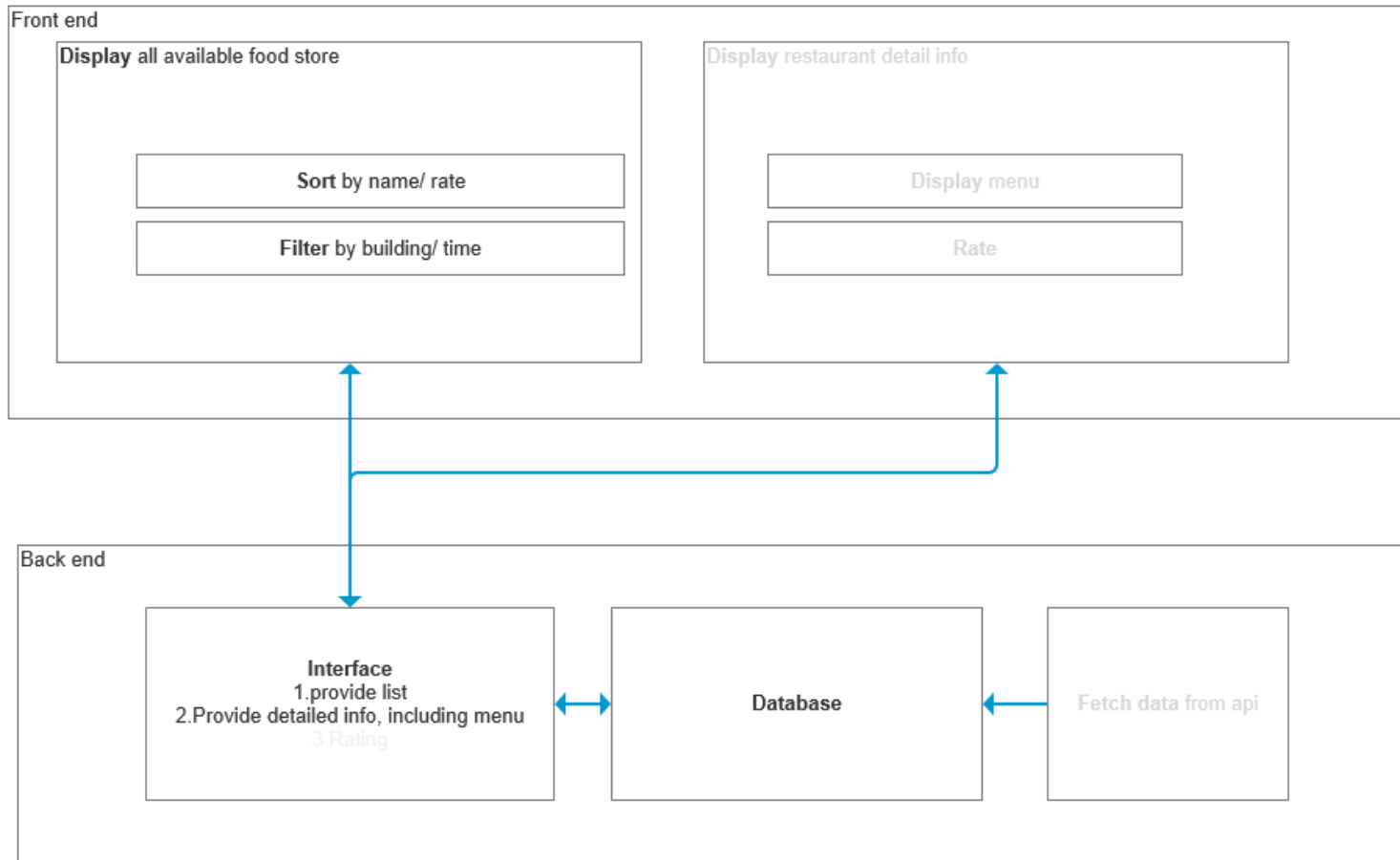
Release

Release	1.00
Date	Feb-13-2020
Content	Restaurant List Display

Release	2.00
Date	Apr-1-2020
Content	1.Restaurant detail info 2.Design optimization 3.Data fetching

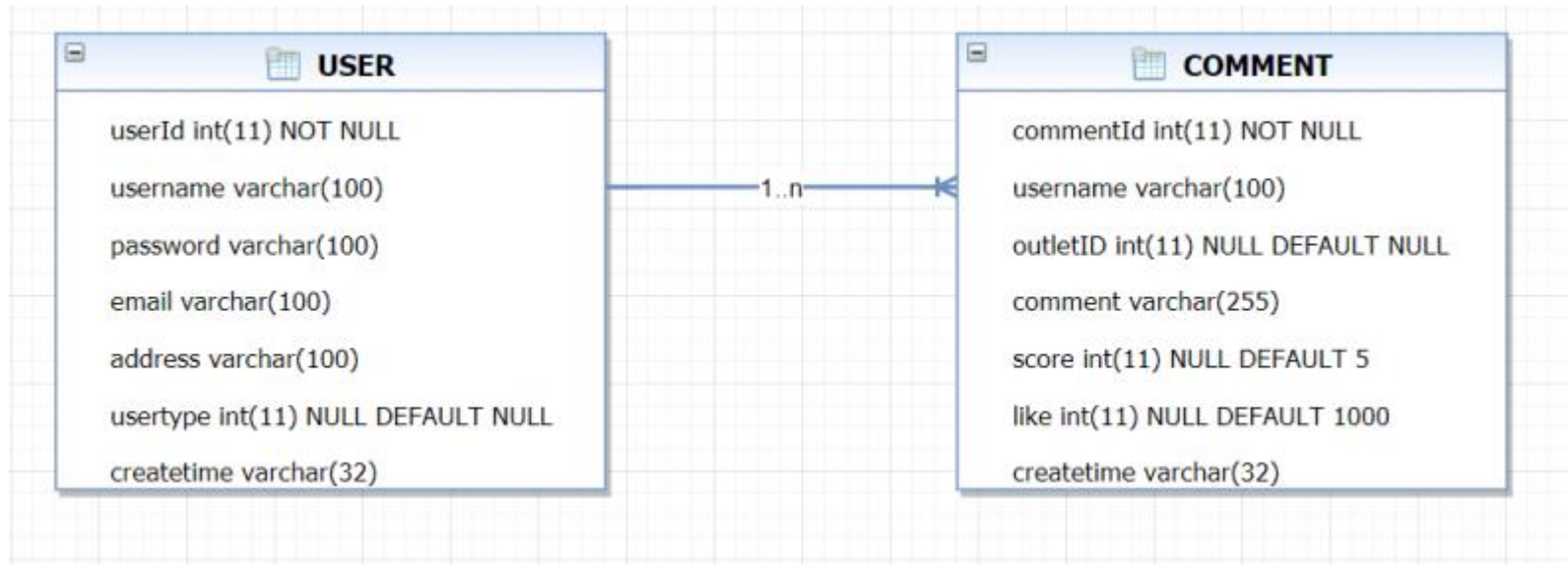
System design

Module



Database

ER Diagram



Fetch Data from API to Database

Now front end should use Node.js to fetch most of the data from API.

For comment and user info, they should store in the database and communicate with an interface.

In that way, we can ensure that all the shop info is up-to-date, while we still have the comment and user info stored safely.

Technique Requirement

Front End

React

JS

Back End

Java (JDK 1.8+)

MySQL 5.5

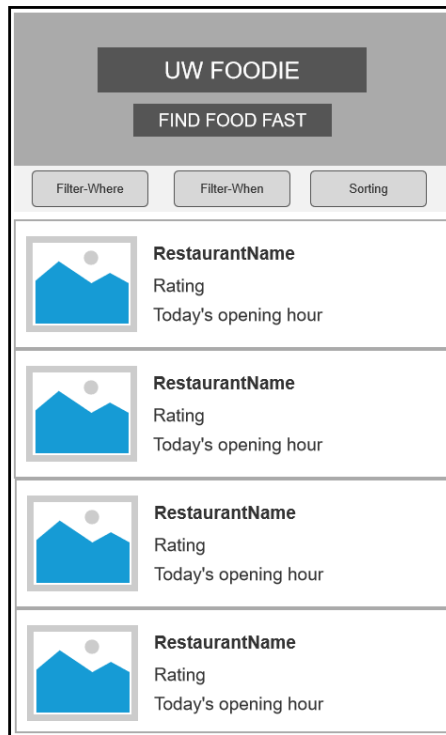
maven 3.6

Redis

User flow and Design

List page

Prototype



Default sort: by name, alphabetical. When the character number is beyond (20?), using ... after the 30 characters.

Name: show restaurant detail
Rating: Show the rating by stars plus 4.5/5.0.

Filter

Filter-Where

Building1

Building1

Building1

Building1

Building1

Building1

Building1

Building1

Building1

Filter-When

7:50

8:00

8:10

8:20

8:30

Sort

Name

Closing Time

The filters can be combined

Where to eat:
Can only choose one option. After applying the filter, the website can show all the opening stores at that location, and the filter itself changed to the location.

When to eat:
Can only choose one option. After applying the filter, the website can show all the opening stores at that time, and the filter itself changed to the time.

Sort by:

- 1. Name alphabetical, from A-Z
- 2. Closing time, from early to late

Can only choose one option. After applying the sorting option, the filter can show which sort the user has chosen.

Restaurant Detail Page

Back

RestaurantName

details

comment

Today's opening hour

Addresss

Detailed Info....

Weekly Menu

Menu day1

Menu Info....

Menu day2

Back

RestaurantName

details

comment

Name :

please enter your name

Score :

please enter number 1-5

Comment :

please enter your review

submit

User Name
Star
Comment

User Name
Star
Comment

User Name
Star
Comment

Detail Tab	Comment Tab
Shop name	Shop name
Opening hour	1.User name 2.Shop score by user 3.Shop comment by user As a form with submit button
Shop address	
Detailed shop info	
Weekly menu show by day	List view of shops comments include 1.User name 2.Shop score by user 3.Shop comment by user