



CP DELICACY

A restaurant reviewing platform for college park users

Group: Project 0504_05

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Background

Customers

- who would like to receive customized recommendations in terms of offers, reviews and payment methods, etc.

Potential Restaurant Owners

- who would like to know what type of restaurants are worthy investment and certain characteristics of competitors.

Data Resources: 59 restaurants information from
Yelp & Google Map



Introduction

Mission statement:

To build up a comprehensive restaurant information database system to serve college park's customers and potential restaurant owners with customized information and recommendations.

Mission Objectives

1

Provide users with restaurant information and optimize their decision-making process

2

Enable a customized search for users across various information parameters based on their needs

3

Maintain updated information and provide accurate feedback to its users

4

Facilitate efficiency of application for users through a user-friendly interface

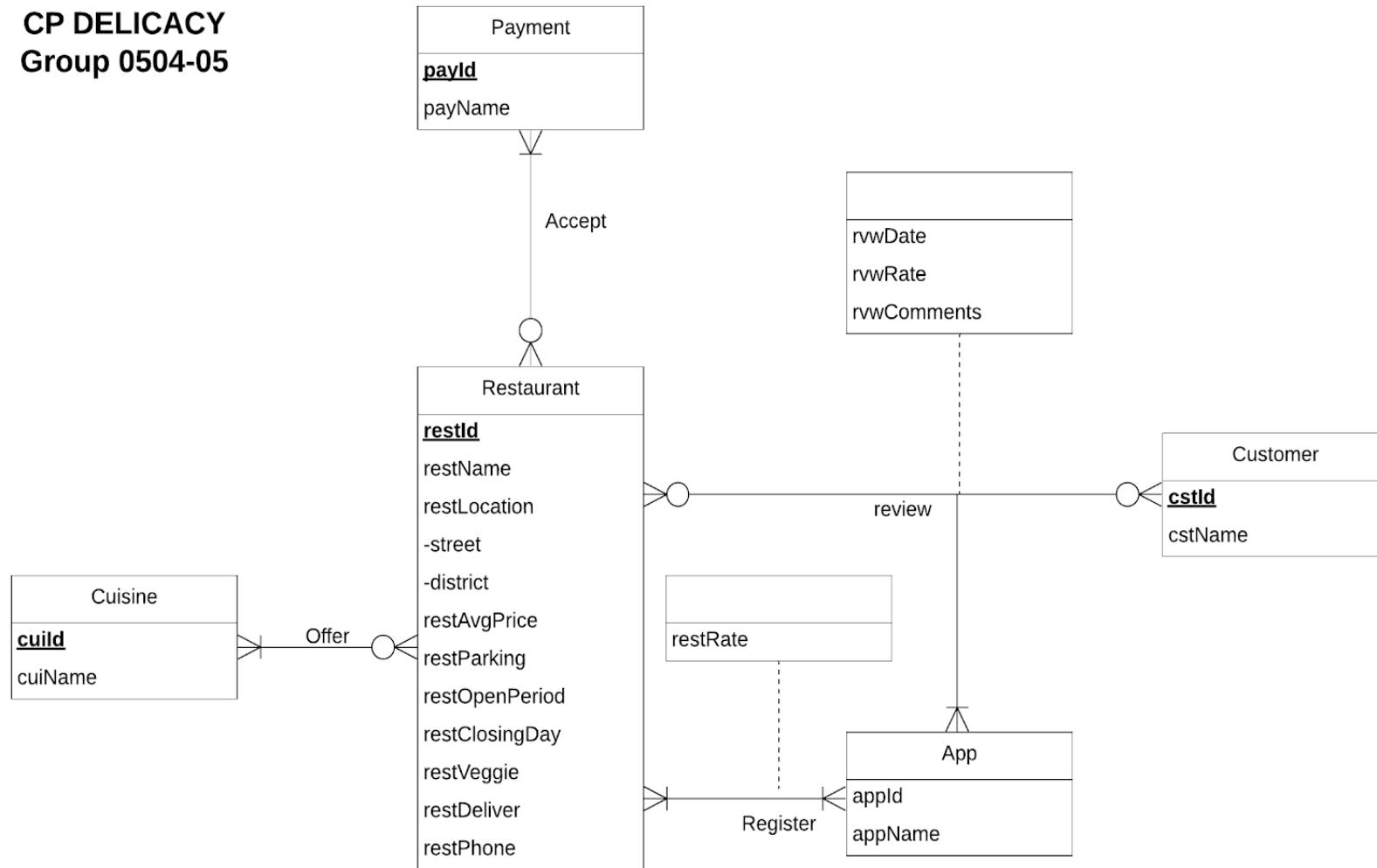
5

Minimize search time for users by optimizing data selecting process



Conceptual Database Design – ER Diagram

CP DELICACY
Group 0504-05



Entity:	Restaurant Customer Cuisine App Payment
Relationship:	Offer Register Review Accept



Logical Database Design – Relational Schema (3NF)

- Restaurant (restId,restName, street, district, restAvgPrice, restParking, restOpenPeriod, restClosingDay, restVeggie, restDeliver, restPhone)
- Cuisine(cuiId, cuiName)
- Payment(payId, payName)
- Customer(cstId, cstName, cstVeggie)
- App(appId, appName)
- Offer (restId, cuiId)
- Register(restId, appId, restRate)
- Review (restId, appId, cstId, rvwDate, rvwRate, rvwComments)
- Accept(restId,payId)



Physical Database Design

Use Offer as an example:

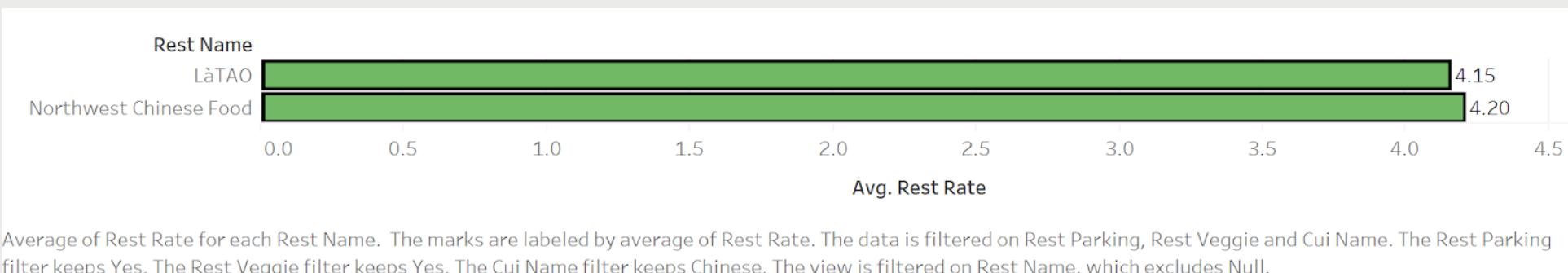
```
CREATE TABLE [CPDelicacy.Offer] (
    restId CHAR (6) NOT NULL,
    cuiId CHAR (6) NOT NULL,
    CONSTRAINT pk_Offer_restId_cuiId PRIMARY KEY (restId, cuiId),
    CONSTRAINT fk_Offer_restId FOREIGN KEY (restId)
        REFERENCES [CPDelicacy.Restaurant] (restId)
        ON DELETE CASCADE ON UPDATE CASCADE,
    CONSTRAINT fk_Offer_cuiId FOREIGN KEY (cuiId)
        REFERENCES [CPDelicacy.Cuisine] (cuiId)
        ON DELETE CASCADE ON UPDATE CASCADE );
```



Customer Case

- ❖ What restaurants are recommended to a veggie customer who drives to have lunch in a Chinese restaurant and consider restaurant rate first and then price?

```
SELECT r.*, g.AveRate  
FROM [CPDelicacy.Restaurant] r, [CPDelicacy.Offer] o, [CPDelicacy.Cuisine] u,  
(SELECT restId, AVG(Convert(float,restRate)) AS 'AveRate'  
FROM [CPDelicacy.Register]  
GROUP BY restId) g  
WHERE r.restId=o.restId AND o.cuiId = u.cuiId AND r.restId=g.restId  
AND r.restVeggie='Yes' AND u.cuiName='Chinese' AND r.restParking = 'Yes'  
ORDER BY g.AveRate DESC
```



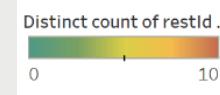
Potential Owner Case

- ❖ For each cuisine type, what are the number of restaurants that offer it and the average review rate for those restaurant group by cuisine?

```
SELECT r.*, g.AveRate  
FROM [CPDelicacy.Restaurant] r,  
[CPDelicacy.Offer] o,  
[CPDelicacy.Cuisine] u,  
(SELECT restId, AVG(Convert(float,restRate)) AS 'AveRate'  
FROM [CPDelicacy.Register]  
GROUP BY restId) g  
WHERE r.restId=o.restId AND o.cuiId = u.cuiId AND r.restId=g.restId  
AND r.restVeggie='Yes' AND u.cuiName='Chinese'  
AND r.restParking = 'Yes'  
Order by g.AveRate DESC
```

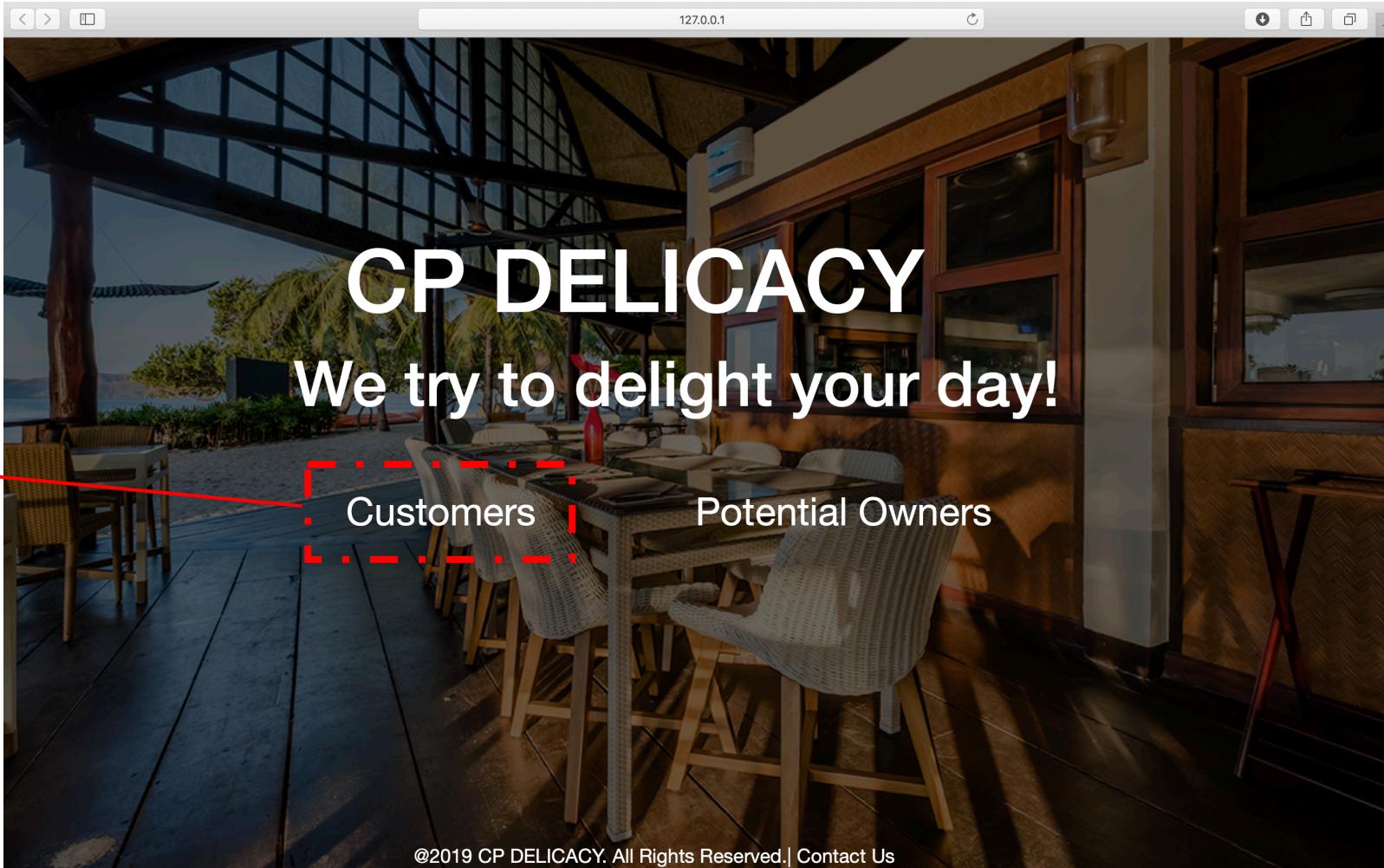


Cui Name, Average rate and distinct count of restId (CPDelicacy.Offer). Color shows distinct count of restId (CPDelicacy.Offer). Size shows distinct count of restId (CPDelicacy.Offer). The marks are labeled by Cui Name, Average rate and distinct count of restId (CPDelicacy.Offer).



Shiny Delicacy

➤ Home Page



Shiny Delicacy

➤ Customer Version

CP Delicacy - Customers																				
Name of Cuisine:			Parking allowed or not:			Payment:			Vegetarian or not:											
<input type="button" value="All"/>			<input type="button" value="All"/>			<input type="button" value="All"/>			<input type="button" value="All"/>			<input type="button" value="All"/>								
Show <input type="button" value="10"/> entries														Search: <input type="text"/>						
Restaurant	Street	District	Cuisine	Payment	Price Level	Parking	Vegetarian	Delivery	Phone Number	Application Name	Restaurant Rate	Average Restaurant Rate								
31	Aroy Thai Restaurant	4511 College Ave	College Park	Thai	creditCard	\$	No	Yes	Yes	3018645550	GoogleMaps	4.3	4.15							
46	Aroy Thai Restaurant	4511 College Ave	College Park	Thai	creditCard	\$	No	Yes	Yes	3018645550	Yelps	4	4.15							
117	Aroy Thai Restaurant	4511 College Ave	College Park	Thai	cashPayment	\$	No	Yes	Yes	3018645550	GoogleMaps	4.3	4.15							
132	Aroy Thai Restaurant	4511 College Ave	College Park	Thai	cashPayment	\$	No	Yes	Yes	3018645550	Yelps	4	4.15							
74	Bagel Place of College Park	7423 Baltimore Ave	College Park	American	creditCard	\$	No	No	No	3017793900	Yelps	4	4							
122	Bagel Place of College Park	7423 Baltimore Ave	College Park	American	cashPayment	\$	No	No	No	3017793900	Yelps	4	4							
38	Blaze Pizza	7419 Baltimore Ave	College Park	Pizza	creditCard	\$	Yes	Yes	Yes	3013922324	GoogleMaps	4.5	4.25							
49	Blaze Pizza	7419 Baltimore Ave	College Park	Pizza	creditCard	\$	Yes	Yes	Yes	3013922324	Yelps	4	4.25							
113	Blaze Pizza	7419 Baltimore Ave	College Park	Pizza	cashPayment	\$	Yes	Yes	Yes	3013922324	GoogleMaps	4.5	4.25							
150	Blaze Pizza	7419 Baltimore Ave	College Park	Pizza	cashPayment	\$	Yes	Yes	Yes	3013922324	Yelps	4	4.25							
Showing 1 to 10 of 167 entries												Previous	<input type="button" value="1"/>	2	3	4	5	...	17	Next



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➤ Potential Owner Version

CP Delicacy - Owner																				
District:			Delivery or not:			Cuisine:			Price Level:											
<input type="button" value="All"/>			<input type="button" value="All"/>			<input type="button" value="All"/>			<input type="button" value="All"/>											
Show <input type="button" value="10"/> entries														Search: <input type="text"/>						
Restaurant	Street	District	Cuisine	Payment	PriceLevel	Parking	Vegetarian	Delivery	Phone Number	Application Name	Restaurant Rate	Average Restaurant Rate								
31	Aroy Thai Restaurant	4511 College Ave	College Park	Thai	creditCard	\$	No	Yes	Yes	3018645550	GoogleMaps	4.3	4.15							
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117	Aroy Thai Restaurant	4511 College Ave	College Park	Thai	cashPayment	\$	No	Yes	Yes	3018645550	GoogleMaps	4.3	4.15							
132	Aroy Thai Restaurant	4511 College Ave	College Park	Thai	cashPayment	\$	No	Yes	Yes	3018645550	Yelps	4	4.15							
74	Bagel Place of College Park	7423 Baltimore Ave	College Park	American	creditCard	\$	No	No	No	3017793900	Yelps	4	4							
122	Bagel Place of College Park	7423 Baltimore Ave	College Park	American	cashPayment	\$	No	No	No	3017793900	Yelps	4	4							
38	Blaze Pizza	7419 Baltimore Ave	College Park	Pizza	creditCard	\$	Yes	Yes	Yes	3013922324	GoogleMaps	4.5	4.25							
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Showing 1 to 10 of 167 entries												Previous	<input type="button" value="1"/>	2	3	4	5	...	17	Next



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http://127.0.0.1:4645 | [Open in Browser](#) | [Publish](#)

CP Delicacy - Customers

Name of Cuisine:

Parking allowed or not:

Payment:

Vegetarian or not:

Show 10 entries Search:

	Restaurant	Street	District	Cuisine	Payment	Price Level	Parking	Vegetarian	Delivery	Phone Number	Application Name	Restaurant Rate	Average Restaurant Rate
31	Aroy Thai Restaurant	4511 College Ave	College Park	Thai	creditCard	\$	No	Yes	Yes	3018645550	GoogleMaps	4.3	4.15
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Showing 1 to 10 of 167 entries

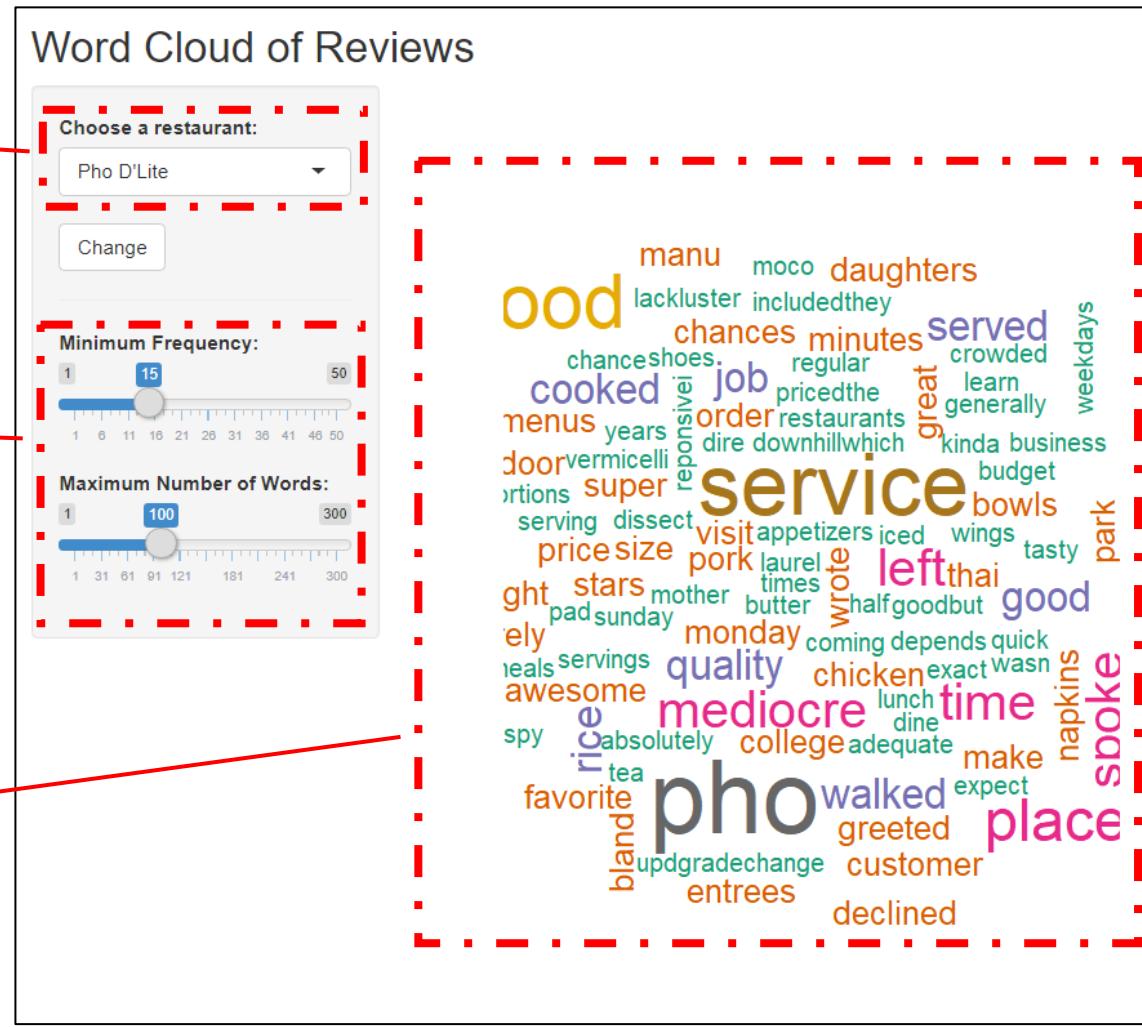
Previous [1](#) [2](#) [3](#) [4](#) [5](#) ... [17](#) Next



Shiny Delicacy

➤ Words Clouds

1. Choose the restaurant in your mind 
 2. Adjust the amount of comments you wish to see
 3. With one tap on “change”, user obtains the most frequent impression of any restaurant in accordance to word size.



Thank you for listening

Q&A

Go with us and register right now!
Win yourself big prize!



Roger is watching you