🔥 Speedy Foods. 🌬️

Great Speed for Great Needs.

Milestone 4(a): Implementation

Course: CMPT 354
Group: 41
July 2nd

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above.

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by Simon Fraser University.

A short description of the final project, and what it accomplished:

In milestone 4, we have built a complete application that has food delivery functionalities.
Technology:
Our team built a full stack application with html, python's Flask API framework and mysql database.

Usage:
- Users can:
    - register accounts by entering their email, address and credit card information
    - Place orders from a restaurant
    - Rate restaurants

- Restaurant owners can
- register their companies with our app
    - Add dishes to their restaurants

- The app allows you to can view all users in database
- Search for item from a restaurant
- Data validation on client and server side

A description of how your final schema differed from the schema you turned in.
- **Rubric:** Differences between the final schema and the proposed schemas are clearly and thoughtfully explained.

Throughout our planning and development process, we have mostly used the schema that we turned in except for minor changes.
Some changes that we've made:
- Separated Zip from Address into its own table since it can be a repeated value
- Separated city_name from Address into its own table since it can be a repeated value
- Added the auto keyword to timestamp and primary keys. This allows MySQL to handle indexing and creating time more efficiently than inserting these values programmatically.
- Removed functional dependencies from credit card number Bank Identification Number (BIN). BIN is the first 6 values of every credit card number and this value contains information about the credit cards bank provider, credit card type (visa, mastercard), and whether or not it is debit or credit. Since this value can be shared by multiple different credit cards, we have separated Card_BIN6 into its own table from card_all.

- Previously, restaurants were a simple entity but we have changed it so that it must be owned/managed by a manager. For every restaurant in Restaurant table, it now has a foreign key that points to a manager in the User table. This value is provided in the restaurant sign up form.
- At first, we wanted to create tables to contain items (dishes with price) specifically for a restaurant (restaurant menu for users to order from), but we have improved it by creating a single Item table to contain all Items from all restaurants. Each item in Item table has a foreign key that points to a restaurant. Restaurant Items/Menu can be retrieved by simply writing a join query to find which restaurant the item belongs to.
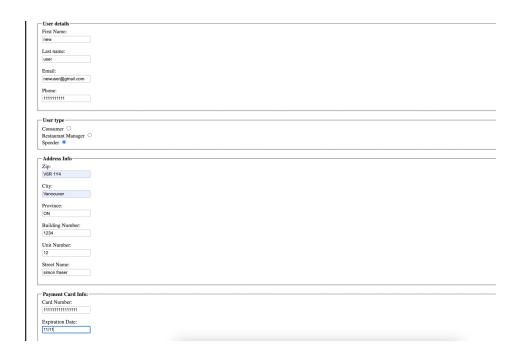
Overall we kept the original schema form. Our improvements led to creating even tables, which made the coding implementation harder because we have to write more checks and insert data to more tables.

SCREENSHOTS:

Before inserting Table:

2 Alyvia	Cuevas	AlyviaCuevas1@outlook.com	5503976917	2
3 Neil	Haney	NeilHaney5@hotmail.com	2823810826	2
4 Abdiel	Levine	AbdielLevine2@hotmail.com	2319532794	0
5 Francis	Floyd	FrancisFloyd2@outlook.com	1563461453	1
6 Annabel	Downs	AnnabelDowns5@hotmail.com	4453556155	0
7 Catalina	Suarez	CatalinaSuarez1@yahoo.com	1808379525	0
8 Brian	Dalton	BrianDalton1@outlook.com	6625843927	1
9 Jaidyn	Spears	JaidynSpears6@hotmail.com	9716140504	2
10 King	Frank	KingFrank3@hotmail.com	2264652751	0
11 Morgan	Nichols	MorganNichols7@yahoo.com	4748091420	2
12 Rayna	Delgado	RaynaDelgado0@yahoo.com	5000248604	1
13 Rayna	Delgado	RaynaDelgado2@gmail.com	6604973705	0
14 Karina	Bryant	KarinaBryant3@outlook.com	3509226405	0
15 Jazlynn	Bauer	JazlynnBauer9@outlook.com	9273061597	2
16 Kenyon	Osborne	KenyonOsborne8@gmail.com	9889939423	2
17 Jazlynn	Bauer	JazlynnBauer8@gmail.com	2920358383	2
18 Marcelo	Hubbard	MarceloHubbard2@hotmail.com	4513357538	1
19 Jan	Estrada	JanEstrada3@yahoo.com	4946251919	0
20 Madilynn	Berger	MadilynnBerger8@gmail.com	1466329666	0
21 Ben	Smus	bensmus@gmail.com	7789791499	0
22 Ben	Smus	bensmus@gmail.com	7789791499	0
23 Ben	Smus	bensmus@gmail.com	7789791499	0
24 tonny	smith	tonnysmith@gmail.com	7787133333	0
25 tonny	smith	tonnysmith@gmail.com	7787133333	0
26 tonny	smith	tonnysmith@gmail.com	7787133333	0
27 Ben	Smus	bensmus@gmail.com	7789791499	0
28 Ben	Smus	bensmus@gmail.com	7789791499	0
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34 Ben	Smus	bensmus@gmail.com	7789791499	0
35 Ben	Smus	bensmus@gmail.com	7789791499	0
36 Ben	Smus	bensmus@gmail.com	7789791499	0

Inserting data values:

User details

First Name:

new

Last name:

user

Email:

newuser@gmail.com

Phone:

1111111111

User type

Consumer ○
Restaurant Manager ○
Speeder ●

Address Info

Zip:

V6R 1Y4

City:

Vancouver

Province:

ON

Building Number:

1234

Unit Number:

12

Street Name:

simon fraser

Payment Card Info:

Card Number:

1111111111111111

Expiration Date:

11/11

After inserting Values

1 Kenzie	West	KenzieWest1@outlook.com	7420672169	0
2 Alyvia	Cuevas	AlyviaCuevas1@outlook.com	5503976917	2
3 Neil	Haney	NeilHaney5@hotmail.com	2823810826	2
4 Abdiel	Levine	AbdielLevine2@hotmail.com	2319532794	0
5 Francis	Floyd	FrancisFloyd2@outlook.com	1563461453	1
6 Annabel	Downs	AnnabelDowns5@hotmail.com	4453556155	0
7 Catalina	Suarez	CatalinaSuarez1@yahoo.com	1808379525	0
8 Brian	Dalton	BrianDalton1@outlook.com	6625843927	1
9 Jaidyn	Spears	JaidynSpears6@hotmail.com	9716140504	2
10 King	Frank	KingFrank3@hotmail.com	2264652751	0
11 Morgan	Nichols	MorganNichols7@yahoo.com	4748091420	2
12 Rayna	Delgado	RaynaDelgado0@yahoo.com	5000248604	1
13 Rayna	Delgado	RaynaDelgado2@gmail.com	6604973705	0
14 Karina	Bryant	KarinaBryant3@outlook.com	3509226405	0
15 Jazlynn	Bauer	JazlynnBauer9@outlook.com	9273061597	2
16 Kenyon	Osborne	KenyonOsborne8@gmail.com	9889939423	2
17 Jazlynn	Bauer	JazlynnBauer8@gmail.com	2920358383	2
18 Marcelo	Hubbard	MarceloHubbard2@hotmail.com	4513357538	1
19 Jan	Estrada	JanEstrada3@yahoo.com	4946251919	0
20 Madilynn	Berger	MadilynnBerger8@gmail.com	1466329666	0
21 Ben	Smus	bensmus@gmail.com	7789791499	0
22 Ben	Smus	bensmus@gmail.com	7789791499	0
23 Ben	Smus	bensmus@gmail.com	7789791499	0
24 tonny	smith	tonnysmith@gmail.com	7787133333	
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35 Ben	Smus	bensmus@gmail.com	7789791499	0
36 Ben	Smus	bensmus@gmail.com	7789791499	0
37 new	user	newuser@gmail.com	1111111111	2