

# CPSC 304 Project Cover Page

Milestone #: 4

Date: December 1st 2023

Group Number: 12

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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 the case of Project Milestone 0, the main purpose of this page is for you to let us know your email address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

1. 1. A brief (~2-3 sentences) summary of your project.  
Our project is on designing a database for a chain pet salon, "Furry Friends Grooming Salon" where pet owners can book reservations for their pets to receive haircuts, nail services, teeth cleaning and shampoo and ear cleaning services. Service providers would be able to view their appointments for the day, the room for the service they will be providing in and available products for use. Executives and managers would be able to manage the branch(es), and the employees.
2. Link to the repository.  
[https://github.students.cs.ubc.ca/CPSC304-2023W-T1/project\\_l5e2b\\_x1d1q\\_y7z8e.git](https://github.students.cs.ubc.ca/CPSC304-2023W-T1/project_l5e2b_x1d1q_y7z8e.git)
3. How has the schema changed?  
We changed the schema by adding new tables like User and Workschedule. We did this because we wanted a login system and that needed to store Users of all different types such as PetOwners, ServiceProviders, and Administrators. We also created a WorkSchedule table to have more detail when it comes to ServiceProviders scheduling as being limited to a single string in the previous table was too limiting. Next we changed the domains of dateDateTimeService and dateDateTimeBooked in Reservation to VARCHARS as we found the DATE format to be too cumbersome (with the use of TO\_DATE). We also changed around how the foreign key relationship between Branch1 and Branch2 behave, and thought it would make more logical sense for Branch1 to have an FK constraint to Branch2.

## Copy of schema

Our schema is:

```
PetOwner(POName, POAddress, POPhoneNumber)
OwnsPet(AID, PName, PAge, PSize, PType, POName, POPhoneNumber)
Branch2(branchName, streetAddress, city, postalCode, province)
Branch1(branchName, day, startTime, endTime)
ServiceProvider(SIN, name, branchName, dogAndCat, dogOnly, catOnly)
Room1(RoomType, RSize)
Room2(RoomNumber, RoomType)
Services(ServicesID, ServicesName, BaseAmount, FinalRate, Duration)
RoomsHasServices(RoomNumber, ServicesID)
Services_Inventory1(ProductName, ProductType)
Services_Inventory2(ProductCode, Quantity, ProductName, ServicesID)
Reservation(RID, dateDateTimeService, dateDateTimeBooked, AID, POPhoneNumber, POName, servicesID, serviceProviderSIN)
```

Haircut(ServicesID, HaircutFurType, FurLength)  
NailServices(ServicesID, Sensitivity)  
TeethCleaning(ServicesID, DentalCondition)  
ShampooAndEarCleaning(ServicesID Cleanliness, SECfurType)  
Users(id, email, password, role, **POPhoneNumber**, **POName**, **SID**)  
WorkSchedule(**SIN**, **day**, startTime, endTime)

What tuples are populated in the schema:

```
[SQL> select table_name from user_tables
[ 2 ;
TABLE_NAME
-----
BRANCH1
SERVICEPROVIDER
ROOM1
ROOM2
SERVICES
ROOMSHASSERVICES
SERVICES_INVENTORY1
SERVICES_INVENTORY2
HAIRCUT
NAILSERVICES
TEETHCLEANING

TABLE_NAME
-----
SHAMPOOANDEARCLEANING
RESERVATION
USERS
WORKSCHEDULE
PETOWNER
OWNSPET
BRANCH2
TITLES

19 rows selected.
```

```

SQL> SELECT * from PetOwner
2 ;
PONAME
-----
POADDRESS          POPHONENUM
-----
George            7781112222
5255 Main Mall Vancouver BC
Justin Bieber     6047891287
2424 Main Mall Vancouver BC
Taylor Swift      7781236788
4600 Cambie St Vancouver BC

PONAME
-----
POADDRESS          POPHONENUM
-----
Soulja Boy        2362319900
9 Avenue Southwest Calgary AB
Doja Cat          6043218899
13450 104 Ave Surrey BC
Mariah Carey       7782139900
6111 River Rd Richmond BC

6 rows selected.

```

```

SQL> SELECT * from OwnsPet;
AID PNAME          PAGE PSIZE    PTYPE
-----
PONAME          POPHONENUM
-----
1 Buttercup      1 small     dog
Justin Bieber   6047891287
2 Olivia Benson  2 small     cat
Taylor Swift     7781236788
3 Swag           5 large     dog
Soulja Boy       2362319900

AID PNAME          PAGE PSIZE    PTYPE
-----
PONAME          POPHONENUM
-----
4 Kitty          1 large     cat
Doja Cat         6043218899
5 Chantelle      3 medium    dog
Mariah Carey     7782139900

```

```
SQL> SELECT * from Branch2;
```

BRANCHNAME	CITY	POSTALC
Vancouver Kitsilano 2800 McDonald St British Columbia	Vancouver	V6K 3Y2
Downtown Calgary 328 Centre St S Alberta	Calgary	T2G 4X6

```
SQL> SELECT * from Branch1;
```

BRANCHNAME	DAY	STARTTIME	ENDTIME
Vancouver Kitsilano	Monday	9AM	7PM
Vancouver Kitsilano	Tuesday	9AM	7PM
Vancouver Kitsilano	Wednesday	9AM	7PM
Vancouver Kitsilano	Thursday	9AM	7PM
Vancouver Kitsilano	Friday	9AM	7PM
Downtown Calgary	Monday	9AM	7PM
Downtown Calgary	Tuesday	9AM	7PM
Downtown Calgary	Wednesday	9AM	7PM
Downtown Calgary	Thursday	9AM	7PM
Downtown Calgary	Friday	9AM	7PM
Richmond Aberdeen	Monday	9AM	6PM
Richmond Aberdeen	Tuesday	9AM	6PM
Richmond Aberdeen	Wednesday	9AM	6PM
Richmond Aberdeen	Thursday	9AM	6PM
Richmond Aberdeen	Friday	9AM	6PM
Surrey Central	Monday	9AM	7PM
Surrey Central	Tuesday	9AM	7PM
Surrey Central	Wednesday	9AM	7PM
Surrey Central	Thursday	9AM	7PM
Surrey Central	Friday	9AM	7PM
Country Hills Calgary	Monday	9AM	7PM
Country Hills Calgary	Tuesday	9AM	7PM
Country Hills Calgary	Wednesday	9AM	7PM
Country Hills Calgary	Thursday	9AM	7PM

BRANCHNAME	DAY	STARTTIME	ENDTIME
Richmond Aberdeen	Tuesday	9AM	6PM
Richmond Aberdeen	Wednesday	9AM	6PM
Richmond Aberdeen	Thursday	9AM	6PM
Richmond Aberdeen	Friday	9AM	6PM
Surrey Central	Monday	9AM	7PM
Surrey Central	Tuesday	9AM	7PM
Surrey Central	Wednesday	9AM	7PM
Surrey Central	Thursday	9AM	7PM
Surrey Central	Friday	9AM	7PM
Country Hills Calgary	Monday	9AM	7PM
Country Hills Calgary	Tuesday	9AM	7PM
Country Hills Calgary	Wednesday	9AM	7PM
Country Hills Calgary	Thursday	9AM	7PM

BRANCHNAME	DAY	STARTTIME	ENDTIME
Country Hills Calgary	Wednesday	9AM	7PM
Country Hills Calgary	Thursday	9AM	7PM

24 rows selected.

```
SQL> SELECT * from ServiceProvider;
```

SIN NAME	BRANCHNAME
DOGANDCAT DOGONLY CATONLY	
921343111 Gertrude 1 0 0	Vancouver Kitsilano
123456789 Jerry 1 0 0	Downtown Calgary
987654321 Tom 1 0 0	Richmond Aberdeen

SIN NAME	BRANCHNAME
DOGANDCAT DOGONLY CATONLY	
882671423 Boris 1 0 0	Surrey Central
111222333 Alice 1 0 0	Country Hills Calgary

```
[SQL> SELECT * from Room1;
```

ROOMTYPE	RSIZE
shampoo room	medium
haircut room	small
teeth cleaning room	large
nail service room	small
ear cleaning room	medium

```
[SQL> SELECT * from Room2;
```

ROOMNUMBER ROOMTYPE
101 shampoo room
102 haircut room
103 teeth cleaning room
104 nail service room
105 ear cleaning room

```
[SQL> SELECT * from Services;
```

SERVICESID SERVICESNAME	BASEAMOUNT	FINALRATE	DURATION
1 Everything	50	60	40
2 Everything	50	70	80
3 Everything	50	70	80
4 Everything	50	75	100
5 Everything	50	65	60

```
[SQL> SELECT * from RoomsHasServices;
```

ROOMNUMBER	SERVICESID
------------	------------

101	1
102	2
103	3
104	4
105	5

```
[SQL> SELECT * from Services_Inventory1;
```

PRODUCTNAME	PRODUCTTYPE
-------------	-------------

Flea B Gone	hairspray
2-in-1 for furry friends	shampoo
3-in-1 for furry friends	mousse
Shiny Coat Lover	shampoo
Snazzy Shine	conditioner

```
[SQL> SELECT * from Services_Inventory2;
```

PRODUCTCODE	QUANTITY	PRODUCTNAME	SERVICESID
-------------	----------	-------------	------------

1	low	Flea B Gone	1
2	half	2-in-1 for furry friends	2
3	full	3-in-1 for furry friends	3
4	empty	Shiny Coat Lover	4
5	low	Snazzy Shine	5

```
[SQL> SELECT * from Haircut;
```

SERVICESID	HAIRCUTFUR	FURLENGTH
------------	------------	-----------

1	soft	1.2
2	soft	1
3	rugged	3
4	rugged	.8
5	hairless	0

```
[SQL> SELECT * from NailServices
```

```
[ 2 ;
```

SERVICESID	SENSITIVIT
------------	------------

1	low
2	high
3	medium
4	low
5	high

```
[SQL]> SELECT * from TeethCleaning;
```

SERVICESID	DENTALCONDITION
------------	-----------------

1	good
2	excellent
3	poor
4	very poor
5	poor

```
[SQL]> SELECT * from ShampooAndEarCleaning;
```

SERVICESID	CLEANLINESS	SECFURTYPE
------------	-------------	------------

1	excellent	soft
2	good	soft
3	good	rugged
4	poor	rugged
5	poor	hairless

```

SQL> SELECT * from Users;
      ID EMAIL
-----+
PASSWORD      ROLE PONAME      POPHONENUM
-----+
      SIN
-----+
      1 admin@cpsc.com      2
admin123
      2 customer@cpsc.com      0 George      7781112222
pass1
      ID EMAIL
-----+
PASSWORD      ROLE PONAME      POPHONENUM
-----+
      SIN
-----+
      3 sp@cpsc.com      1
pass2      111222333
      4 JB@cpsc.com      0 Justin Bieber      6047891287
jb123
      ID EMAIL
-----+
PASSWORD      ROLE PONAME      POPHONENUM
-----+
      SIN
-----+
      5 TS@cpsc.com      0 Taylor Swift      7781236788
ts123
      6 SB@cpsc.com
      ID EMAIL
-----+
PASSWORD      ROLE PONAME      POPHONENUM
-----+
      SIN
-----+
      7 DC@cpsc.com      0 Soulja Boy      2362319900
sb123
      8 MC@cpsc.com      0 Doja Cat      6043218899
dc123
      ID EMAIL
-----+
PASSWORD      ROLE PONAME      POPHONENUM
-----+
      SIN
-----+
      9 Gertrud@cpsc.com      1
ge123      921343111
      ID EMAIL
-----+
PASSWORD      ROLE PONAME      POPHONENUM
-----+
      SIN
-----+
      10 Jerry@cpsc.com      1
je123      123456789
      11 Tom@cpsc.com      1
to123
      ID EMAIL
-----+
PASSWORD      ROLE PONAME      POPHONENUM
-----+
      SIN
-----+
      12 Boris@cpsc.com      1
bo123      882671423
      13 Alice@cpsc.com
      ID EMAIL
-----+
PASSWORD      ROLE PONAME      POPHONENUM
-----+
      SIN
-----+
      111222333      1
a1123      111222333
      13 rows selected.

```

```

[SQL]> SELECT * from WorkSchedule;
      SIN DAY      START ENDTI
-----+
      921343111 Monday      10AM  5PM
      123456789 Tuesday      9AM   6PM
      987654321 Wednesday    10AM  5PM
      882671423 Thursday     10AM  5PM
      111222333 Monday       9AM   4PM
      111222333 Tuesday      9AM   4PM
      111222333 Sunday        10AM  6PM
      7 rows selected.

```

## Queries

### INSERT

### [CreatePet.vue:83](#)

Before:

All Pets							CREATE PET	RESET PET TABLE	
AID	Name	Age	Size	Type	Owner Name	Owner Phn#			
1	Buttercup	1	small	dog	Justin Bieber	6047891287			
2	Olivia Benson	2	small	cat	Taylor Swift	7781236788			
3	Swag	5	large	dog	Soulja Boy	2362319900			
4	Kitty	1	large	cat	Doja Cat	6043218899			
5	Chantelle	3	medium	dog	Mariah Carey	7782139900			

During:

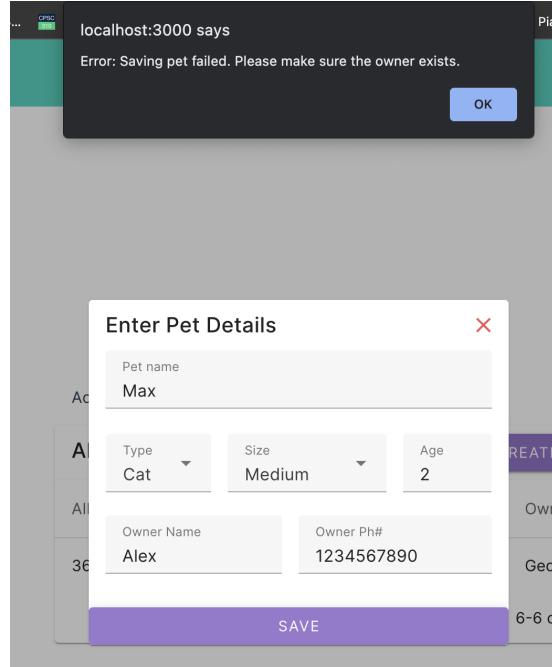
Enter Pet Details

Pet name	Alice				
Type	Dog	Size	Small	Age	5
Owner Name	George	Owner Ph#	7781112222		
<button>SAVE</button>					

After:

All Pets							CREATE PET	RESET PET TABLE	
AID	Name	Age	Size	Type	Owner Name	Owner Phn#			
36	Alice	5	small	dog	George	7781112222			
Items per page: 5 1-6 of 6  < < > >									

During and After (failure case):



## DELETE

[UsersTable.vue:78](#)

Before (Delete tooltip is hovering over ID 4's row):

User Accounts							
ID	Email	Password	Role	Name	Phone Number	SIN (hash)	Actions
To create a user account for a Customer or Service Provider, you must first add the individual to the Pet Owner or Service Provider tables.							
1	admin@cpsc.com	*****	Admin				
2	customer@cpsc.com	*****	Pet Owner	George	7781112222		
3	sp@cpsc.com	*****	Service Provider			1g07e9e	
4	JB@cpsc.com	*****	Pet Owner	Justin Bieber	6047891287		
5	TS@cpsc.com	*****	Pet Owner	Taylor Swift	7781236788		
7	DC@cpsc.com	*****	Pet Owner	Doja Cat	6043218899		
8	MC@cpsc.com	*****	Pet Owner	Mariah Carey	7782139900		
9	Gertrud@cpsc.com	*****	Service Provider			1jafnyv	
10	Jerry@cpsc.com	*****	Service Provider			145bned	
11	Tom@cpsc.com	*****	Service Provider			xltcln	

Before (ID 4's pet has AID=1):

Furry Friends Grooming Salon

Database Management

- User Account Table
- Branch Tables
- Service Providers Tables
- Services Table
- Reservations Table
- Pets Table

Account Info | Manage Database

**All Pets**

AID	Name	Age	Size	Type	Owner Name	Owner Phn#
1	Buttercup	1	small	dog	Justin Bieber	6047891287
2	Olivia Benson	2	small	cat	Taylor Swift	7781236788
3	Swag	5	large	dog	Soulja Boy	2362319900
4	Kitty	1	large	cat	Doja Cat	6043218899
5	Chantelle	3	medium	dog	Mariah Carey	7782139900

Items per page: 5 | 1-5 of 5 | < > >>

After (ID 4 row is gone):

Furry Friends Grooming Salon

Database Management

- User Account Table
- Branch Tables
- Service Providers Tables
- Services Table
- Reservations Table
- Pets Table

Account Info | Manage Database

**User Accounts**

To create a user account for a Customer or Service Provider, you must first add the individual to the Pet Owner or Service Provider tables.

ID	Email	Password	Role	Name	Phone Number	SIN (hash)	Actions
1	admin@cpsc.com	*****	Admin				🔗 🗑
2	customer@cpsc.com	*****	Pet Owner	George	7781112222		🔗 🗑
3	sp@cpsc.com	*****	Service Provider			1g02e9e	🔗 🗑
5	TS@cpsc.com	*****	Pet Owner	Taylor Swift	7781236788		🔗 🗑
6	SB@cpsc.com	*****	Pet Owner	Soulja Boy	2362319900		🔗 🗑
7	DC@cpsc.com	*****	Pet Owner	Doja Cat	6043218899		🔗 🗑
8	MC@cpsc.com	*****	Pet Owner	Mariah Carey	7782139900		🔗 🗑
9	Gertrud@cpsc.com	*****	Service Provider			tjafnyv	🔗 🗑
10	Jerry@cpsc.com	*****	Service Provider			145bned	🔗 🗑
11	Tom@cpsc.com	*****	Service Provider			xltc1h	🔗 🗑

Items per page: 10 | 1-10 of 12 | < < > >>

After (ID's 4 pet with AID=1 is also gone):

Furry Friends Grooming Salon

Database Management

- User Account Table
- Branch Tables
- Service Providers Tables
- Services Table
- Reservations Table
- Pets Table

Account Info | Manage Database

All Pets

**CREATE PET** **RESET PET TABLE**

AID	Name	Age	Size	Type	Owner Name	Owner Phn#
2	Olivia Benson	2	small	cat	Taylor Swift	7781236788
3	Swag	5	large	dog	Soulja Boy	2362319900
4	Kitty	1	large	cat	Doja Cat	6043218899
5	Chantelle	3	medium	dog	Mariah Carey	7782139900

Items per page: 5 1-4 of 4 < < > >

## UPDATE

UserView.vue:65 (placeholder)

Before:

Furry Friends Grooming Salon

Account Info | My Pets and Reservations

Welcome, pet lover!

My Pets

**HIDE PETS** **ADD PET**

Buttercup

Max

Pet name	Type	Size	Age
Max	cat	small	2

Reservations

**ADD RESERVATION**

res 1

**EDIT PET** **REMOVE PET**

During: (Edited size to large and age to 3)

Furry Friends Grooming Salon

Account Info | My Pets and Reservations

Welcome, pet lover!

My Pets

**HIDE PETS** **ADD PET**

Buttercup

Max

Pet name	Type	Size	Age
Max	cat	Large	3

Reservations

**ADD RESERVATION**

res 1

**SAVE PET** **REMOVE PET**

After:

The screenshot shows the 'My Pets' section of the application. At the top, there is a navigation bar with a logo and the text 'Furry Friends Grooming Salon'. Below the navigation bar, the page title is 'Account Info | My Pets and Reservations' and the greeting 'Welcome, pet lover!'. The main content area is titled 'My Pets' and contains two sections: 'Buttercup' and 'Max'. Under 'Buttercup', there is a table with columns for Pet name (Max), Type (cat), Size (large), and Age (3). Under 'Max', there is a table with columns for Pet name (Max), Type (cat), Size (large), and Age (3). Below these tables is a 'Reservations' section with a table containing one row labeled 'res 1'. At the bottom of the section are buttons for 'EDIT PET' and 'REMOVE PET'.

## SELECTION

[ReservationTable.vue:46](#)

Before:

The screenshot shows the 'Reservations Table' section of the application. At the top, there is a navigation bar with the text 'Account Info | Manage Database'. Below the navigation bar, the page title is 'Reservations Table'. The main content area is a table with columns: RID, Date/Time of Service, AID, PO Phone Number, PO Name, servicesID, and SIN (hash). The table contains six rows of data. At the bottom of the table, there is a pagination control with the text 'Items per page: 10 ▾ 1-6 of 6 [ < < > > ]'.

RID	Date/Time of Service	AID	PO Phone Number	PO Name	servicesID	SIN (hash)
1	2023-12-10 14:00:00	1	7781112222	George	1	111222333
2	2023-10-31 12:00:00	1	6047891287	Justin Bieber	1	921343111
3	2023-10-31 13:00:00	2	7781236788	Taylor Swift	2	123456789
4	2023-11-11 15:30:00	3	2362319900	Soulja Boy	3	987654321
5	2023-11-12 10:15:00	4	6043218899	Doja Cat	4	882671423
6	2024-01-16 14:00:00	5	7782139900	Mariah Carey	5	111222333

During:

Account Info | Manage Database

**Reservations Table**

RID	Date/Time of Service
1	2023-12-10 14:00:00
2	2023-10-31 12:00:00
3	2023-10-31 13:00:00
4	2023-11-11 15:00:00
5	2023-11-12 10:00:00
6	2024-01-16 14:00:00

**Filter by**

Pet Owner Name  
Justin Bieber

Combination  
OR

Pet Owner Phone Number  
6047891287

Combination  
AND

SIN  
921343111

**CREATE** **FILTER** **RESET**

servicesID	SIN (hash)
1	111222333
1	921343111
2	123456789
3	987654321
4	882671423
5	111222333

Items per page: 10 | < < > >| 1-6 of 6

SAVE

After:

Account Info | Manage Database

**Reservations Table**

RID	Date/Time of Service	AID	PO Phone Number	PO Name	servicesID	SIN (hash)
2	2023-10-31 12:00:00	1	6047891287	Justin Bieber	1	921343111

**CREATE** **FILTER** **RESET**

Items per page: 10 | < < > >| 1-1 of 1

10 | < < > >| 1-1 of 1