# **CPSC 304 Project Cover Page**

Milestone #: 2

Date: July 27, 2022

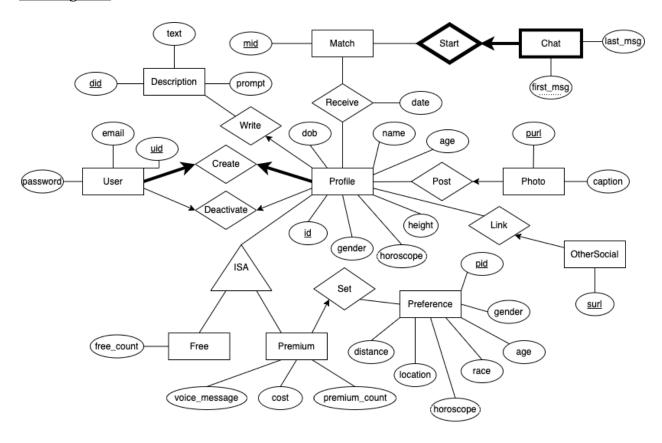
Group Number: 11

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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 e-mail 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

### ER Diagram:



In milestone 2, we changed our ER diagram by adding the dob (date of birth), age, and horoscope attributes to Profile and added the age and horoscope attributes to the Preference entity. This is because we wanted to have more meaningful functional dependencies and thought it made more sense for a profile to include details such as these.

### **Table Schemas:**

Description(did: integer, text: char(150), prompt: char(50))

ProfileWrite(<u>id</u>: <u>integer</u>, name: char(20), height: integer, gender: char(6), dob: date, age: integer, horoscope: char(10), **did**: **integer**)

Match(mid: integer)

ChatStart(<u>first msg: char(80)</u>, <u>mid: integer</u>, last msg: char(80))

Receive(mid: integer, id: integer, date: date)

ProfileCreate(id: integer, name: char(20), height: integer, gender: char(6), dob: date, age: integer,

horoscope: char(10), uid: integer)

UserDeactivate(<u>uid</u>: <u>integer</u>, email: char(20), password: char(50), **id**: **integer**)

PhotoPost(<u>purl</u>: <u>integer</u>, caption: char(50), **id: integer**)

Free(id: integer, free\_count: integer)

PremiumSet(<u>id: integer</u>, pid: integer, voice\_message: char(50), cost: integer, premium\_count: integer)

Preference(<u>pid: integer</u>, gender: char(6), distance: integer, location: char(20), race: char(20), age: integer, horoscope: char(10))

OtherSocialLink(<u>surl</u>: char(<u>50</u>), **id**: **integer**)

### **Functional Dependencies:**

### **Description**:

did -> text, prompt

### **ProfileWrite:**

id -> name, height, gender, dob, age, horoscope, did

dob -> age

dob -> horoscope

### Match:

mid -> mid

### ChatStart:

first msg, mid -> last msg

### Receive:

mid, id -> date

# ProfileCreate: id -> name, height, gender, dob, age, horoscope, uid dob -> age dob -> horoscope UserDeactivate: uid -> email, password, id email -> password PhotoPost:

## Free:

id -> free count

purl -> caption, id

### PremiumSet:

id -> voice\_message, cost, premium\_count, pid

### Preference:

pid -> gender, location, race, distance, age, horoscope

### OtherSocialLink:

surl -> id

### **Normalization:**

Description(did: integer, text: char(150), prompt: char(50))

ProfileWrite<sub>1</sub>(<u>dob : date</u>, age: integer)

ProfileWrite<sub>2</sub>(dob : date, horoscope: char(10))

ProfileWrite<sub>3</sub>(<u>id : integer</u>, name: char(20), height: integer, gender: char(6), dob: date, **did: integer**)

Match(mid: integer)

ChatStart(<u>first msg: char(80)</u>, <u>mid: integer</u>, last msg: char(80))

Receive(mid: integer, id: integer, date: date)

ProfileCreate<sub>1</sub>(<u>dob: date</u>, age: integer)

ProfileCreate<sub>2</sub>(<u>dob: date</u>, horoscope: char(10))

ProfileCreate<sub>3</sub>(<u>id: integer</u>, name: char(20), height: integer, gender: char(6), dob: date, **uid:** 

integer)

UserDeactivate<sub>1</sub>(email: char(20), password: char(50))

UserDeactivate<sub>2</sub>(<u>uid: integer</u>, email: char(20), **id: integer**)

PhotoPost(<u>purl: char(20)</u>, caption: char(50), **id: integer**)

Free(<u>id: integer</u>, free count: integer)

PremiumSet(<u>id: integer</u>, pid: integer, voice\_message: char(50), cost: integer, premium\_count: integer)

Preference(<u>pid: integer</u>, gender: char(6), distance: integer, location: char(20), race: char(20), age: integer, horoscope: char(10))

OtherSocialLink(<u>surl: char(50)</u>, **id: integer**)

### **SOL:**

```
CREATE TABLE Description (
);
INSERT INTO Description(did, text, prompt)
VALUES (1, "flowers", "What is your favourite item?"),
      (4, "play hockey", "What do you like to do in your pastime?"),
      (5, "you vibe with me", "I like you if...");
CREATE TABLE ProfileWrite 1 (
);
INSERT INTO ProfileWrite_1(dob, age)
VALUES (2002-10-25, 19),
CREATE TABLE ProfileWrite_2 (
  horoscope CHAR(10)
```

```
INSERT INTO ProfileWrite_2(dob, horoscope)
VALUES (2002-10-25, "Scorpio"),
CREATE TABLE ProfileWrite 3 (
);
INSERT INTO ProfileWrite_3(id, name, height, gender, dob, did)
VALUES (1, "Sam Zhao", 182, "male", 2002-10-25, 1),
CREATE TABLE Match (
```

```
INSERT INTO Match(mid)
VALUES (1),(2),(3),(4),(5);
CREATE TABLE ChatStart (
INSERT INTO ChatStart(first msg, mid, last msg)
VALUES ("heyyyy", 1, 'k bye'),
      ("hi", 2, 'bye lol'),
      ("lemme lick you", 4, 'aight pce'),
      ("damn you fine as hell", 5, 'goodbye.');
CREATE TABLE Receive (
```

```
INSERT INTO Receive(mid, id, date)
VALUES (1, 1, 2022-07-20),
CREATE TABLE ProfileCreate 1 (
);
INSERT INTO ProfileCreate 1(dob, age)
VALUES (2002-10-25, 19),
CREATE TABLE ProfileCreate_2 (
);
INSERT INTO ProfileCreate_2(dob, horoscope)
VALUES (2002-10-25, "Scorpio"),
```

```
(2001-01-01, "Capricorn"),
CREATE TABLE ProfileCreate_3 (
);
INSERT INTO ProfileCreate_3(id, name, height, gender, dob, uid)
VALUES (1, "Sam Zhao", 182, "male", 2002-10-25, 1),
CREATE TABLE UserDeactivate_1 (
);
INSERT INTO UserDeactivate_1(email, password)
VALUES ("samzhao273@gmail.com", "peepeepoopoo123"),
```

```
("samchao273@hotmail.com", "ilovelife123"),
      ("justinzhao273@outlook.com", "ilovemychildren123123"),
      ("calzone@gmail.com", "kekekeke321"),
      ("johnsmith@gmail.com", "sheesh00000001");
CREATE TABLE UserDeactivate 2 (
INSERT INTO UserDeactivate 2(uid, email, id)
VALUES (1,"samzhao273@gmail.com", 1),
      (4, "calzone@gmail.com", 4),
      (5,"johnsmith@gmail.com", 5);
CREATE TABLE PhotoPost (
  caption CHAR(50),
```

```
INSERT INTO PhotoPost(purl, caption, id)
VALUES ('www.imgur.com/1', 'me and my dogs', 1),
      ('www.imgur.com/2', 'me and my cats', 2),
      ('www.imgur.com/3', 'sailing', 3),
      ('www.imgur.com/5', 'i love cooking', 5);
CREATE TABLE Free (
INSERT INTO Free(id, free count)
VALUES (1, 20), (2, 21), (3, 22), (4, 23), (5, 24);
CREATE TABLE PremiumSet (
INSERT INTO PremiumSet(id, pid, voice_message, cost, premium_count)
```

```
VALUES (1, 1, 'Hello everyone!', 5, 49),
      (2, 2, 'Where is everyone?', 5, 50)
      (5, 5, 'I love dogs', 5, 53);
CREATE TABLE Preference (
INSERT INTO Preference(pid, gender, distance, location, race, age, horoscope)
VALUES (1, 'male', 50, 'Richmond', 'Asian', 19, 'Scorpio'),
      (4, 'female', 60, 'Coquitlam', 'Hispanic', 80, 'Capricorn'),
CREATE TABLE OtherSocialLink (
```