

COMP 353
Main Project Report

xvc 353_4

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E/R diagram:

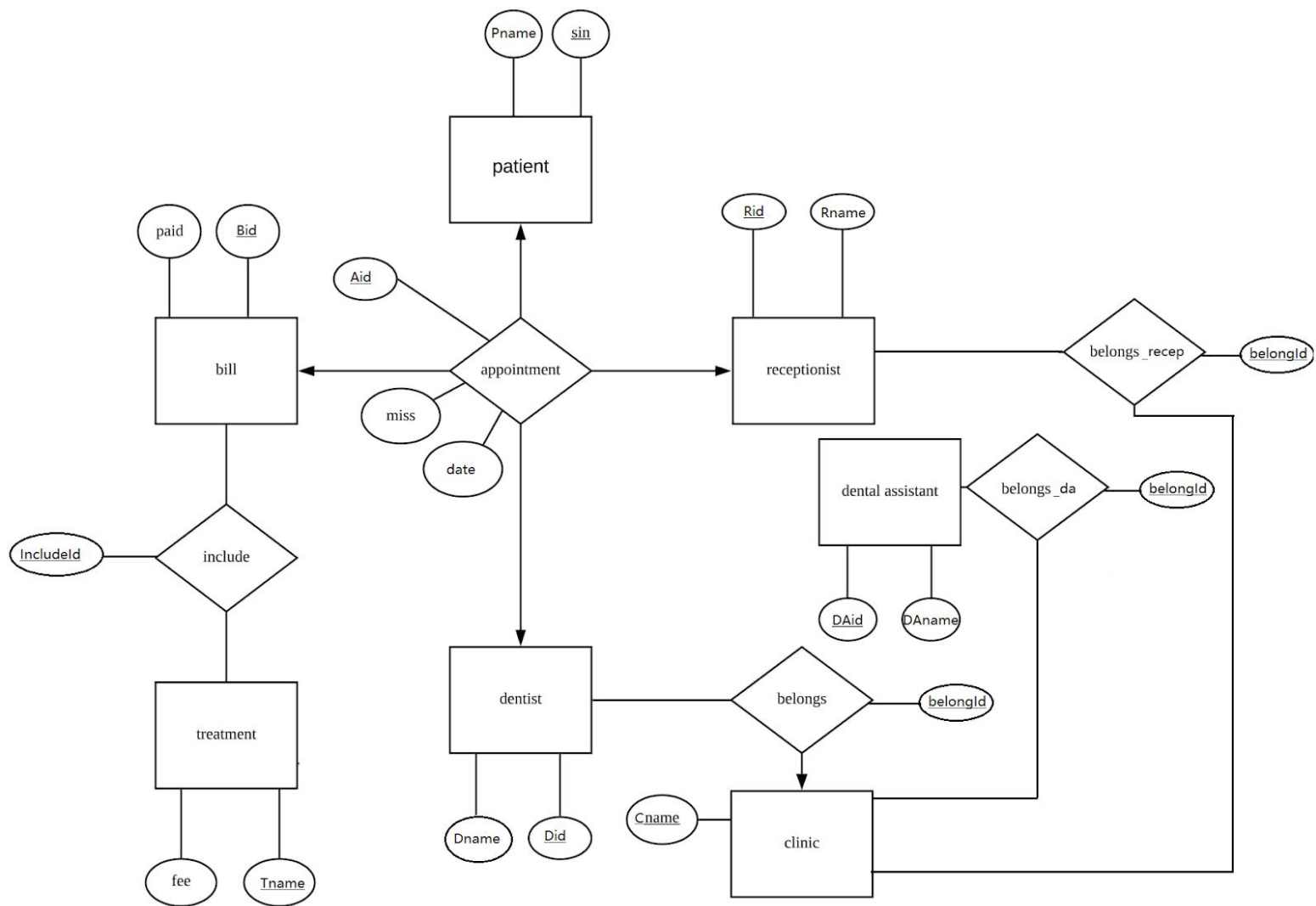


Figure 1: ER diagram of the system

Database Schemas:

clinic(Cname)

belongs(belongsId, Cname*, Did*)

belongs_da(belongsId, Cname*, DAid*)

belongs_recep(belongsId, Cname*, Rid*)

dentist(Did, Dname)

dental_assistant(DAid, DAname)

receptionist(Rid, Rname)

patient (Pname, Sin)

bill (Bid, paid)

appointment(Aid, Sin*, Did*, Rid*, Bid*, miss, data)

treatment(Tname, fee)

include(included, Bid*, Tname*)

Functional Dependencies:

patient:

$Sin \rightarrow Pname$

appointment:

$Aid \rightarrow Bid, SIN, Rid, Did$

bill:

$Bid \rightarrow paid$

include:

$includeId \rightarrow name, Bid$

treatment:

$name \rightarrow fee$

receptionist:

$Rid \rightarrow Rname$

dentist:

$Did \rightarrow Dname$

belongs:

$belongsId \rightarrow Cname, Did$

belongs_da:

$belongsId \rightarrow Cname, DAid$

belongs_recep:

belongsId→Cname,Rid

dental assistant:

DAid→DAname

SQL declarations of the relations, the implementation code, relation instances**Table structure**

The following section represents the formation of the table through code, the added key and constraint is showing right under the table creation. The description of the table is also included for clarification. The auto_increment section is added right after all tables.

table appointment

The appointment table includes its own primary key called Aid and several needed foreign key such as Sin from patient, Did (dentist ID) from dentist, Rid from receptionist, Bid from bill. The data miss represent if the patient attended for this appointment or not in the form of “boolean”, 0 for false, and 1 for true.

```
CREATE TABLE `appointment` (  
  `Aid` int(4) NOT NULL,  
  `Sin` int(4) NOT NULL,  
  `Did` int(4) NOT NULL,  
  `Rid` int(4) NOT NULL,  
  `Bid` int(4) NOT NULL,  
  `miss` tinyint(1) NOT NULL,  
  `date` date NOT NULL  
);
```

```
ALTER TABLE `appointment`  
  ADD PRIMARY KEY (`Aid`),  
  ADD KEY `Did` (`Did`),  
  ADD KEY `Rid` (`Rid`),  
  ADD KEY `Sin` (`Sin`),  
  ADD KEY `Bid` (`Bid`);
```

```

ALTER TABLE `appointment`
  ADD CONSTRAINT `appointment_ibfk_1` FOREIGN KEY (`Bid`) REFERENCES
`bill` (`Bid`),
  ADD CONSTRAINT `appointment_ibfk_2` FOREIGN KEY (`Did`) REFERENCES
`dentist` (`Did`),
  ADD CONSTRAINT `appointment_ibfk_3` FOREIGN KEY (`Rid`) REFERENCES
`receptionist` (`Rid`),
  ADD CONSTRAINT `appointment_ibfk_4` FOREIGN KEY (`Sin`) REFERENCES
`patient` (`Sin`);

```

table belongs

Table belongs represents the relation between dentist and clinic, in which dentist belongs to the clinic. It has the primary key BelongId. Cname is the clinic name from table clinic. Did is the dentist ID from table dentists.

```

CREATE TABLE `belongs` (
  `BelongId` int(11) NOT NULL,
  `Cname` varchar(50) NOT NULL,
  `Did` int(11) NOT NULL
);

```

```

ALTER TABLE `belongs`
  ADD PRIMARY KEY (`BelongId`),
  ADD KEY `Cname` (`Cname`),
  ADD KEY `Did` (`Did`);

```

```

ALTER TABLE `belongs`
  ADD CONSTRAINT `belongs_ibfk_1` FOREIGN KEY (`Cname`) REFERENCES
`clinic` (`Cname`),
  ADD CONSTRAINT `belongs_ibfk_2` FOREIGN KEY (`Did`) REFERENCES `dentist`
(`Did`);

```

table belongs_da

Table belongs_da represents the relation between dentist assistant and clinic, in which dentist assistant belongs to the clinic. It has the primary key BelongId. Cname is the clinic name from table clinic. DAid is the dentist assistant ID from table dental_assistant.

```

CREATE TABLE `belongs_da` (

```

```

    `BelongId` int(11) NOT NULL,
    `Cname` varchar(50) NOT NULL,
    `DAid` int(11) NOT NULL
);

ALTER TABLE `belongs_da`
  ADD PRIMARY KEY (`BelongId`),
  ADD KEY `Cname` (`Cname`),
  ADD KEY `DAid` (`DAid`);

ALTER TABLE `belongs_da`
  ADD CONSTRAINT `belongs_da_ibfk_1` FOREIGN KEY (`Cname`) REFERENCES
`clinic` (`Cname`),
  ADD CONSTRAINT `belongs_da_ibfk_2` FOREIGN KEY (`DAid`) REFERENCES
`dental_assistant` (`DAid`);

```

table belongs_recep

Table belongs_da represents the relation between receptionist and clinic, in which receptionist belongs to the clinic. It has the primary key BelongId. Cname is the clinic name from table clinic. Rid is the receptionist ID from the table receptionist.

```

CREATE TABLE `belongs_recep` (
  `BelongId` int(11) NOT NULL,
  `Cname` varchar(50) NOT NULL,
  `Rid` int(11) NOT NULL
);

ALTER TABLE `belongs_recep`
  ADD PRIMARY KEY (`BelongId`),
  ADD KEY `Cname` (`Cname`),
  ADD KEY `Rid` (`Rid`);

ALTER TABLE `belongs_recep`
  ADD CONSTRAINT `belongs_recep_ibfk_1` FOREIGN KEY (`Cname`) REFERENCES
`clinic` (`Cname`),
  ADD CONSTRAINT `belongs_recep_ibfk_2` FOREIGN KEY (`Rid`) REFERENCES
`receptionist` (`Rid`);

```

table bill

Table bill represents the bill created after each appointment. Bid is the primary key for table bill and Paid represents "boolean" in which represents whether the bill is paid or not. The sum of bill will be calculated in query because a lot a treatment can be include to a single bill (more detail in the treatment table)

```
CREATE TABLE `bill` (  
  `Bid` int(4) NOT NULL,  
  `Paid` int(8) NOT NULL  
);  
ALTER TABLE `bill`  
  ADD PRIMARY KEY (`Bid`);
```

table clinic

Table clinic is a simple table which the name of the clinic is represented using Cname. This table is mostly used for relation belongs, belongs_da and belongs_recep to see which person is a part of a given clinic.

```
CREATE TABLE `clinic` (  
  `Cname` varchar(50) NOT NULL  
);  
ALTER TABLE `clinic`  
  ADD PRIMARY KEY (`Cname`);
```

table dental_assistant

Table dental_assistant represents the dental assistant, it has its own ID and a name.

```
CREATE TABLE `dental_assistant` (  
  `DAid` int(4) NOT NULL,  
  `DAname` varchar(50) NOT NULL  
);  
ALTER TABLE `dental_assistant`  
  ADD PRIMARY KEY (`DAid`);
```

table dentist

Table dentist represents the dentists, it has its own ID and a name.

```
CREATE TABLE `dentist` (  
  `Did` int(4) NOT NULL,  
  `Dname` varchar(50) NOT NULL  
);
```

```
ALTER TABLE `dentist`  
  ADD PRIMARY KEY (`Did`);
```

table include

Table include represents the relation in which the treatment is included into a single bill. As we all know, a bill can include more than one treatment, therefore a many to one relation is needed in this case. The sum of the bill can be easily calculated by doing the sum of all treatment fees. The include consists of a Tname for treatment name and a Bid for bill ID.

```
CREATE TABLE `include` (  
  `Tname` varchar(4) NOT NULL,  
  `Bid` int(4) NOT NULL  
);
```

```
ALTER TABLE `include`  
  ADD PRIMARY KEY (`IncludeId`),  
  ADD KEY `Tname` (`Tname`),  
  ADD KEY `Bid` (`Bid`);
```

```
ALTER TABLE `include`  
  ADD CONSTRAINT `include_ibfk_1` FOREIGN KEY (`Bid`) REFERENCES `bill`  
  (`Bid`),  
  ADD CONSTRAINT `include_ibfk_2` FOREIGN KEY (`Tname`) REFERENCES  
  `treatment` (`Tname`);  
COMMIT;
```

table patient

Table patient is the instance of patient in which consists of Pname (patient name) and Sin (social insurance number) as primary key.

```
CREATE TABLE `patient` (  
  `Pname` varchar(50) NOT NULL,  
  `Sin` int(9) NOT NULL  
);
```

```
ALTER TABLE `patient`  
  ADD PRIMARY KEY (`Sin`);
```

table receptionist

Table receptionist represents an instance of a receptionist who works at a clinic. It contains an ID, Rid as primary key and a name as Rname.

```
CREATE TABLE `receptionist` (  
  `Rid` int(4) NOT NULL,  
  `Rname` varchar(50) NOT NULL  
);
```

```
ALTER TABLE `receptionist`  
  ADD PRIMARY KEY (`Rid`);
```

table treatment

Table treatment describes the name of the treatment and necessary fee. It includes TName as varchar and fee as int type.

```
CREATE TABLE `treatment` (  
  `TName` varchar(50) NOT NULL,  
  `fee` int(4) NOT NULL  
);
```

```
ALTER TABLE `treatment`  
  ADD PRIMARY KEY (`Tname`);
```

-- Indexes for dumped tables

Include in table formation

AUTO_INCREMENT

The following part contains the continuation of the table creation query. We decide to move this part after the main table creation query because it is repetitive because it will only apply for every primary key of each table.

```
ALTER TABLE `appointment`  
  MODIFY `Aid` int(4) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=50;
```

```
ALTER TABLE `belongs`  
  MODIFY `BelongId` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=15;
```

```
ALTER TABLE `belongs_da`  
  MODIFY `BelongId` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
```

```
ALTER TABLE `belongs_recep`  
  MODIFY `BelongId` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
```

```
ALTER TABLE `bill`  
  MODIFY `Bid` int(4) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
```

```
ALTER TABLE `dental_assistant`  
  MODIFY `DAid` int(4) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
```

```
ALTER TABLE `dentist`  
  MODIFY `Did` int(4) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=8;
```

```
ALTER TABLE `include`  
  MODIFY `IncludeId` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=11;
```

```
ALTER TABLE `receptionist`  
  MODIFY `Rid` int(4) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
```

SQL scripts for the queries and transactions(Results show in Web Interface):

The GUI is made of vanilla HTML for the frontend, and a php REST API for the backend. The following query represents the query we use to fulfill each requirement from a to g as well the extra required features.

All the query is running inside api/models/post.php

Please notice, the screenshot might be hard to read, please visit “our” website to see the result more clearly and play around the wonderful GUI we made.

The query will be represent in the plain text and how it looks like in the code (php)

a) Get details of all dentists in all the clinics.

```
select *  
from dentist, belongs  
where belongs.Did = dentist.Did;  
SELECT * FROM dentist, belongs WHERE belongs.Did = dentist.Did
```

read_1

a. Get details of all dentists in all the clinics.



Did	Dname	Cname
1	Tom	clinic_1
2	Jack	clinic_2
3	Mary	clinic_3
4	Sally	clinic_4
7	Pony	clinic_5
2	Jack	clinic_1

[Figure 2. all dentist displayed upon clicking on the button]

b) Get details of all appointments for a given dentist for a specific week.

```
select *  
from appointment  
where Did = "given dentist id"
```

```
AND data >= "startDate"
```

```
AND data <= "endDate" ;
```

```
SELECT *
```

```
FROM appointment
```

```
WHERE Did = ' . $Did . '
```

```
AND date >= \' . $d1 . \' . \' . \'
```

```
AND date <= \' . $d2 . \' . \'
```

read_2

b. Get details of all appointments for a given dentist for a specific week.

Doctor ID	1
From date	2020-01-01
To date	2020-09-05
<input type="button" value=" >"/>	

Aid	Sin	Did	Rid	Bid	miss	date
10	123456789	1	1	1	0	2020-01-01
15	123456789	1	1	1	1	2020-02-02
16	123456789	1	1	1	4	2020-03-02
17	123456789	1	1	1	2	2020-04-02
18	123456789	1	1	1	0	2020-05-02

[Figure 3. Display of tuples given Doctor ID = '1' and date from '2020-01-01' to '2020-09-05']

c) Get details of all appointments at a given clinic on a specific date.

```
select *
```

```
from appointment, belongs
```

```
where appointment.Did = belongs.Did AND
```

```
appointment.data = "given date" AND
```

```
belongs.Cname = "given clinic name";
```

```
SELECT * from appointment, belongs
```

```
where appointment.Did = belongs.Did
```

```
AND appointment.date = \' . $date . \'
```

```
AND belongs.Cname = \' . $clinic . \'
```

read_3

c. Get details of all appointments at a given clinic on a specific date.

Clinic name	clinic_1
Date	2020-01-01

>

Aid	Sin	Did	Rid	Bid	miss	date	BelongId	Cname
10	123456789	1	1	1	0	2020-01-01	9	clinic_1
11	987654321	2	2	2	0	2020-01-01	14	clinic_1
12	333333333	3	3	3	1	2020-01-01	15	clinic_1
13	444444444	4	4	4	1	2020-01-01	16	clinic_1
14	555555555	7	5	5	1	2020-01-01	17	clinic_1

[Figure 4. Details of all appointments given a clinic name = 'clinic_1' and Date ='2020-01-01']

d) Get details of all appointments of a given patient.

```
select *  
from appointment  
where Sin = "given sin";  
SELECT *  
from appointment  
where Sin = \' . $sin . \'
```

read_4

d. Get details of all appointments of a given patient.

Patient SIN	123456789
-------------	-----------

>

Aid	Sin	Did	Rid	Bid	miss	date
10	123456789	1	1	1	0	2020-01-01
15	123456789	1	1	1	1	2020-02-02
16	123456789	1	1	1	4	2020-03-02
17	123456789	1	1	1	2	2020-04-02
18	123456789	1	1	1	0	2020-05-02

[Figure 5. all appointments of a patient given Pname = '12345678']

e) Get the number of missed appointments for each patient (only for patients who have missed at least 1 appointment).

```
select Sin, count(*) as count
from appointment
where miss = 1
group by Sin
having count(*) > 0;
```

```
SELECT Sin, count(*) as count
      FROM appointment
     where miss = 1
    group by Sin
   having count(*) > 0
```

read_5

e. Get the number of missed appointments for each patient (only for patients who have missed at least 1 appointment).



Sin	count
123456789	1
333333333	1
444444444	1
555555555	1
987654321	1

[Figure 6. the number of missed appointments for each patient]

f) Get details of all the treatments made during a given appointment.

```
select appointment.Bid, treatment.Tname, treatment.fee
from appointment, include, treatment
where Aid = "given appointment id"
AND appointment.Bid = include.Bid
AND include.Tname = treatment.Tname;
```

```
SELECT appointment.Bid, treatment.Tname, treatment.fee
      from appointment, include, treatment
     where Aid = \' . $Aid . \' AND
           appointment.Bid = include.Bid AND
           include.Tname = treatment.Tname
```

The result table show all treatments include inside the requested appointment

Bid	Tname	fee
1	braces	7000
1	examination	30
1	extractions	80
1	fillings_and_repairs	30
1	root_canals	120
1	teeth_cleaning	65
1	teeth_whitening	75
1	fillings_and_repairs	30

[Figure 7 all treatments from clinic]

g) Get details of all unpaid bills.

```
select bill.Bid, Sum(treatment.fee) as sum, Pname
from bill, include, treatment, appointment, patient
where paid = 0 and bill.Bid = include.Bid and treatment.Tname =
include.Tname
and bill.Bid = appointment.Bid and appointment.SIN = patient.SIN
group by Bid;
```

```
SELECT bill.Bid, Sum(treatment.fee) as sum, Pname
      from bill, include, treatment, appointment, patient
      where paid = 0 AND bill.Bid = include.Bid AND treatment.Tname =
include.Tname AND bill.Bid = appointment.Bid AND appointment.SIN = patient.SIN
      group by Bid
```

Bid	sum	Pname
1	59440	patient_1
2	30	patient_2
3	80	patient_3
4	7000	patient_4
5	75	patient_5

[Figure 8. all unpaid bills]

Other required features

The following screenshots show some additional functions other than queries of our web application with step of procedure.

Add a Patient

A patient can be registered by inputting his name and SIN. Here is how the section looks like.

Add a patient

See all patient

Pname New patient

SIN 123541241

Add patient

[Figure 9. UI for adding a patient]

After clicking on the button “Add patient” the patient will be added to the database, we can verify that by clicking the “See all patient” button. Once we add the patient, if action executes with success, we can see a message.

Add patient

message

Category Updated

[Figure 10. message displayed when modification is successful]

We can verify if the patient is successively added to db by clicking the “See all patient” button.

Pname	Sin
patient_1	123456789
New patient	123541241
patient_3	333333333
patient_4	444444444
patient_5	555555555
patient_6	666666666
patient_2	987654321

[Figure 10.All existing patient with the new patient added]

Query for adding a patient.

```
INSERT INTO patient
    VALUE ('\'' . $Pname . '\',\'' . $Sin . '\')
```

Schedule a Appointment

Here is an overview of the section

Schedule a appointment

1. See all clinic

2. Select clinic clinic_1

3. See all doctor in this clinic

5. Choose your dentist (Did)

6. Your SIN number 123456789

7. Pick a date 年/月/日

Make my appointment

[Figure 11. UI for schedule an appointment]

The user should first click on “1. See all clinic” button to get a list of all clinics.

1. See all clinic

Cname
clinic_1
clinic_2
clinic_3
clinic_4
clinic_5

[Figure 12. all clinics displayed]

Then underneed the clinic list, the user can input the clinic he/she wants to go by input the name of the clinic (in this case, clinic_1). Finally the user can schedule an appointment based on the dentist ID, his SIN and the date he wants. If the user does not know which dentist to pick or the date he wants. System will automatically select the first dentist from the clinic he wants to go to today's date.

Query to see the list of dentists by given clinic name.

```
SELECT dentist.Did, dentist.Dname, Cname from dentist, belongs
WHERE belongs.Cname = \'\' . $Cname . \'\'
AND belongs.Did = dentist.Did
```

Query for selecting the first dentist from the clinic (if the user does not choose a dentist).

```
SELECT dentist.Did from dentist, belongs
WHERE belongs.Cname = \' . $Cname . \'
AND belongs.Did = dentist.Did
LIMIT 1
```

Query for add the appointment.

```
INSERT INTO appointment(Did, Sin, date, miss, Rid, Bid)
VALUE (\' . $Did . \', \' . $Sin . \', \' . $date . \',
1,1,1 )
```

2. Select clinic

clinic_1

3. See all doctor in this clinic

Did	Dname
1	Tom
2	Jack

5. Choose your dentist (Did)

6. Your SIN number

123456789

7. Pick a date

年 / 月 / 日

Make my appointment

[Figure 13. doctors displayed in clinic 1 upon on clicking the 'See all doctor in this clinic']

Here is an appointment we just made from clinic_1. Did is 1 from the clinic_1. Date is picked today. Miss is 1 because the user has not yet attended the appointment. We assign a receptionist and a bill ID for him.

Aid	Sin	Did	Rid	Bid	miss	date
51	123456789	1	1	1	1	2020-04-13

[Figure 14. new appointment made and displayed]

Modify an Appointment

Here is an overview of the section. First, we can see a list of appointments by clicking on button “1. See all appointment”. Then select the ID of appointment we want to modify. Automatically, by clicking on “3. Modify this appointment”, all information of the appointment will be auto filled into the following input section. Finally, the user can make the change he wants (but not for Aid, that is why it is disabled)

Modify an appointment

1. See all appointment

2. Aid that you want to modify

3. Modify this appointment

4. Make your change

Aid

Sin

Did

Rid

Bid

miss

date

5. Make the change

[Figure 15. UI for modifying an appointment]

If we pick appointment Aid = 10 to be modified.

1. See all appointment

Aid	Sin	Did	Rid	Bid	miss	date
10	123456789	1	1	1	1	2020-01-01

[Figure 16. an appointment displaying matching Aid = '10']

After input 10 and click to select this to modify, system autofill everything from this appointment.

2. Aid that you want to modify 10

3. Modify this appointment

4. Make your change

Aid	10
Sin	123456789
Did	1
Rid	1
Bid	1
miss	1
date	2020-01-01

[Figure 17. autofill the input with original tuple which is Aid = '10']

For demonstration, we change the data miss of this tuple from 0 to 1.

Bid	1
miss	0
date	2020-01-01

5. Make the change

message

Category Updated

[Figure 18.change attribute value 'miss' from '0' to '1']

We can see all appointments again and see the change is made.

1. See all appointment						
Aid	Sin	Did	Rid	Bid	miss	date
10	123456789	1	1	1	0	2020-01-0
11	987654321	2	2	2	0	2020-01-0

[Figure 19. changed result displayed]

Query for read everything from a single appointment (result will be handle by JS at frontend)

```
SELECT * from appointment WHERE Aid = \'\' . $Aid . \'\'
```

Query to modify the appointment tuple, given every data of the appointment.

```
UPDATE appointment
    SET Sin = \'\' . $Sin . \'\' ,
        Did = \'\' . $Did . \'\' ,
        Rid = \'\' . $Rid . \'\' ,
        Bid = \'\' . $Bid . \'\' ,
        miss = \'\' . $miss . \'\' ,
        date = \'\' . $date . \'\'
    WHERE Aid = \'\' . $Aid . \'\'
```

Delete an Appointment:

Here is the section where you can delete an appointment.

Delete an appointment

1. See all appointment

2. Enter Aid that you want to delete

3. Delete this appointment

[Figure 20. UI for deleting an appointment]

Users can see the list of appointments and enter the appointment ID (Aid) that the user wants to be deleted. For example, if I want to delete an appointment with Aid = 10, I need the input 10 inside the input box then click on button "3. Delete this appointment".

Delete an appointment

1. See all appointment

Aid	Sin	Did	Rid	Bid	miss	date
10	123456789	1	1	1	0	2020-01-01
11	987654321	2	2	2	0	2020-01-02
12	333333333	3	3	3	1	2020-01-03

[Figure 21. display appointments upon clicking 'see all appointment']

With a confirmed message. The appointment with Aid = 10 is deleted from the table.

2. Enter Aid that you want to delete 10

3. Delete this appointment

message

Category Updated

[Figure 22. message indicating successful delete]

Here is the list of all appointments after clicking again. Appointment with Aid = 10 is no longer there.

1. See all appointment

Aid	Sin	Did	Rid	Bid	miss	date
11	987654321	2	2	2	0	2020-01-02
12	333333333	3	3	3	1	2020-01-03

[Figure 23. update in the table(delete successful)]

Query for deleting the appointment, given Aid

```
DELETE
FROM appointment
WHERE Aid = \''. $Aid . '\'
```

User self-defined query

This is the section where the user can submit its own query to modify the database. From the image below, users submit a query to delete the appointment with Aid = 12.

User query

query

DELETE FROM appointment WHERE Aid = '12'

>

[Figure 24. UI for user defined query and an user input]

A message that confirms the execution of the query is complete with success.

3. Delete this appointment

message

Category Updated

[Figure 25. message indicating successful delete with user-defined query]

The appointment with Aid = 12 is no longer in the database.

Delete an appointment

1. See all appointment

Aid	Sin
11	987654321
13	444444444
14	555555555

[Figure 26. display of the table after executing user-defined query upon on clicking 'See all appointment']

Segment of code

```
public function user_query($query){  
    $stmt = $this->conn->prepare($query);  
    if($stmt->execute()) {  
        return true;  
    }  
    //printf("Error: $s.\n", $stmt->error);  
    return false;  
}
```

Other information

The website is made of vanilla html supported with CSS framework Bootstrap connecting with a php REST API to the interaction between the frontend and database.

In the developer environment, we are using XAMPP for local databases and the server for handling php REST API.

After we make sure everything is completed, we transfer everything onto the school server.

<https://xvc353.encs.concordia.ca>

Username: xvc353_4

Password: Comp3534

To execute the website locally, clone down everything from https://github.com/Ming424/comp353_main_project to XAMPP virtual server folder **htdocs**.

Open Apache and MySQL module on XAMPP.

Inside phpmyadmin, create a table called comp353 then import comp353.SQL from source code.

Then finally, open test.html (index.html is for school server) to access the website locally.