

< Group No 25 – Hospital Management System >

Scenario:

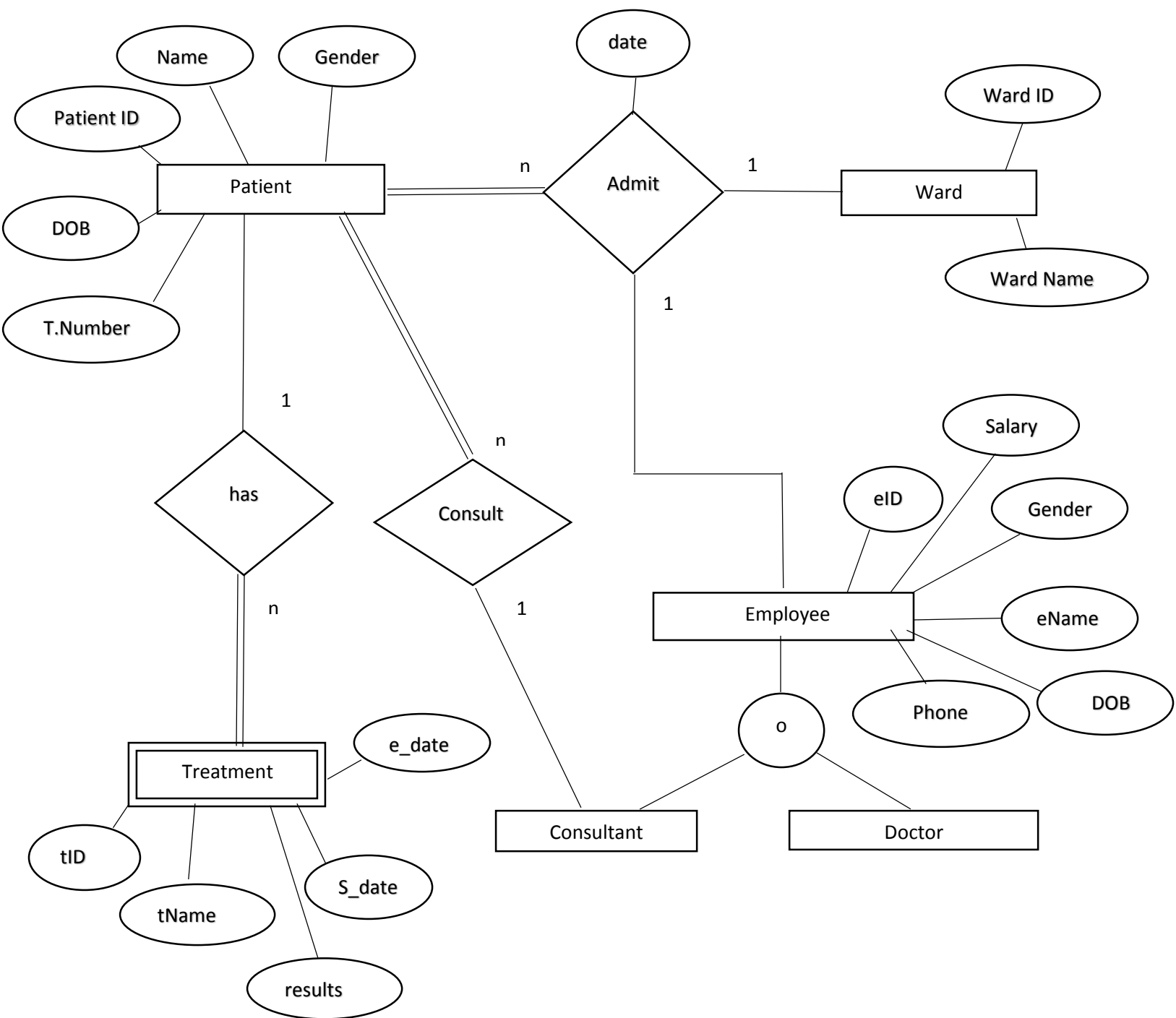
A Hospital consists of a number of specialized wards (such as Maternity, Pediatrics, Oncology, etc.). Each ward has a number of patients, who are admitted on the recommendation of external physicians (may be their family doctors) and confirmed by a consultant employed by the Hospital. On admission, the personal details of every patient are recorded. A separate register is to be held to store information of tests undertaken and results of a prescribed treatment. A number of tests may be conducted for each patient. Each patient is assigned to one leading consultant, but may be examined by another doctor, if required. Doctors are specialists in some branch of medicine and may be leading consultants for a number of patients, not necessarily from the same ward.

According to the scenario,

- ✓ Patient
- ✓ Ward
- ✓ Treatment (Weak)
- ✓ Employee(Doctor/Consultant...etc)

Are the entities.

Following EER diagram is based on the above identified entities



Mapping Process:

| Table Name | Attributes |
|------------|---|
| patient | Patient ID, patient name, phone number, dob, gender, ward ID, eID |
| employee | eID, eName, phone, gender, DOB, salary, password |
| con_doc | eID, isDoc, isCon |
| ward | ward_name, ward_ID |
| treatment | tID, tName, results, s_date, e_date, patient_ID |
| admit | Patient_ID, eID, ward_ID, date |

Assumptions:

- ✓ Main admin is a doctor
- ✓ When admitting a patient, the doctor who confirms the admission of the patient is the default doctor of that patient
- ✓ We assume that consultants and doctors as employees (without considering other employees)

SQL Queries:

❖ When logging to accounts

Admin logging: `SELECT * FROM admin WHERE eID='$username';`

❖ Inserting data:

Insert patient: `INSERT INTO patient VALUES ('$pid','$pname','$num','$dob','$gen','$wid','$eid');`

❖ Selecting data:

Select patient: `SELECT * FROM patient;`

❖ Updating data:

Update patient: `UPDATE patient SET $column='$data' WHERE patient_ID='$pid';`

❖ Deleting data:

Delete patient: `DELETE FROM patient WHERE patient_ID='$pid';`

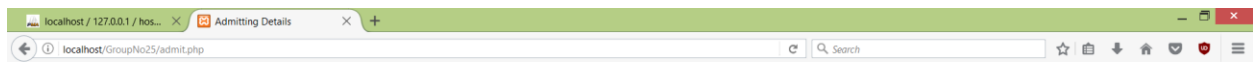
User privileges:

- Each user has different login access:
Ex: if you are a patient you can only login by using “User Login”
- Thought a person isn't a user he or she can check ward details and doctor details

Demonstrations of user privileges:

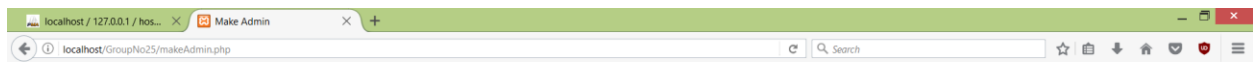
➤ Admin privileges:





Patient Admitting Details

| Patient ID | Doctor ID | Ward ID | Admitted Date |
|------------|-----------|---------|---------------|
| PID0001 | DID0002 | WID02 | 2017-05-31 |



Insert valid Employee ID

Make Admin

Employee ID:



localhost / 127.0.0.1 / hos... x Insert New Doctor/Consul... x +

localhost/GroupNo25/insertDoctor.php

INSERT DOCTOR/CONSULTANT

INSERT DOCTOR/CONSULTANT DETAILS

Employee ID :

Employee Name :

Phone Number :

Gender :

Date of Birth :

is Doctor :

is Consultant :

Salary :

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localhost / 127.0.0.1 / hos... x Update Patient Details x +

localhost/GroupNo25/updatePatient.php

UPDATE PATIENT

UPDATE PATIENT DETAILS

UPDATE DOCTOR/CONSULTANT DETAILS

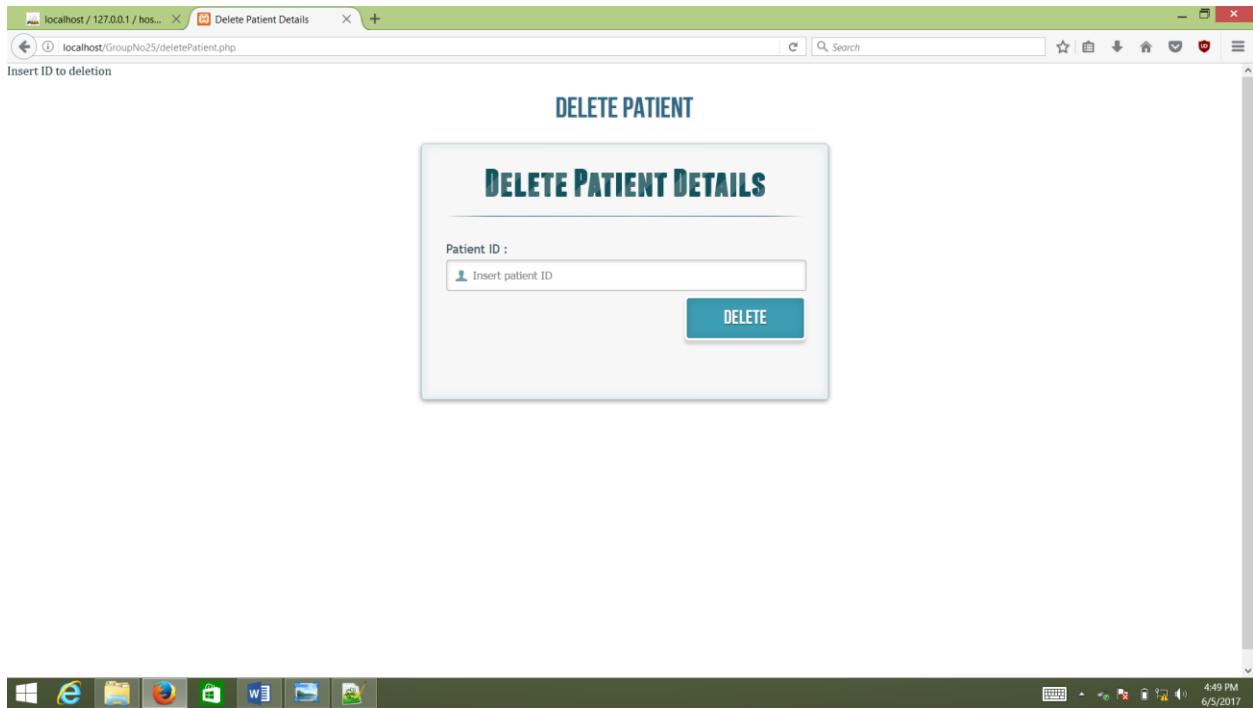
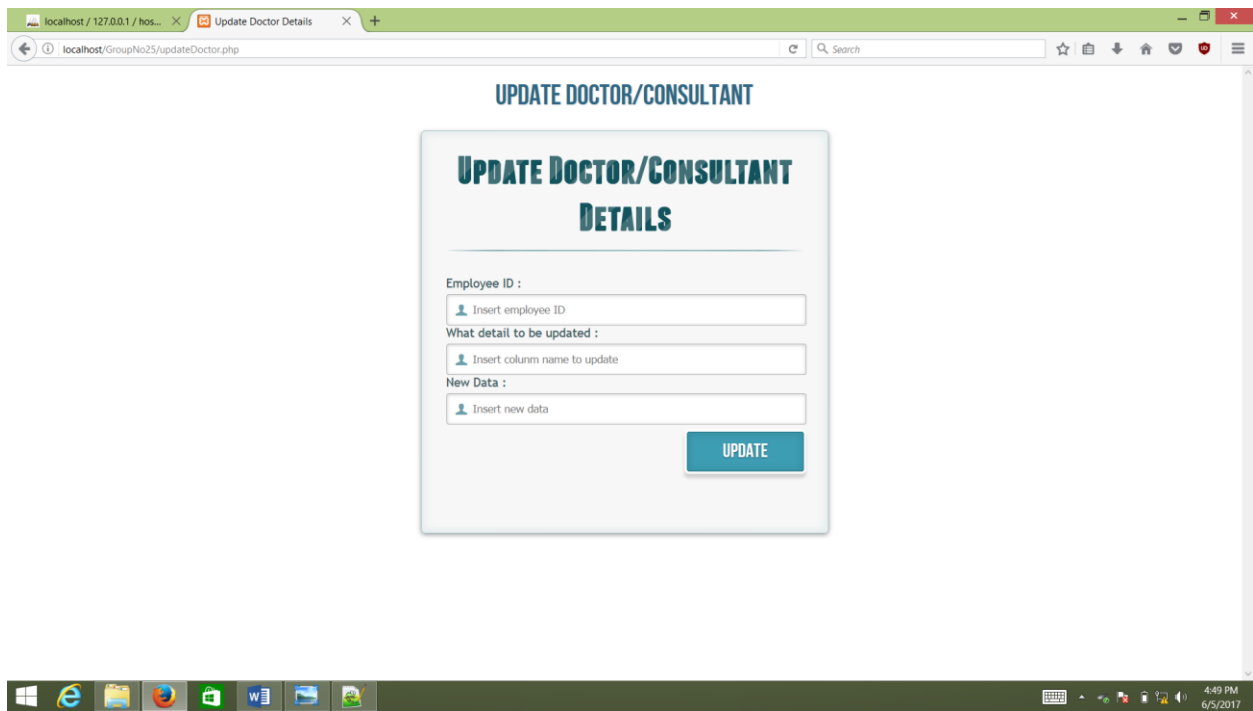
Patient ID :

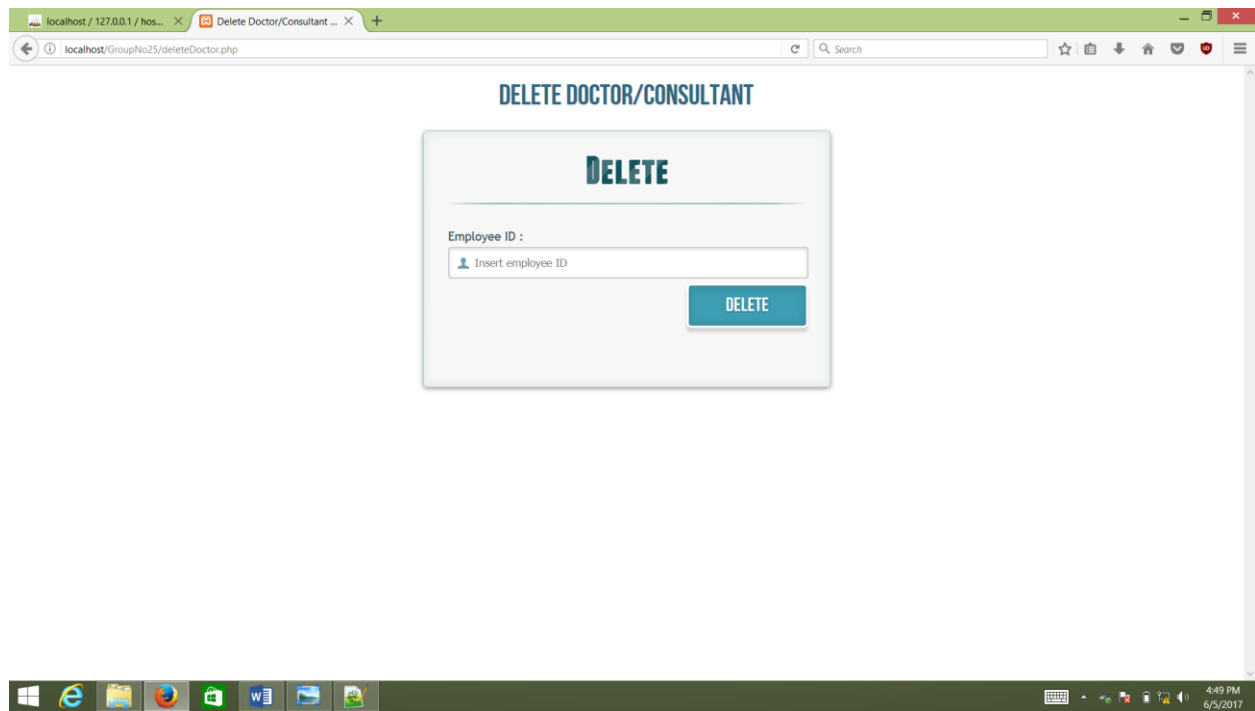
What detail to be updated :

New Data :

UPDATE

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➤ Doctor/Consultant privileges:

localhost / 127.0.0.1 / hos... Employee Logged In Inter...
localhost/GroupNo25/employee.php

Employee Login Interface

| Employee ID | Employee Name | Phone Number | Gender | DOB |
|-------------|--------------------|--------------|--------|------------|
| DID0002 | Sarath Chandrasiri | 0778965425 | M | 1990-04-15 |

Related Patient Details

| Patient ID | Patient Name | Gender | Ward ID | DOB |
|------------|---------------------|--------|---------|------------|
| PID0001 | Krishantha Senarath | M | WID05 | 1985-04-15 |

[Insert Treatemnt to Patients](#) [Update Treatment Details](#) [Insert New Patient](#) [Change Password for Your Account](#)

[Log Out](#)
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localhost / 127.0.0.1 / hos... http://localh...reatment.php
localhost/GroupNo25/insertTreatment.php

TREATMENT DETAILS

ENTER TREATMENT FOR YOUR PATIENT

Patient ID

Treatment ID

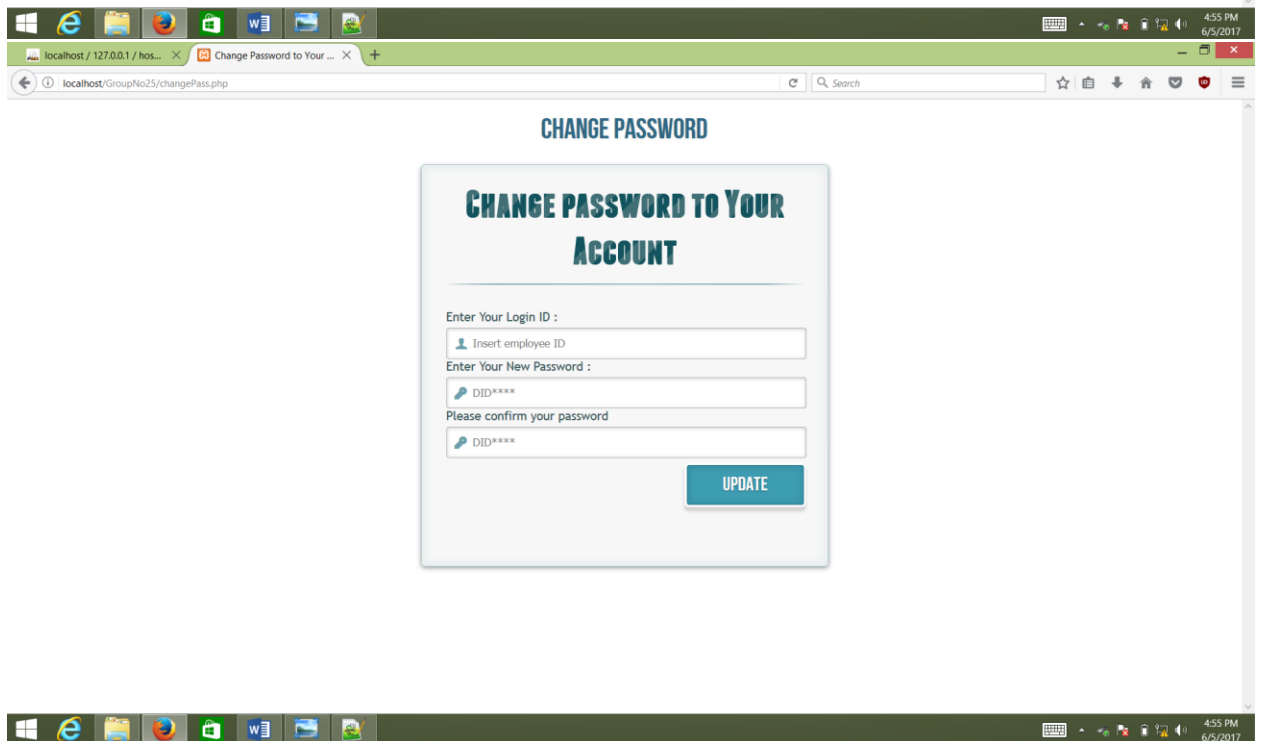
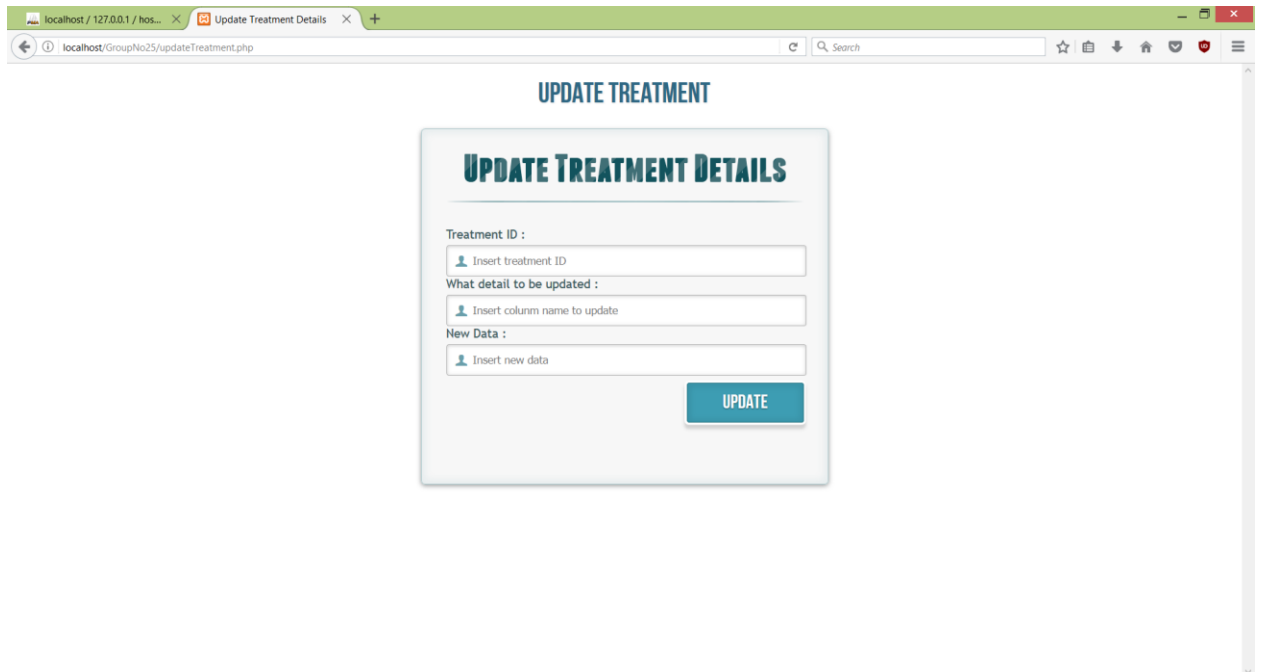
Treatment Name

Results

Start Date

End Date

[SUBMIT](#)



- Patient privileges:

Patient only can check his/her treatment details

References:

- <https://www.w3schools.com/html/default.asp>
- <https://www.w3schools.com/css/default.asp>
- <https://www.w3schools.com/php/default.asp>
- YouTube videos

Used Softwares:

- XAMPP
- Notepad++