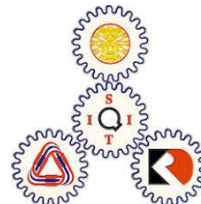


ITS351. Database Programming Laboratory

Semester 1, 2019

Project Development



Overview

Lab	Date	Topic
1	08/23	HTML and CSS
2	08/30	PHP Programming
3	09/06	Form Validation and Processing
4	09/13	Database Design and Administration
5	09/20	Data Manipulation I
6	09/27	Midterm Project Presentation
		Midterm Examination (No Class)
7	10/11	Data Manipulation II
8	10/18	Data Manipulation III
9	10/25	Login and Session Handling
10	11/01	Stored Procedure and Function
11	11/08	Trigger
12	11/15	Project Development
13	11/22	Final Project Presentation
	12/06	Final Examination

Overview

Evaluation

Item	Portion	Description
Attendance and Exercise	30%	3 points/lab with attendance check
Mini Project	15%	
Project	20%	
Final Examination	35%	Fri, Dec 6, 2019; 13:30–16:30

Overview

Final-project (20%): (**** Requirement ****)

- 4 students per group.
- Developed a complete website with full features (data handing,...)
- HTML / CSS / PHP
- Require to use databases
- With all operations - Create(Insert) / Read (Select) / Update / Delete
- Require to use PHP session

No need to do slide or report

Prepare your code make it run. We will grade at your machine.

How to presents

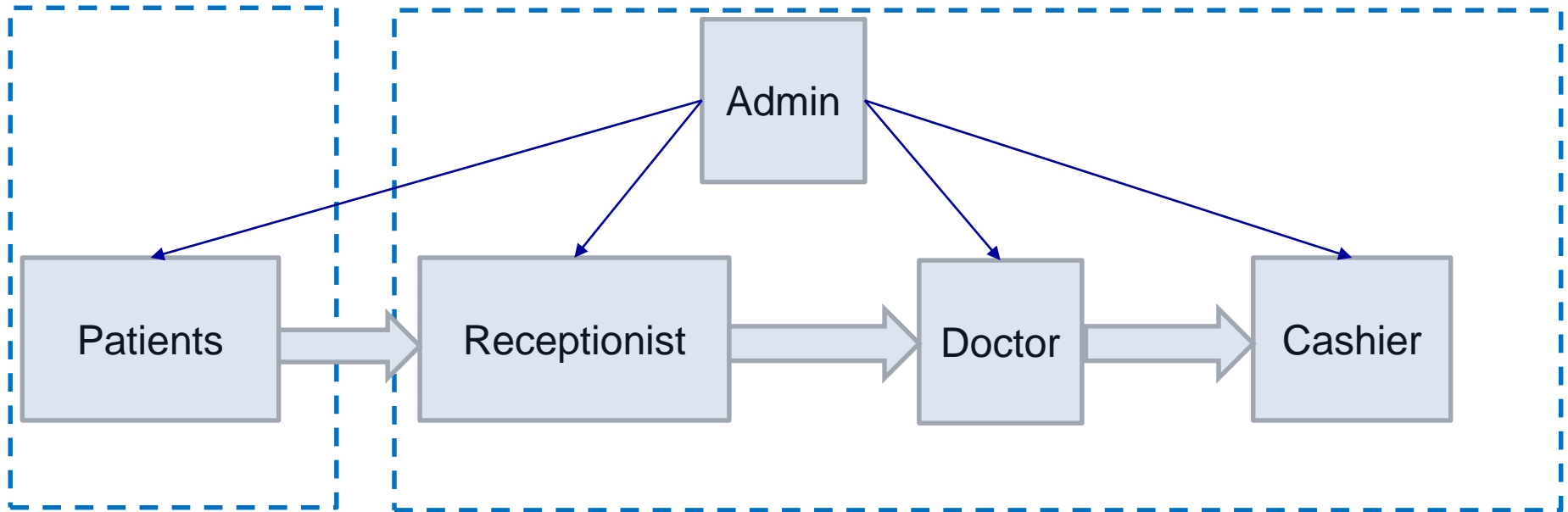
➤ Step 1: Overview about your database system

- Where the databases are used?
- How they are related?
- Who involve in the database and how?

➤ Step 2: Show the functionalities of your database system

- How a data is “IN”, “OUT”,
“MODIFY”, “ACCESSIBILITY”?

A database example



Database example:

- **Users:** Admin, receptionist, Doctor, Cashier
- **Patients:** all patients
- **Patient-history:** to store all patient activities, each for one patient
- **Worklist:** to store and update patient activities.

A database example

users

ID	Name	Position	...
	Mr. A	Admin	
	Ms. B	Doctor	
	Ms. C	Receptionist	
	Ms. D	Cashier	
	Mr. E	Doctor	
	Prof. F	Doctor	

Admin
ADD, SEE, UPDATE,
DELETE

A database example

patients

ID	Name	Status	...
	Patient 1	Healthy	
	Patient 2	Sick	
	Patient 3	Broken hand	

Receptionist
ADD, SEE, UPDATE,
DELETE, etc.

patient 1-history

DATE	Activity	Doctor	Status
	Exam heart	Mr. A	Debt
	Eyes	Dr. B	Paid
	Bone	Ms. C	

Doctor
SEE, UPDATE,

Cashier
SEE, UPDATE,

Receptionist
ADD, SEE, UPDATE,

A database example

worklist

ID	DATE	Patient	Doctor	Receptionist	Cashier
		Mr. A	Dr. A	Ms. R1	Ms. C1
		Ms. B	Prof. B	Mr. R3	Ms. C2
		Ms. C	Dr. A	Ms. R2	Ms. C2

Doctor
SEE/ UPDATE

Receptionist
ADD/ SEE/
UPDATE/DELETE

Cashier
SEE/ UPDATE

A presentation example

<https://www.youtube.com/watch?v=qQISaDJWc9I>

Final Project Grading Rule

Performance	Score
Contains CSS, HTML, FORM, DATABASE and be able to connect to the database (server is working)	4
Be able to ADD/INSERT data from HTML FORM	+1
Be able to DISPLAY (SELECT) data from database	+1
Be able to MODIFY (UPDATE) data in the database via FORM (HTML)	+1
Be able to REMOVE (DELETE) data in the database via FORM (HTML)	+1
Be able to classify ACCESS (Login, right to access, remaining session)	+1
Be able to work with “quite” complex data, logical, calculation, good design (Database and operations)	+1

Final exam

1. CLOSED BOOK
2. 3 hours
3. Total 60 questions= 40 multiple choices + 20 short answer
4. Main contents:
 - HTML
 - CSS
 - FORM
 - VARIABLES
 - PHP
 - MySQL: ADD/ UPDATE/ DELETE/ ACCESS
 - PROCEDURES
 - FUNCTIONS
 - TRIGGERS