



Web based application for Exam Design

Web based application for Exam Design

Under supervision of:

➤ **Dr. Soaad Mohamed Naguib.**



Project Team Member

- Azza said Mohamed Ali.
- Fatma Hesham Ahmed Abo Zied.
- Nora Hamza Ahmed Abd Elhafez.
- Samar Mohamed Hamed Sheta.
- Zeinab Ibrahim El Shahat Mohamed.

Acknowledgement

- We would like to express our gratitude to our supervisor Dr. **Soaad Mohamed Naguib**, whose vast knowledge, expertise, skill, patience and understanding, added considerably to our graduate experience.
- Very special thanks go out to Eng. /**Merna el fakhrary** With her motivation and encouragement, she helps us and provides advices to finish our graduation project.

Agenda

- **Introduction**
- **Analysis and requirement**
- **System design**
- **Forms and reports**
- **Future work**
- **conclusion**

Background and motivation

- Manual method is a very hard process and need a lot of concentration .
- Professors may missed some parts of important questions ,questions cannot cover all levels of difficulty.
- The disadvantage of manual exam designing it requires effort and a lot of time therefore the proposed project will develop a tool for designing exam all types of questions.

Problem definition

- Estimated time may be unsuitable for answers
- Level of difficult may be unsuitable for all students
- Instructor may missed some important parts in course
- Instructor cannot determine standard of student

Objective of the proposed System

Developing a tool for exam design which will help instructor in

- putting exam effortlessly
- contain all parts of the course(all important questions)
- contain all levels of difficulty therefore instructor can determine the standard of student

Agenda

✓ Introduction

- Analysis and requirement
- System design
- Forms and reports
- Future work
- conclusion

Analysis and Requirement

- **Functional requirement**
- **Nonfunctional requirement**
- **System requirement**
- **user requirement**
- **Business requirement**

- **Functional requirement**

- **Process-oriented :**

A process the system must perform; a process the system must do

- **Information-oriented:**

Information the system must contain

Nonfunctional requirement

- **Operational:**

The physical and technical environments in which the system will operate

- **Performance:**

The speed, capacity, and reliability of the system

- **Security:**

Who has authorized access to the system under what circumstances?

- **Culture & political:**

Cultural and political factors and legal requirements that affect the system.

- **System requirement**

Hardware

software

- **user requirement**

What the users need to do

- **Business requirement**

Business Goals and Objectives

The main objective of this project is helping university professor design exam easily

Problem Statement:

Manually design exam may be tired and fatigued and consumes lots of time and the professor cannot collect all the parts of course

Project Description:

this system will help professor design exams automatically

Scope :

facilitate process of designing exams.

Stakeholder

University professors considered the main stakeholders of this system

Requirements Elicitation

- **Interviews**
- **JAD sessions,**
- **Questionnaires,**
- **Document analysis,**
- **Observation.**

Interview

- **Selecting Interviewees** : user
 - Selecting number of professors
 - **Designing Interview Questions:**
open-ended question /structured interview
Explain idea of proposed system
What are the difficulties faced by professor during creating exam?
 - **Preparing for the Interview**
Professors determine suitable time of meeting
 - **Conducting the Interview**
Record all information
 - **Post-Interview Follow-up**
Interview Report.
- ☐ it will be explained in appendix A

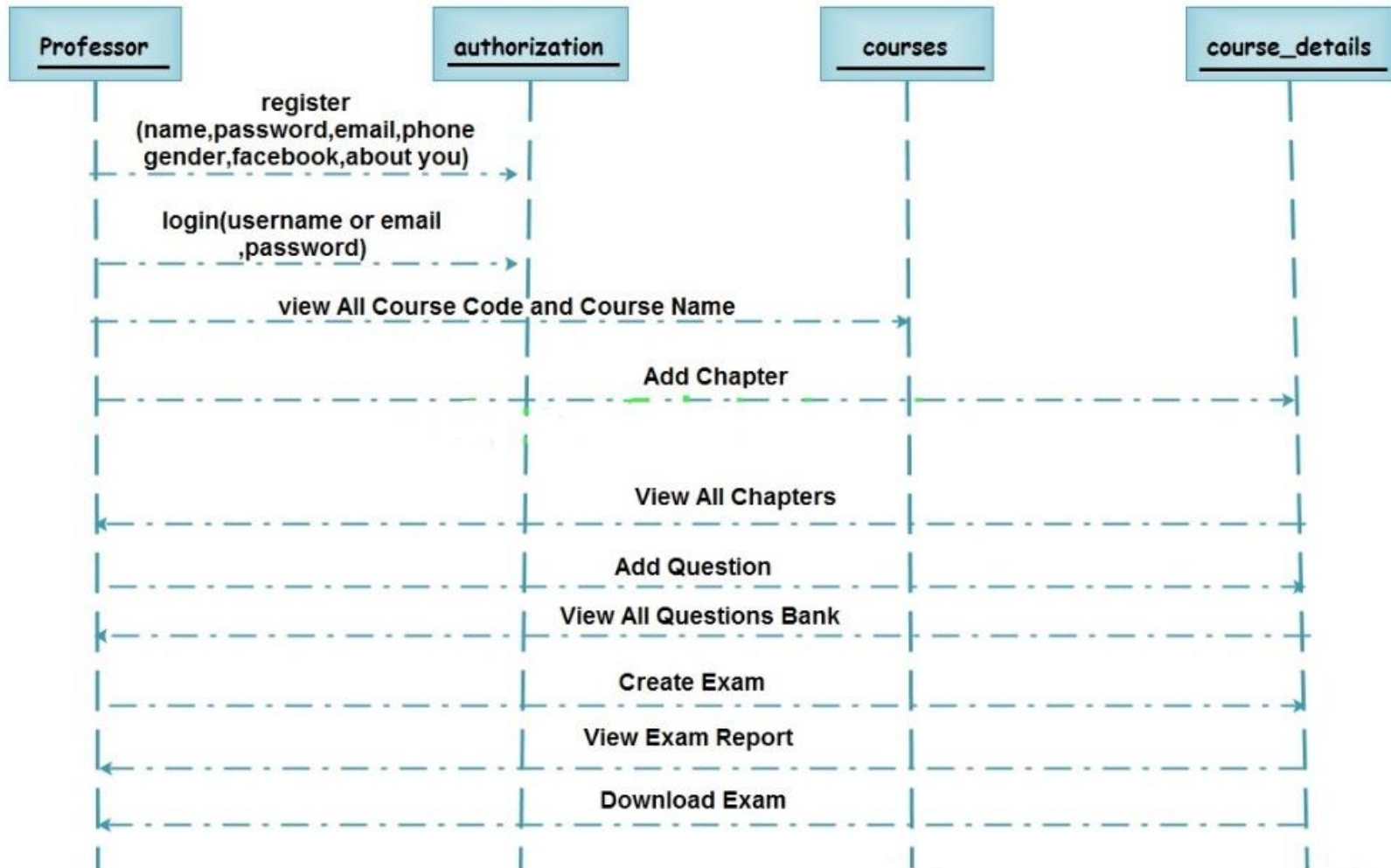
Agenda

- ✓ **Introduction**
- ✓ **Analysis and requirement**
 - **System design**
 - **Forms and reports**
 - **Future work**
 - **conclusion**

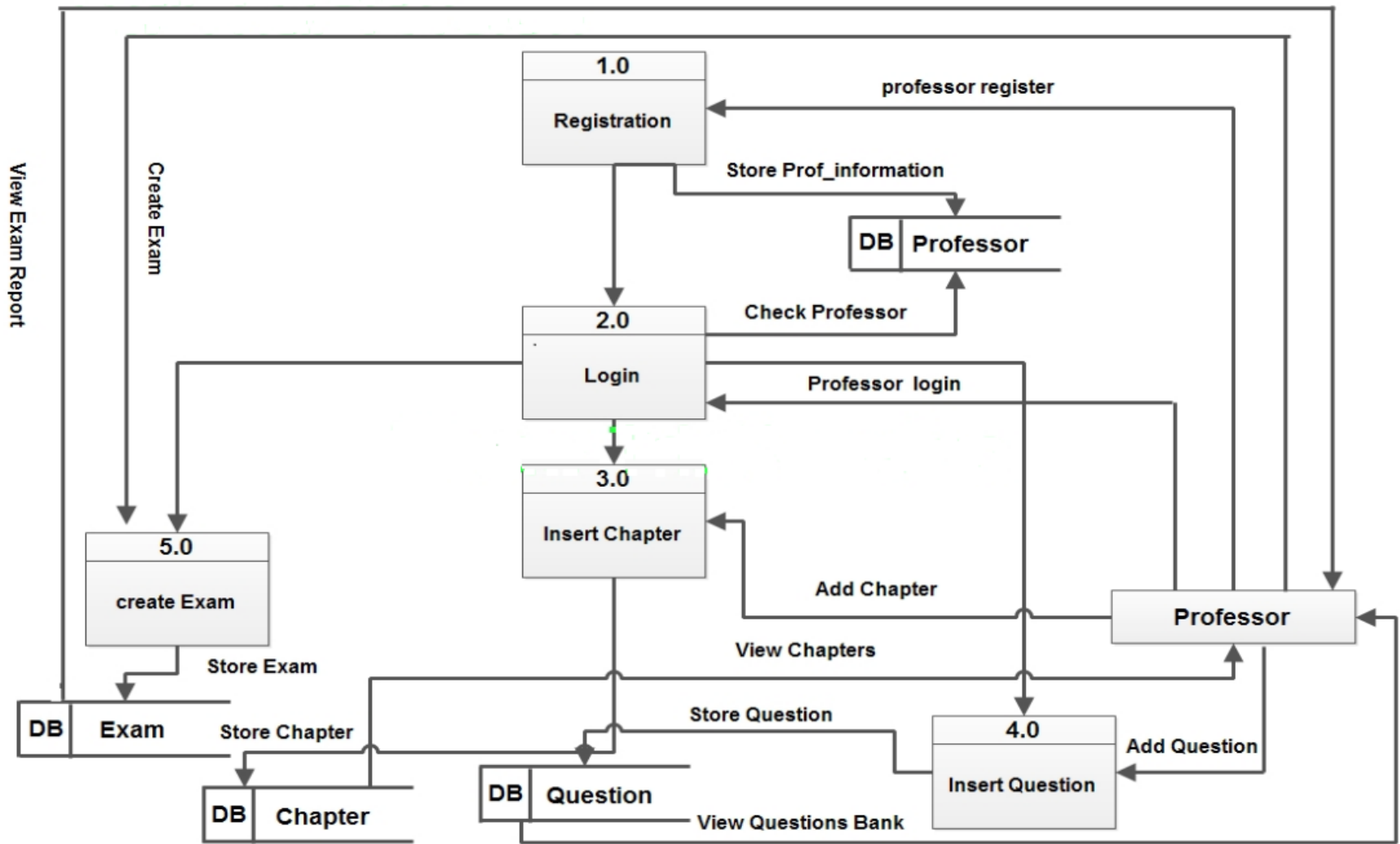
System Design

- **Sequence Diagram**
- **Data Flow Diagram**
- **Logical ER Diagram**
- **Physical ER Diagram**
- **Use case Diagram**

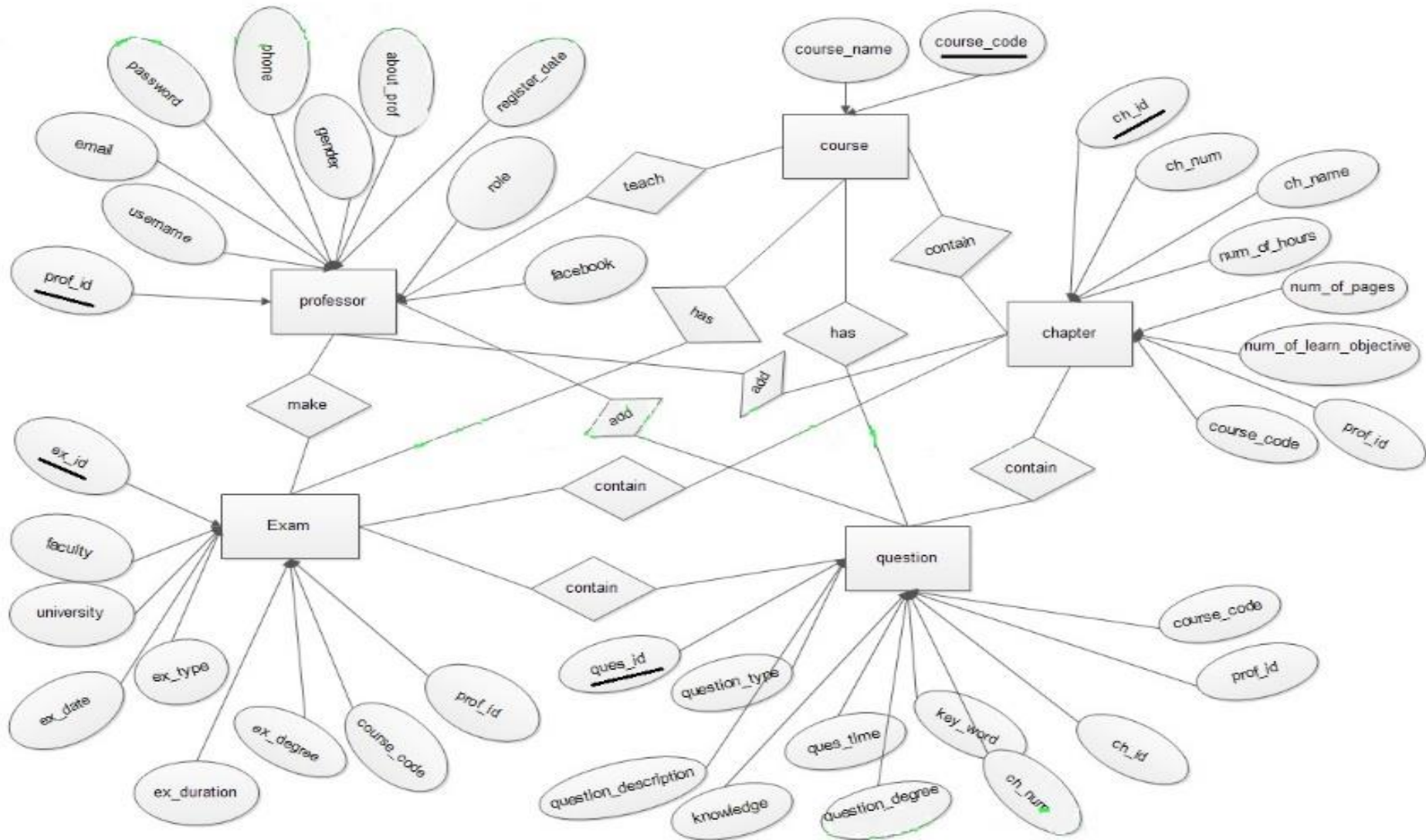
Sequence Diagram



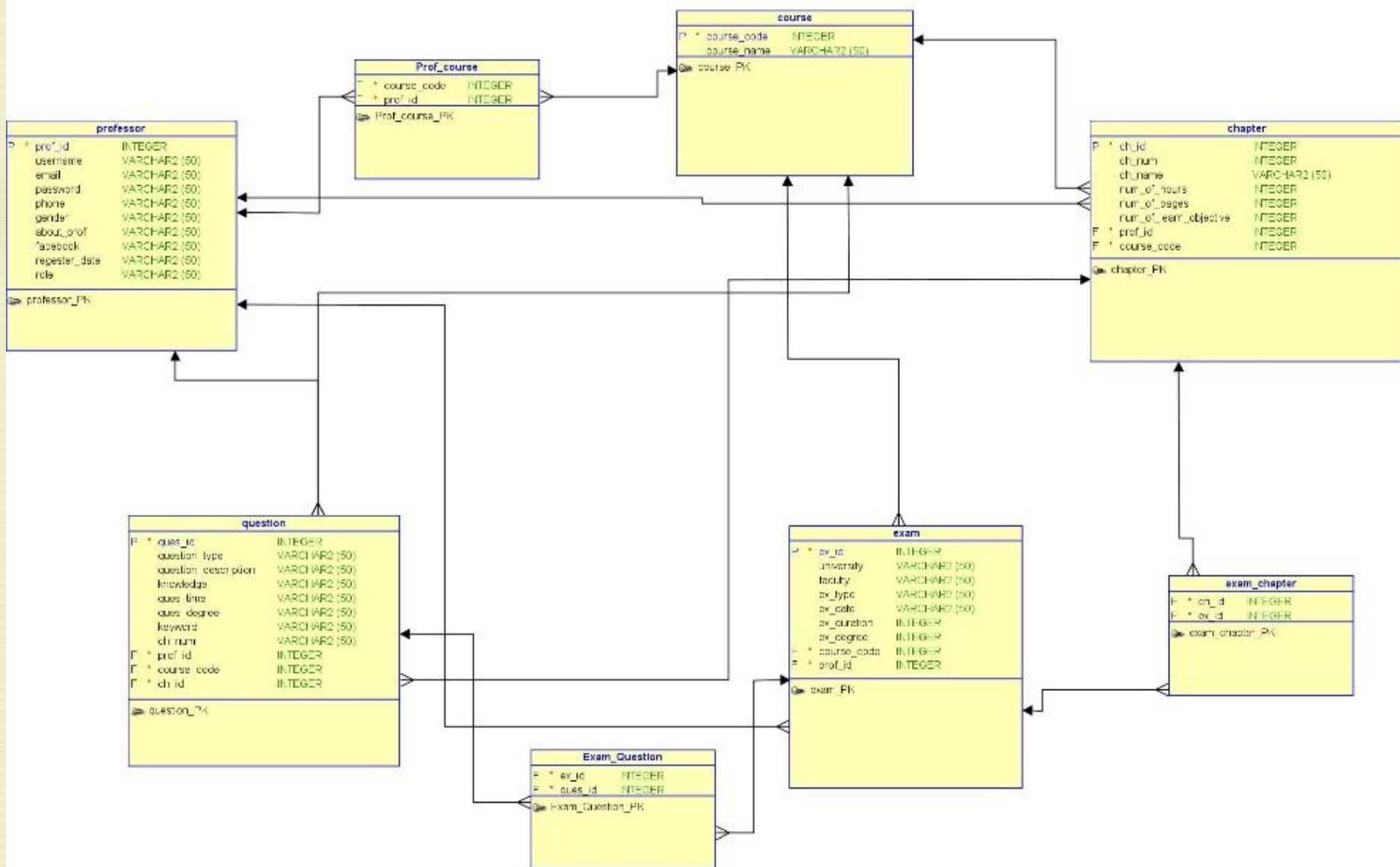
Data Flow Diagram



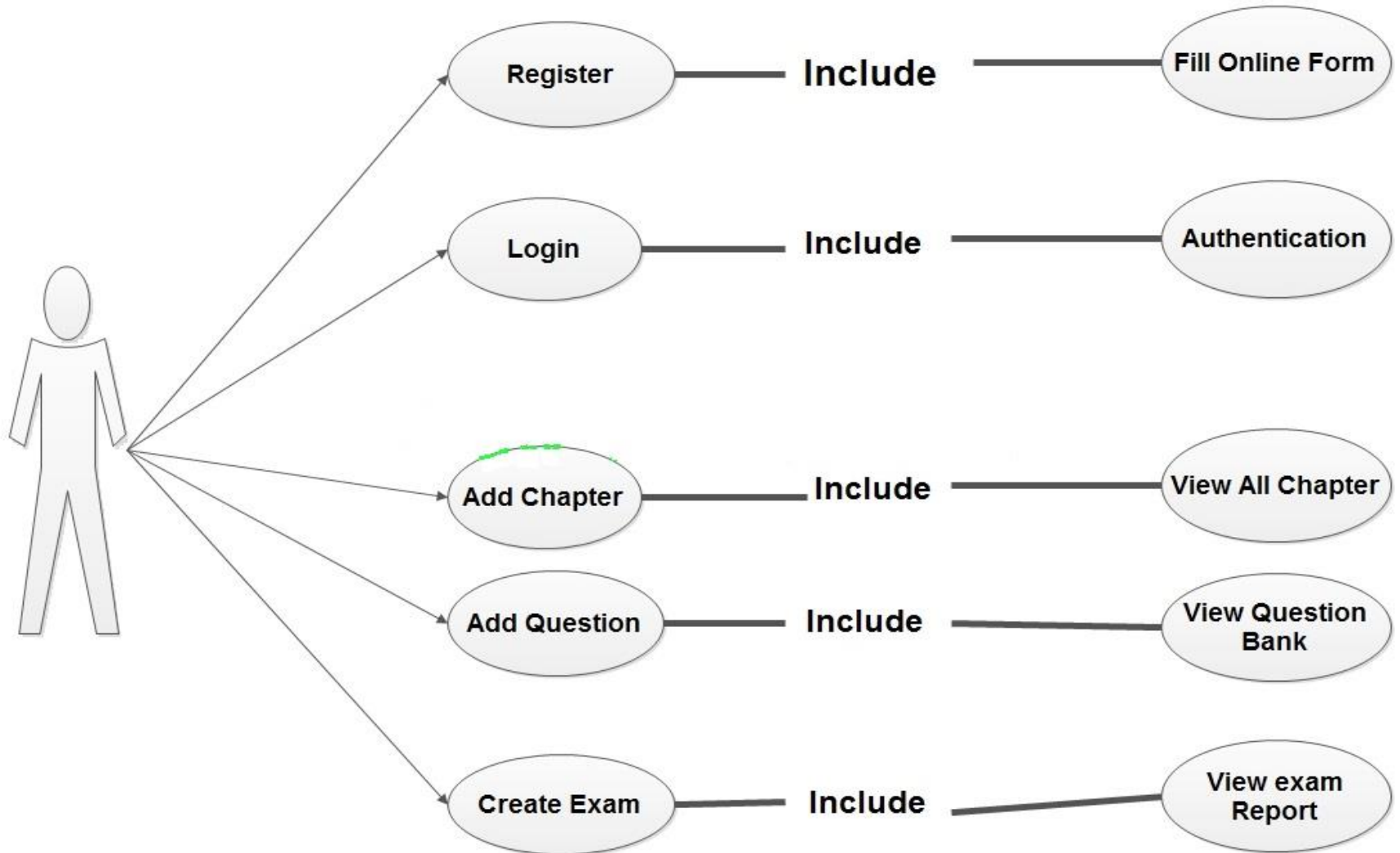
Logical ER Diagram



Physical ER Diagram



Use case Diagram




Agenda


- ✓ **Introduction**
- ✓ **Analysis and requirement**
- ✓ **System design**
 - **Forms and reports**
 - **Future work**
 - **conclusion**


Forms of Exam design system


[Exam_Design](#) [Home](#) [course](#) [Help!](#) [login](#)




Login form







Login

 [New user?Register](#)

fppt.com

Registration Form

 Register new user input(*) Required

*User_name:

*Email:

*Password:


* Re_Password:

phone:

gender:

About you:



Sign in 

After Registration

Exam_Design

Home

course

Help!

course details ▾

log out

welcome Dr/ Hoda



email: Hoda@yahoo.com

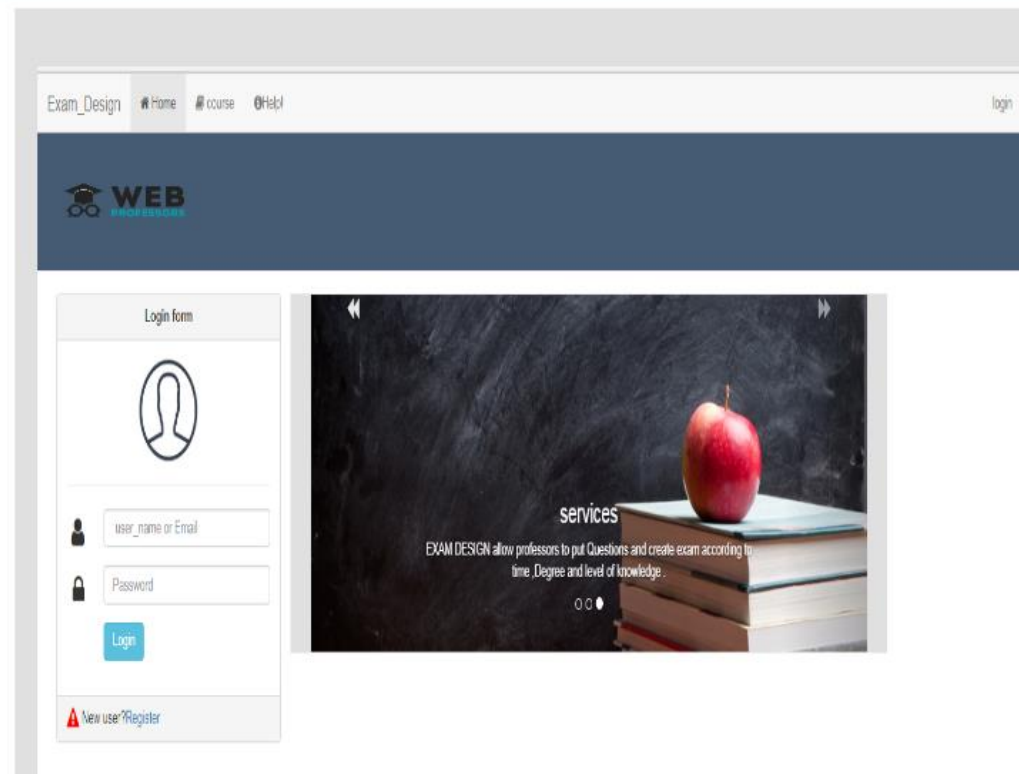
links 

Course tab

View Courses

Course Name	Course Code
Operating system	CS230
Artificial intelligence	CS310
Big data	CS430
Modeling and Simulation	DS500
Multimedia database	IS 440
Computer skills	IS110
Data mining	IS410
Systems Analysis and Design	IS414
Expert Systems and Decision Support Systems	IS565
Internet programming	IT320
Network	IT420
Digital Logic Design	IT500

Help! tab



This is home page

Add Chapter Form

Add new Chapter

Chapter num:

2

Chapter name:

overview

Course code:

CS310

num of hours:

2


num of pages:


30

num of learn
obj:

2

successfully insert

insert 

 course details ▾

add Chapter

view Chapters

Add Question

Question Bank

Create Exam

All Chapters

View All Chapters

Course_code: IT420

Select

ch_num	ch_name	num_of_hours	num_of_pages	num_of_learn_objective
1	introduction	2	30	3
3	Encryption Techniques	4	60	5
4	Block Ciphers	3	70	5
5	Public-Key Cryptography and RSA	4	80	6

Add Question

? Add new Question

Question_type:

Description:

knowledge:

Time:

Degree:

CH_Num:

Course code:

Keyword:

successfully insert

ADD +

Question bank

? View Question Bank

Course_code:

Select

Type	Description	knowledge	Time	Degree	Keyword
explain	what is network?	recall	1	1	network definition
explain	What is the difference between a monoalphabetic cipher and a polyalphabetic cipher?	comprehension	1	2	encryption
true and false	Symmetric encryption remains by far the most widely used of the two types of encryption?	application	2	2	encryption
true and false	DES uses a 56-bit block and a 64-bit key?	analysis	1	1	Block Ciphers
multiple choice	The Nyberg approach that is more or less a manual approach with only simple mathematics to support it is _____. ? A) human_made ? B) ?random C) ?math-made ? D) ?random with testing	advanced	1	1	Block Ciphers

Create Exam

Create Exam

university:

faculty:

Exam_type:

Course_code:

Date:

Duration:

Degree:

Recall :

Comprehension:

Application:

Analysis :

Advanced :

Create

View Exam

Zagazig university
faculty of computer and information
Course_Code:IT420
Time Allowed:20 min
Date:10-2-2017
Full Mark:20
Exam Type:Quiz



Question 1: explain

- 1 what is network?
- 2 What is the difference between a monoalphabetic cipher and a polyalphabetic cipher?

Question2:multiple choice

- 1 The Nyberg approach that is more or less a manual approach with only simple mathematics to support it is..... ? A) human_made ? B) ?random C) ?math-made ? D) ?random with testing

Question 3:complete

- 1 advantages of network are
- 2 types of network

Question 4:true and false

- 1 Symmetric encryption remains by far the most widely used of the two types of encryption?
- 2 DES uses a 56-bit block and a 64-bit key?

View Exam

Zagazig university
faculty of computer and information
Course_Code:IT420
Time Allowed:20 min
Date:28-6-2017
Full Mark:10
Exam Type:Quiz



Question 1: explain

- 1 what is network?
- 2 What is the difference between a monoalphabetic cipher and a polyalphabetic cipher?

View Exam

Question 1: explain

- 1 what is network?
- 2 What is the difference between a monoalphabetic cipher and a polyalphabetic cipher?

Question 2: multiple choice

- 1 The Nyberg approach that is more or less a manual approach with only simple mathematics to support it is..... ?
A) human_made ? B) ?random C) ?math-made ? D) ?random with testing
- 2 . A is a set in which you can do addition, subtraction, multiplication and division without leaving the set. A.) record B.) standard C.) filed D.) block

Question 3: complete

- 1 advantages of network are
- 2 types of network

Question 4: true and false

- 1 Symmetric encryption remains by far the most widely used of the two types of encryption?
- 2 DES uses a 56-bit block and a 64-bit key?

Programs that used

- 1- E_draw Max**
- 2- Data modeler**
- 3-Sublime Text 3**
- 4-Xampp phpMyAdmin**
- 5-Xampp Apache**

methodologies that used

- **4.3.1 Html**
- **4.3.2 Css**
- **4.3.3 JavaScript**
- **4.3.4 JQuery**
- **4.3.5 Bootstrap**
- **4.3.6 Php**

Agenda

- ✓ **Introduction**
- ✓ **Analysis and requirement**
- ✓ **System design**
- ✓ **Forms and reports**
- **Future work**
- **conclusion**

Future work

- Our web based application can be deployment in our faculty by making professors register in the system then add chapter, add question, create exam and the system can represent the reports like report of all chapters ,report of question bank and report of viewing exam .
- In future plan
We want expand the system to include students do exams online and the system show the results in the same time after doing the exam.

Agenda

- ✓ Introduction
- ✓ Analysis and requirement
- ✓ System design
- ✓ Forms and reports
- ✓ Future work
- conclusion

Conclusion

- With increasing the parts of course and diversity of standard of students, making suitable exam for time and level of knowledge become A very difficult problem for professors, they cannot make it easily.
- We make a web based application exam design system that help professors to make easily exams. This system save their efforts and time.
- in this system we offer some forms like add chapter add question and create exam.
- Our system is very flexible and simple so any professor can deal with it easily.

Agenda

- ✓ Introduction
- ✓ Analysis and requirement
- ✓ System design
- ✓ Forms and reports
- ✓ Future work
- ✓ conclusion

THE END

*Thank
you*

