FCIH

Requirements Specification

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2. Introduction

2.1. Purpose of Document

This Document is a Study of the requirements to implement suitable Portal for faculty. Include Professor, Students, TAs requirements and so on.

2.2. Scope of Product

We implement a Portal in Faculty of computers and information Helwan university. FCIH is responsible for Faculty, Professors, Teacher assistants, Students and student affairs needs. Like adding new comers, Confirm fees and check attendance in easy way.

2.3. Definitions, acronyms, abbreviations

FCIH: Faculty of computers and information Helwan university.

TA: Teacher Assistant.

2.4. References

- FCIH website.

-Students and professors in FCIH.

2.5. Overview of remainder of document

In this document, we will explain the systems and its functions that the Portal will serve, Explain Registration of new comers and Registration of subjects, who can make requests and reports, Explain Types of users who use the portal with the different views. And determine the time and the budget that we need.

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3. General Requirements

3.1. Product perspective

- The portal's systems types:

1- Professors.

2- Teacher assistants.

3- Student affairs.

4- Master/Doctorate/Bachelor's Students.

- The portal is made to manage the faculty system, like generating student transcript and manage tables, and provide easy communication between professors and students.

3.2. Product functions

Administrator

1- Add Students/Courses/Professors.

2- Add another admins.

3- Monitoring by Showing all tables in database.

4-View messages.

5-Write To do list if needed.

6-View some statistics.

The Professors System

1- Select subject.

2- Choose his teacher assistant.

3- Make Course plan and determine the section track for his TA.

4- View Students who registered his subject.

5- Record students grade.

6- Share (Upload) sources/Assignments to students.

7- Manage student's attendance.

8-Add Personal information.

Teacher Assistant

1- Check time of his section.

2- Record section grades.

3- Share sources/files to students.

4- make alarms.

5- Add Projects/Coversheets/Requirements.

Student affairs

1- Add/Confirm/Check fees.

2- Check/Accept/Refuse Students Requests.

3- check attendance of students.

4-Send requests to admin.

Students

1- Register subjects.

2- View academic records.

3- Add/Drop subjects.

4- Send exception requests.

5- View table after registration.

6- scan QR code from their accounts.

6- Modify his personal information.

7- Evaluate professors.

8- Pay fees online.

9- Edit changeable personal information and Upload personal picture.

10- View Professors profiles.

11-Confirm registration.

3.3. User characteristics

-The users request comfortable color for Portal.

-They want the easy way to Add/Delete/Use/Present the data "Like forms, tables, comfort and good design, Quick buttons and good query performance".

-They preferred the short notes and detailed about the requests in short paragraph "Like Title of the subject and its optional description".

-Easy to login, pay and use in general.

-Managers want a synchronous portal is provided. And used by more than one person at a time.

-Users preferred Help instructions.

-Easy attendance system.

3.4. General constraints

ask Name	Duration	Start	Finish	Predecessors
Requirments	**18.25 days**	**Fri 17/03/10**	**Wed 17/04/05**	
Meet the Manager & Stuff	1.29 days	Fri 17/03/10	Sat 17/03/11	
Collect Requirments	1.33 wks	Fri 17/03/10	Sat 17/03/18	
Brainstorming with Team	2 days	Sat 17/03/18	Tue 17/03/21	3
Analysis Requirements	3 days	Wed 17/03/22	Mon 17/03/27	4
Design Report	1 day	Mon 17/03/27	Tue 17/03/28	5
Document a report	2 days	Tue 17/03/28	Sat 17/04/01	6
Revise Report	1 day	Sat 17/04/01	Sun 17/04/02	7
Deliver the report	1 day	Sun 17/04/02	Mon 17/04/03	8
Develop The Requirements	2 days	Mon 17/04/03	Wed 17/04/05	9
Planning	**6 days**	**Wed 17/04/05**	**Sun 17/04/16**	**10**
Preduce Objectives	1 day	Wed 17/04/05	Sat 17/04/08	
Document the Scope	3 days	Sat 17/04/08	Wed 17/04/12	12
Details Requirement Engineering	2 days	Wed 17/04/12	Sun 17/04/16	13
Distribute Tasks	**1 day**	**Sun 17/04/16**	**Mon 17/04/17**	**14**
Analysis & Design	**40 days**	**Mon 17/04/17**	**Sat 17/06/17**	**15**
Make UML	2 mons	Mon 17/04/17	Sat 17/06/17	
Implementation	**1 mon**	**Sat 17/06/17**	**Mon 17/07/17**	**17**
Correction \Testing	**3 days**	**Mon 17/07/17**	**Sat 17/07/22**	**18**
Test Code	1 day	Mon 17/07/17	Tue 17/07/18	
Test Logic	1 day	Mon 17/07/17	Tue 17/07/18	
Meet the Manager & Stuff	1 day	Tue 17/07/18	Wed 17/07/19	21
Editing	1 day	Wed 17/07/19	Sat 17/07/22	22
Comparison (Requirement specification)	1 day	Wed 17/07/19	Sat 17/07/22	22
Delivered	**1 day**	**Sat 17/07/22**	**Sun 17/07/23**	**24**

Deadline of planning is “16-6-2018”

Budget till the end of planning tasks: $100

3.5. Assumptions and dependencies

-Information of all user must be stored in database.

-User may access from any computer that has internet.

-System running 24 hours.

-All pages have access.

-The system easy to use.

4. Specific Requirements

4.1. Functional, non-Functional

=Functional=

- Allows users to Access the portal with ID and Password, to show everyone's his interested part (View) of data.

- Allows notify to alarm users if there is new message or request.

- provides ways to communication needs.

- provide table generator and suggest specific subjects based on his registration history.

- provide attendance system with (Student Name, check box) to make sure that the student attended.

- Allow registration system (Add/Drop).

- provide forms to add new comers easily.

=Non-Functional=

-App Easy to use.

-High performance.

-Fast receiving.

-has “Backup and Recover the data”.

-communicates with all users.

-Allows “Search in data” Querying.

-High Security.

-Allow Concurrency.

4.2. Interface Requirements

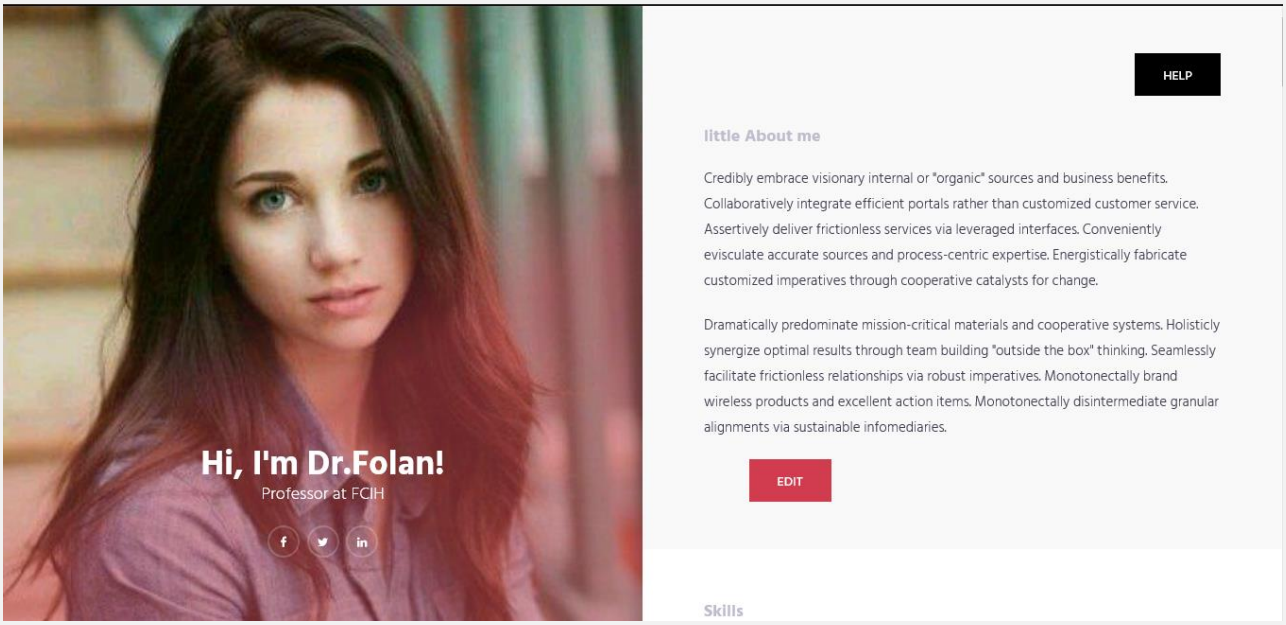
-Has animation buttons.

-Main colors are the degrees of Red & Pink & Blue.

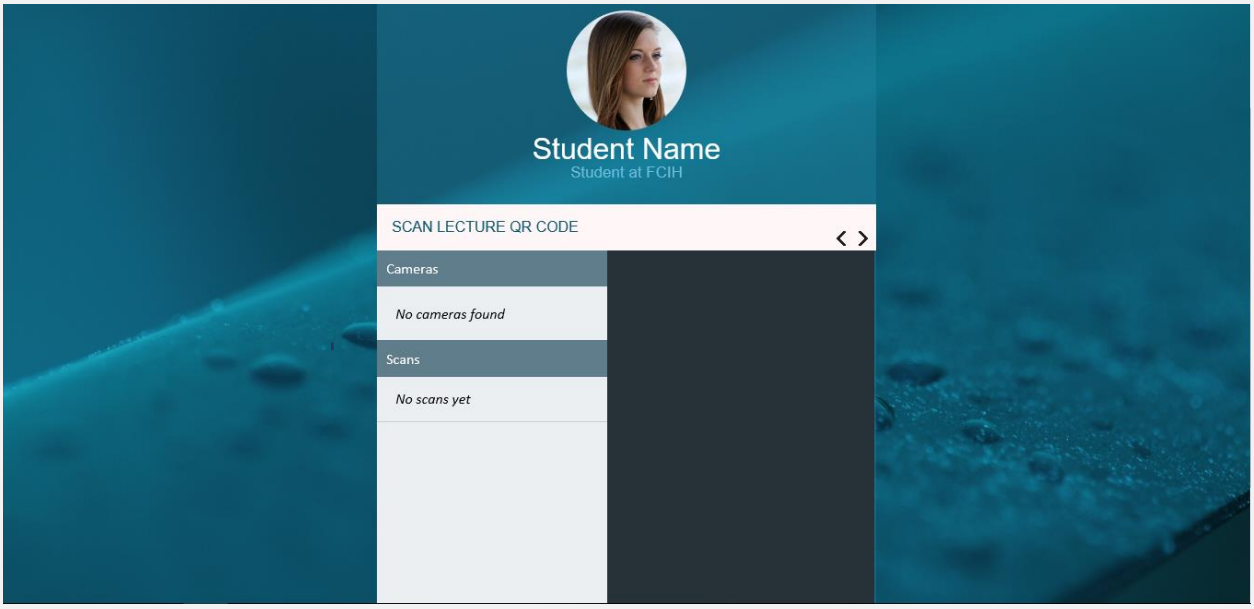
-Short Pages (Briefly information).

-Provide Statistics (like % who success in specific subject).

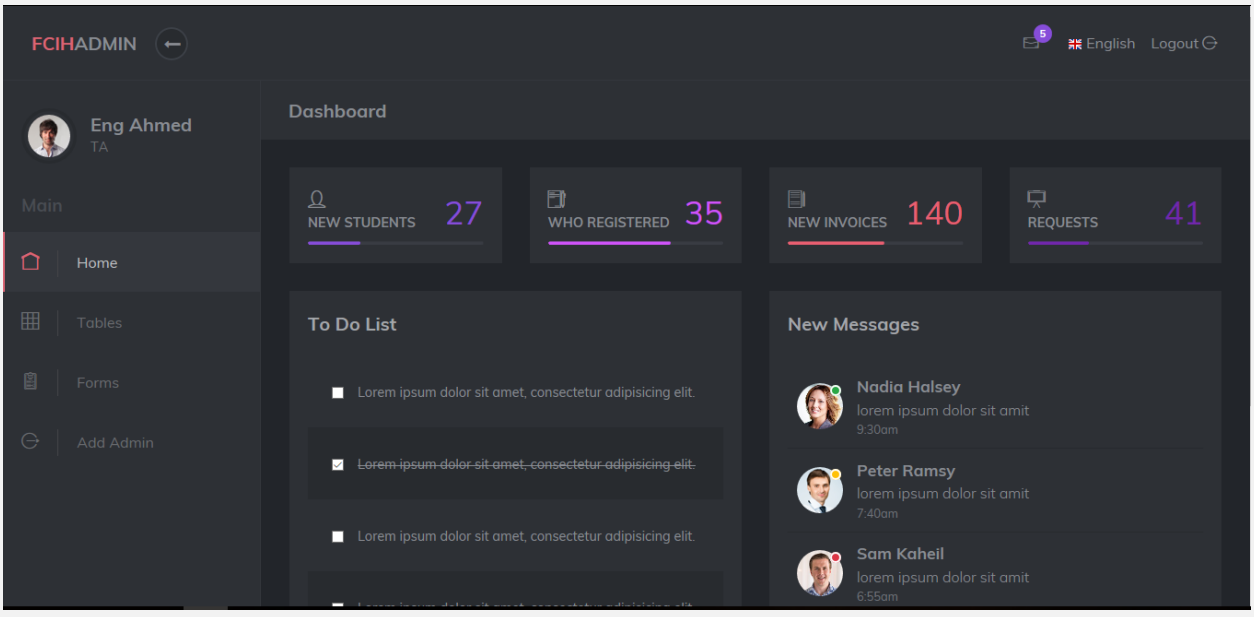
=Professor=



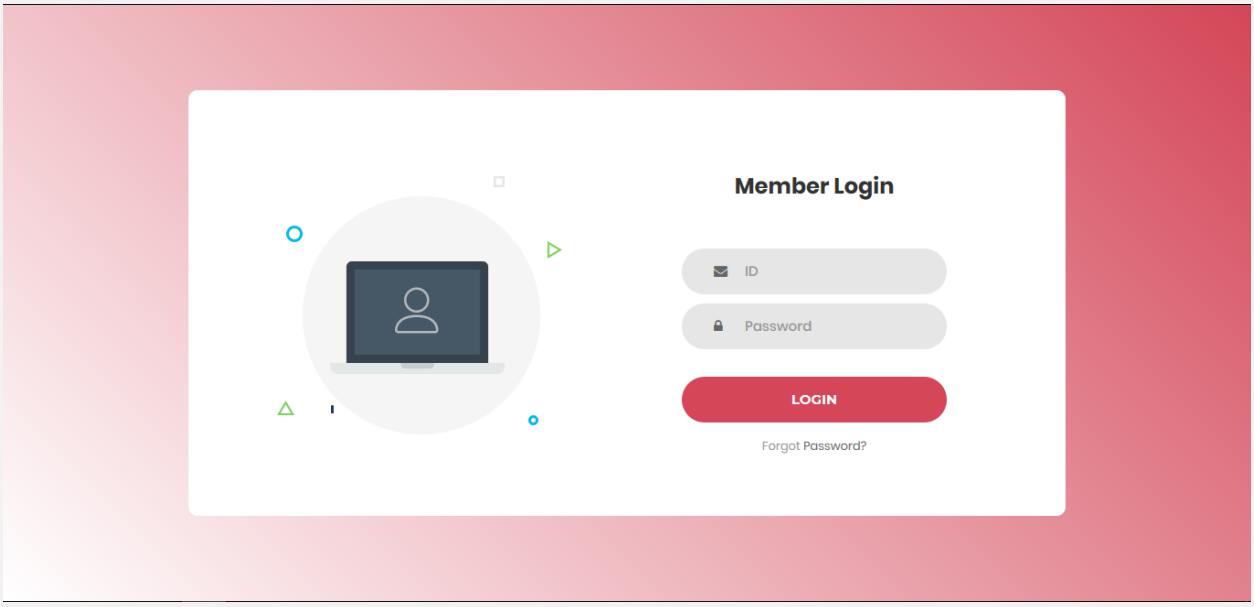
=Student=



=Admin=



=Login=



4.2.1 Logical Database Requirements

-Organized Database.

-has the need data.

-Concurrency Access.

-Allow ACID “Atomicity, Consistency, Isolation and Durability”.

-Efficient query processing.

-Backup & Recovery.

-Multiple user interface and user view.

5. Appendices

=Websites:

- FCIH : www.fcih.helwan.com

=Direct Resource:

- Engineer Hadeer Ismael.
- Random Students.