DEVELOPMENT OF INFORMATION SYSTEM FOR REGISTRATION
DEPARTMENT OF AL-AMEEDA UNIVERSITY

of the master graduate qualification work
for the student of the group CE-229

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In this project, we are discussing the data management system of Al-Ameed university. It is an educational institution with 5000 students, this number is incrementable.

The paper-based system, which is used at the university, requires great effort and a long time and large size to store.

We developed the automated system aimed at processing university data, to reduce the waste of money and effort in this area, and thus we get more accurate results, to manage data of university.
Research Goal and Objectives

Goal:

To create a web application to manage student's information in the registration department of Al-Ameed University.

Objectives:

1. Describe and Analysis of the subject area
2. Design and create a database to store university data
3. Design web application for manage database of the university
4. Choose tools for realization system
5. Realization of the university management system
6. Testing of the web application
Functional Requirement

CRUD (Create, Read, Update, Delete)

- CRUD users to the system
- CRUD department
- CRUD courses and tasks for students
- Save result of tasks
- CRUD marks for students
- Pass students to a new stage
Comparative Analysis of Analogues

Analysis of the logical sites of some Iraqi Universities:

- University of Baghdad

- University of Babylon
System Development Software Tools

- Frameworks and Programming Languages for Web application
  - Bootstrap, HTML, CSS, JavaScript, PHP to develop the system
- Instruments used of Database Development
  - AppServ is a full-featured of Apache, MySQL, PHP, phpMyAdmin
Structure of The Project
Structure of The Project

- Above 150 SQL Queries
- 40 files
- 45 interfaces
- ≈5000 lines of source code
View of The Application Interfaces

- Home Page
View of The Application Interfaces

- Login Page

- Index Page
View of The Application Interfaces

Admin (Dean) Pages

- Add Users
- Show Users
## View of The Application Interfaces

### Admin (Dean) Pages

- **Pass Student**

#### Pass students

**Department:** Computer Engineering and Information, **Stage:** 1, **Year:** 2018-2019

<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shahad</td>
<td>Haider</td>
<td></td>
</tr>
<tr>
<td>Sura</td>
<td>Ahmed</td>
<td></td>
</tr>
<tr>
<td>Maraim</td>
<td>Ali</td>
<td></td>
</tr>
<tr>
<td>Ali</td>
<td>Farhan</td>
<td></td>
</tr>
<tr>
<td>Fadak</td>
<td>Mustafa</td>
<td></td>
</tr>
</tbody>
</table>

**PASS**
View of The Application Interfaces

Teacher Pages

- **Add Mark**
  - **Add New Mark**
    - **Course**: Microprocessors
    - **Student**: Maraim
    - **Mark**: 5
    - **Date**: 05/16/2019

- **Add Task**
  - **Add New Task**
    - **Course**: Computer Networks
    - **Task Title**: LAN, WAN
    - **Text**: What is the difference between LAN and WAN? Explain with example?
    - **Start Date**: 05/01/2019
    - **End Date**: 05/15/2019
View of The Application Interfaces

Student Pages

Show Mark

Course Information

Course: Microprocessors, Year: 2018-2019

<table>
<thead>
<tr>
<th>Student</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shahad</td>
<td>5</td>
</tr>
<tr>
<td>Sura</td>
<td>4</td>
</tr>
<tr>
<td>Maha</td>
<td>3</td>
</tr>
<tr>
<td>Rafal</td>
<td>3</td>
</tr>
<tr>
<td>Moraim</td>
<td>5</td>
</tr>
</tbody>
</table>

Solve Task

Course: Database Systems, Year: 2018-2019

<table>
<thead>
<tr>
<th>Solve Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student: Mohammed, Task: Type DB</td>
</tr>
<tr>
<td>Types of database are:</td>
</tr>
<tr>
<td>1. Centralised database.</td>
</tr>
<tr>
<td>2. Distributed database.</td>
</tr>
<tr>
<td>3. Personal database.</td>
</tr>
<tr>
<td>4. End-user database.</td>
</tr>
<tr>
<td>5. Commercial database.</td>
</tr>
<tr>
<td>Date: 05/14/2019</td>
</tr>
<tr>
<td>Are You Want To Submit The Solve</td>
</tr>
<tr>
<td>YES</td>
</tr>
</tbody>
</table>
Testing for the system

- Functional testing
- Tested 600 records in database
- Tested 30 function
Main Results

1. Described and Analyzed the subject area
2. Made a comparative analysis of analogs sites
3. Declared functional and non-functional requirements for the system
4. Designed use case diagram for the system
5. Designed the database schema
6. Chose development tools for the implementation of the system
7. Realization of the system
8. Tested the system