DEVELOPMENT OF WEB-SITE FOR DEPARTMENT OF
SCIENTIFIC AFFAIRS AND CULTURAL COMMUNICATIONS
IN THE UNIVERSITY OF TECHNOLOGY (BAGHDAD)

of the master graduate qualification work
for the student of the group CE-216

Zahraa Mohammed
Hilal Alaqili

Supervisor:
Ph.D., associate professor of the department of system programming
O.N. Ivanova

Chelyabinsk – 2017
ACTUALITY

- In the department of scientific affairs and cultural communications in the University of Technology (Baghdad) we need a system that make the work inside the department easier, to save time and effort on employees and students and to facilitate whether the needed documents are completed or are still in progress.

- This system will reduce the efforts and load of the staff of the department of scientific affairs and cultural communications by providing simple interfaces for all possible users.
Goal:

The goal of the research is the development of web-site for department of scientific affairs and cultural communications in the University of Technology (Baghdad)

Objectives:
- to analyze the subject area;
- to implement the problem statement;
- to implement the comparative analysis of analogues;
- to make analysis of modern tools of web sites development and choose tools for project development;
- to design database scheme;
- to design the interfaces;
- to implement the description of the process of web-application development in CMS Joomla!
- to implement and test the web-site for department of scientific affairs and cultural communications in the University of Technology (Baghdad);
Analysis of the logical sites of some Arabic universities:
- King Saud University;
- Umm Al-Qura University Mecca;
- University of Babylon.
SCHEME OF DATABASE

Relationships:

Degree of Study:
- Id_degree_study
- Degree_Study_name
- Basic_salary
- Id_Category

Student:
- Id_Student
- Id_degree_study
- Surname
- First_Name
- Second_Name
- Third_Name
- Age
- Marital_status
- Gender
- Id_WorkPlace
- Id_City
- Extension_Period_Start
- Extension_Period_End
- number_of_family_members
- fees_for_foreign_course
- Username
- password
- Date_of_the_administrative_order
- Date_of_starting_study
- Date_of_leaving_work
- Number_of_studying_years
- fees_for_leaving_country_ticket
- fees_for_return_to_country_ticket

Financial dues:
- Id_Financial_dues
- Id_student
- tuition_fees
- year

Staff:
- ID
- surname
- name
- Username
- password
- Role

Documents:
- Id_Document
- Id_student
- Id_type
- Document_Number
- Document_Date

Type of document:
- ID
- Document_Name

City:
- ID
- City_name
- Id_Country
d

Country:
- ID
- Country_name
- Id_Degree_city
- Degree_Name

Category student:
- Id_Category
- Name_Category

Work place:
- Id_workplace
- Name_workplace
IMPLEMENTATION

- CMS: Joomla! 3.6.4
- Language: PHP 5.4.45
## Interface for the Head of the Department

### Scholarship

- **Home**
- **Contact Us**
- **Location**

**Select Category:**
- All Categories

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Work place</th>
<th>Study</th>
<th>Category</th>
<th>Country</th>
<th>City</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ali Zainab Adnan Abbas</td>
<td>Registration and students affairs Department</td>
<td>Master degree</td>
<td>study leave</td>
<td>Russia</td>
<td>Chelyabinsk</td>
<td>Details</td>
</tr>
<tr>
<td>2</td>
<td>Boyle Susan Arthur Paul</td>
<td>Department of Architectural Engineering</td>
<td>Master degree</td>
<td>study leave</td>
<td>Russia</td>
<td>Yekaterinburg</td>
<td>Details</td>
</tr>
<tr>
<td>3</td>
<td>Alani Munahad Zuhair Jassim</td>
<td>Laser and Optoelectronics Engineering Department</td>
<td>Master degree</td>
<td>study leave</td>
<td>Russia</td>
<td>Moscow</td>
<td>Details</td>
</tr>
<tr>
<td>4</td>
<td>Smith Mark David Matthews</td>
<td>Control and Systems Engineering Department</td>
<td>PHD degree</td>
<td>study leave</td>
<td>USA</td>
<td>NewYork</td>
<td>Details</td>
</tr>
<tr>
<td>5</td>
<td>Alhassani Muhammed Fadhel Abbas</td>
<td>Department of Materials Engineering</td>
<td>PHD degree</td>
<td>study leave</td>
<td>China</td>
<td>Beijing</td>
<td>Details</td>
</tr>
<tr>
<td>6</td>
<td>Albright Benjamin George Paul</td>
<td>Department of Chemical Engineering</td>
<td>Master degree</td>
<td>study leave</td>
<td>Egypt</td>
<td>Cairo</td>
<td>Details</td>
</tr>
</tbody>
</table>

**Sign out**
## Manager’s Interface

### Scholarship Interface

**Select Category:**
- All Categories

### Table:

<table>
<thead>
<tr>
<th>Select</th>
<th>Number</th>
<th>Name</th>
<th>Work place</th>
<th>Study</th>
<th>Category</th>
<th>Country</th>
<th>City</th>
<th>Details</th>
<th>Modify</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>Ali Zainab Adnan Abbas</td>
<td>Registration and students affairs Department</td>
<td>Master degree</td>
<td>study leave</td>
<td>Russia</td>
<td>Chelyabinsk</td>
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<td>Master degree</td>
<td>study leave</td>
<td>Russia</td>
<td>Moscow</td>
<td>Details</td>
<td>Modify</td>
</tr>
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<td></td>
<td>4</td>
<td>Smith Mark David Mathews</td>
<td>Control and Systems Engineering Department</td>
<td>PHD degree</td>
<td>study leave</td>
<td>USA</td>
<td>New York</td>
<td>Details</td>
<td>Modify</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Alhasani Mohammed Fadhel Abbas</td>
<td>Department of Materials Engineering</td>
<td>PHD degree</td>
<td>study leave</td>
<td>China</td>
<td>Beijing</td>
<td>Details</td>
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<td>study leave</td>
<td>Egypt</td>
<td>Cairo</td>
<td>Details</td>
<td>Modify</td>
</tr>
</tbody>
</table>

© Scholarship 2017
**FUNCTION “DETAILS” AT MANAGER AND HEAD OF THE DEPARTMENT PAGE**

<table>
<thead>
<tr>
<th>Name: AlHadeeth Mona Bazzam Mahmoud</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age: 26</td>
</tr>
<tr>
<td>Gender: female</td>
</tr>
<tr>
<td>Marital status: single</td>
</tr>
<tr>
<td>Children amount: 0</td>
</tr>
<tr>
<td>Work place: Department of Computer Engineering</td>
</tr>
<tr>
<td>Date of the administrative order: 2016-07-13</td>
</tr>
<tr>
<td>Date of leaving work: 0000-00-00</td>
</tr>
</tbody>
</table>

| Study: PHD degree                   |
| Category: scholarship               |
| Country - City: Egypt - Cairo       |
| Degree of the City: 6               |
| Date of starting study: 0000-00-00   |
| Number of studying years: 6         |
| Date of Extension period start: 2017-04-04 |
| Date of Extension period end: 0000-00-00 |

**Financial Dues**

- Basic salary: 1900
- Final salary: 1600
- Fees for foreign language course: 0
- Fees for leaving country ticket: 0
- Fees for return to country ticket: 0

<table>
<thead>
<tr>
<th>Select</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2016</td>
</tr>
</tbody>
</table>

- **Tuition Fees**
  - 175000

**Documents**

<table>
<thead>
<tr>
<th>Select</th>
<th>Type of document</th>
<th>Number of document</th>
<th>Date of document</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University command for starting study</td>
<td>10</td>
<td>2017-04-04</td>
</tr>
<tr>
<td></td>
<td>Confirmation of continuation (every 6 months)</td>
<td>1</td>
<td>2017-04-11</td>
</tr>
</tbody>
</table>

**Delete Financial Due**

**Delete Document**

**Go Back**  **Add Document**  **Add Financial Due**  **print**  **Sign out**
"SEARCH" FUNCTION AT PAGE OF THE MANAGER

Please choose one
- Category
- Name
- City
- Work place
- Degree of the City

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Work place</th>
<th>Degree Study</th>
<th>Category</th>
<th>City</th>
<th>City Degree</th>
<th>Details</th>
<th>Modify</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Smith Mark David Mathews</td>
<td>Control and Systems Engineering Department</td>
<td>PHD degree</td>
<td>study leave</td>
<td>NewYork</td>
<td>A</td>
<td>Details</td>
<td>Modify</td>
</tr>
<tr>
<td>2</td>
<td>Alani Muhanad Zuhair Jassim</td>
<td>Laser and Optoelectronics Engineering Department</td>
<td>Master degree</td>
<td>study leave</td>
<td>Moscow</td>
<td>A</td>
<td>Details</td>
<td>Modify</td>
</tr>
<tr>
<td>3</td>
<td>Smith Ashley Bob John</td>
<td>Department of Applied Sciences</td>
<td>PHD degree</td>
<td>fellowship</td>
<td>NewYork</td>
<td>A</td>
<td>Details</td>
<td>Modify</td>
</tr>
</tbody>
</table>
FUNCTION “DELETE” AT MANAGER’S PAGE

Are you sure you want to delete information about this student? You won’t be able to recover it if you click OK.
FUNCTION “ADD STUDENT” AT MANAGER’S PAGE

Select Category: Select Category
Enter First Name:
Enter Third Name:
Select Country: Select Country
Select Degree of the city: Select Degree of City
Studying Years:
Family Members:
Select Gender: Select Gender
Leaving work: mm/dd/yyyy
Extension period start: mm/dd/yyyy
Leaving ticket Fees:
Enter Username:
Select Study Degree: Select Study Degree
Enter Surname:
Enter Second Name:
Work Place: Select Work Place
Select City: Select City
Foreign Language Fees:
Marital Status: Select Marital Status
Enter Age:
Administrative order: mm/dd/yyyy
Starting Study: mm/dd/yyyy
Extension period end: mm/dd/yyyy
Returning ticket fees:
Enter Password:
Save
### Function “Print” at All Pages in System

The image displays a user interface for a scholarship management system. The interface includes a table with the following columns: Select, Number, Name, Category, Study, Country, City, Details, and Modify.

<table>
<thead>
<tr>
<th>Select</th>
<th>Number</th>
<th>Name</th>
<th>Category</th>
<th>Study</th>
<th>Country</th>
<th>City</th>
<th>Details</th>
<th>Modify</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>Smith Mark David Matthews</td>
<td>Control and Systems Engineering Department</td>
<td>PHD degree</td>
<td>scholarship</td>
<td>Egypt</td>
<td>Cairo</td>
<td>Details</td>
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<td>study leave</td>
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<td>Yekaterinburg</td>
<td>Details</td>
</tr>
</tbody>
</table>

In addition, there is a print dialog box open, showing options for selecting printer, print range, and print copies.
Get a report in amount of students

Total amount of students in study leave is: 6

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Category</th>
</tr>
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<tbody>
<tr>
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<td>study leave</td>
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<td>5</td>
<td>Smith Mark David Mathews</td>
<td>study leave</td>
</tr>
<tr>
<td>6</td>
<td>Alhasani Muhammed Fadhel Abbas</td>
<td>study leave</td>
</tr>
</tbody>
</table>

Go Back  print  Sign out
Get a report in gender of students

Total amount of male in study leave is: 2

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Category</th>
<th>Gender</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alari Muhanad Zuhair Jassim</td>
<td>study leave</td>
<td>Male</td>
</tr>
<tr>
<td>2</td>
<td>Alhassani Muhammed Fadhel Abbas</td>
<td>study leave</td>
<td>Male</td>
</tr>
</tbody>
</table>

Go Back  print  Sign out
Get a report in amount of students how will get Master degree

Select Category:  

Total amount of students who will get Master degree in fellowship is 2

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Almayahi Sahar Yahya Salman</td>
<td>fellowship</td>
</tr>
<tr>
<td>2</td>
<td>Almaamory Sabah Abbas Najim</td>
<td>fellowship</td>
</tr>
</tbody>
</table>
CONTACT US INTERFACE

Location
University of Technology
Iraq - Baghdad - P.O. Box (18310)

Contact
Phone: (964) 7801915873
Email: technologyadmin@yahoo.com

Contact Form

Send an Email

* Required field

Name *

Email *

Subject *

Message *

Send copy to yourself

(optional)

Send Email
Results

- The problem of statement is represented. Also, the comparative analysis of analogues and tools for development are described.
- Functional and non-functional requirements are described.
- Use case diagram, Deployment diagram, State machine diagram, database scheme and interfaces are designed.
- The functional testing of the application and the usability testing with list of tasks are represented.