



Faculty of Computers & Artificial Intelligence

**2<sup>nd</sup> Term (2019-2020) Final Exam**

class: 3 year 2<sup>nd</sup> Resit exams تخلفات

Course Code: INF 381

Course name: Systems Analysis and Design



Benha University

Final Date: 7 / 6 /2020

Total Marks: Pass / Fail

Examiner(s): Dr. Khaled M. Fouad

**Research submission: From 31 May to 7 June 2020**

**a) Write a research project in ONE of the following topics:**

### **Topic No. 1**

#### **Automated Attendance System**

An automated attendance system that consists of a web system for an entire organization to record attendance. Each Classroom or department has its login. On login, the class faculty can see a list of students or members registered under it. The faculty may take attendance and mark the present students using the checkbox provided in front of every student's name. This attendance sheet is stored and sent to the central administrator of the organization and stored there. The system has an admin login. The admin may check all attendance data, press a button to see defaulter list, search for particular student attendance by name, search class attendance, and generate excel reports.

### **Topic No. 2**

#### **Blood Bank**

This project acts as an essential role in saving the lives of human beings and which is also its primary aim. The project Android Blood Bank system is developed so that users can view the information about registered blood donors such as name, address, and other such personal information along with their details of blood group and additional medical information of the donor. The project also has a login page wherein the user is required to register and only then can view the availability of blood and May also register to donate blood if he/she wishes to. This project requires internet access, and thus there is a disadvantage of internet failure. Therefore this application helps to select the right donor online instantly using medical details along with the blood group. The main aim of developing this application is to reduce the time to a great extent that is spent in searching for the right donor and the availability of blood required. Thus this application provides the required information in no time and also helps in quicker decision making.

### **Topic No. 3**

#### **Furniture Shopping**

The furniture shopping system is an android application that allows users to check out for various furniture available in the store and can even purchase them online. The system provides a categorized list of furniture products of different styles and models. Users have to log in to the system for browsing each product and can then add them to their cart. After selecting the products, users can make secure online payments via a credit card. Thus the online furniture shopping project brings an entire furniture shop online and makes it easy for both buyer and seller to make furniture deals. Sql serves as a backend to store furniture lists and inventory data. Thus the online furniture shopping project brings an entire furniture shop online and makes it easy for both buyers and sellers to make furniture deals.

**Notes: please, your project must contain the following elements:**

**1. Project Basic Data**

**2. Project Overview**

2.1 Project description

2.2 Project Scope

2.3 Assumptions

2.4 Constraints

**3. Project planning**

3.1 Project life cycle

3.2 Methods, Tools, and techniques.

3.3 Schedule allocation

3.4 Resource allocation

3.5 Budget allocation

3.6 Risk management

**4. System analysis**

4.1 Determining system requirement

4.2 Structuring system requirement

- Process Modeling (Data flow diagram and decision table)
- Data Modeling

**5. System design**

5.1 Designing the human interface

- Designing forms and reports
- Designing interfaces and dialogues

**6. Conclusion**

**7. Reference**

**GOOD LUCK,**

**Examiner(s)**

**Khaled M. Fouad**

**Head of Departement /  
Program Coordinator**