

# **Project Documentation**

## **Arabic short answer content-based questions Computer System**

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Project status: ongoing

## **1. INTRODUCTION**

Teachers always spend much time on manual marking student homework's and exams, also teachers may have no enough time to assess the big number of student' exams, so the need appeared to solve this problem .

short answer Computer System try to help the teachers doing their job .

## **2.REQUIRMENTS:**

Short answer Computer System is a system that correct the questions automatically and give the result immediately .

To start solve this problem we started by search in many resources in the internet which talk about short question answer and we found many techniques available , so we choose simple keyword to build the system .

## **3. SYSTEM ANAYSIS :**

Logically , Short answer Computer System consist of two part :

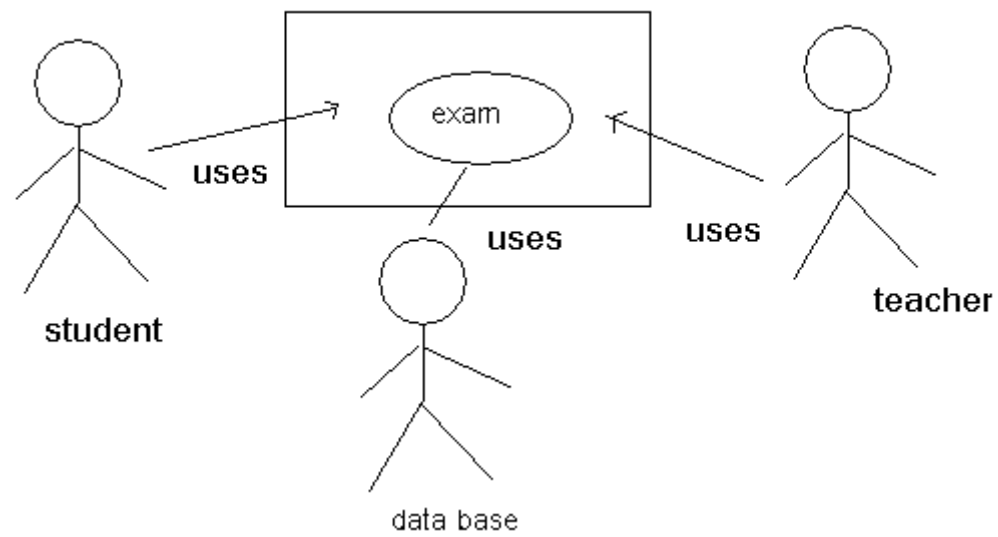
1- teacher part :

In which the teacher make the exam (input questions)

2- student part :

In which the student take the exam (answer the exam questions )

\* System Use Case



\* the teacher make the exam by following these steps:

- a- give the exam name .
- b- input a question in the field
- c- press the button to input some keywords and the value for each one
- d- go to step b if you want add new question else go step e.
- e- exit .

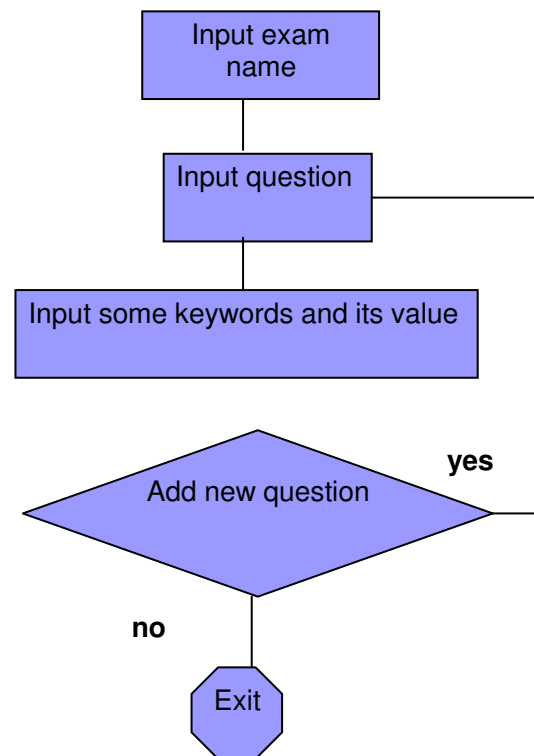
\*the student take the exam by following these steps:

- a- choose the exam name .
- b- input the answer for the specific question
- c- go to step b if you want to answer another question else go step e .
- d- press the result button to show the result .
- e- exit .

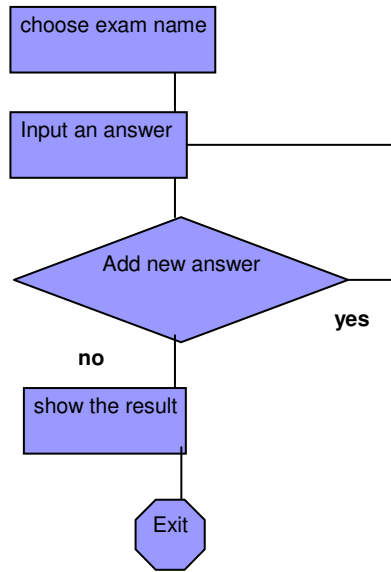
### 3. System Design :

The system developed using Java language and Microsoft access database.

The flowchart of the teacher system:



The flowchart of the student system:



The database contain table for each exam , the table structure of exam is:

Questions	keywords	value

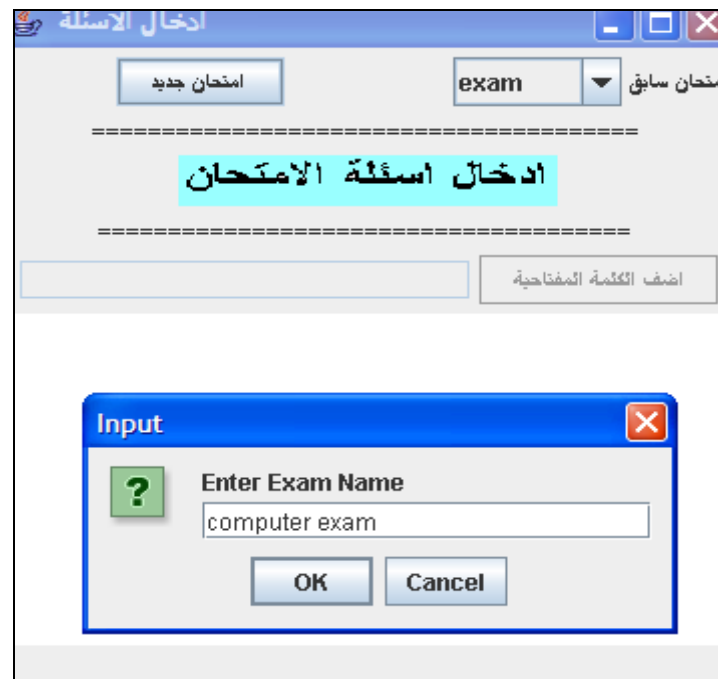
The database contain the following table which show the questions, the keywords and the value for each key of specific question :

Computer exam		
Questions	keywords	value
عرف الشبكات؟	مجموعة	1
عرف الحاسوب؟	جهاز	2
عرف الشبكات؟	اجهزة	1
عرف الشبكات؟	مربوطة	2
ما هي لغات البرمجة ؟	حاسوب	2
ما هو معالج الحاسوب ؟	ينفذ	3
ما هو معالج الحاسوب ؟	الاوامر	2
عرف الحاسوب؟	تطبيق	1
عرف الحاسوب؟	اوامر	1

#### 4.System Implementation:

the first part (teachers) operations we are going to make an exam and to do that we should follow the following steps :

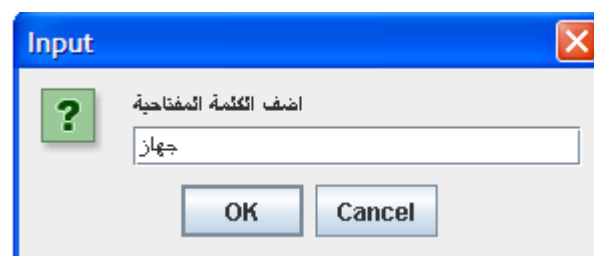
a- press the button " امتحان جديد " (new exam) and input the exam name.



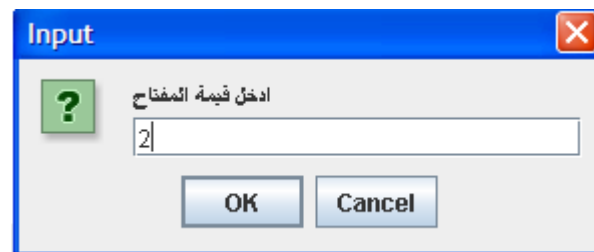
b- input the question in the text field for example : " ما هو الحاسوب? " .



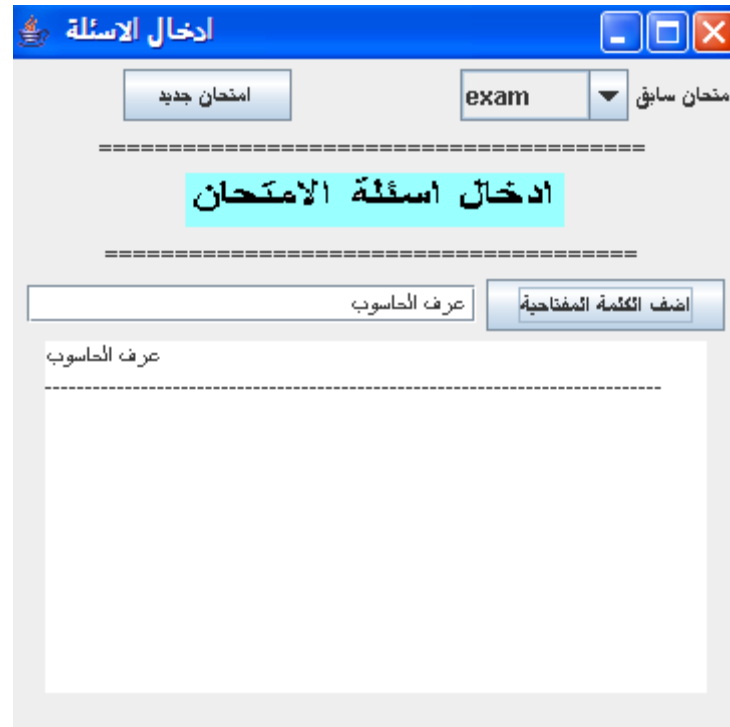
C- press the button " **اضف كلمة مفتاحية** " (add key word) and input keyword for example : " **جهاز** ".



d- input the value of keyword :



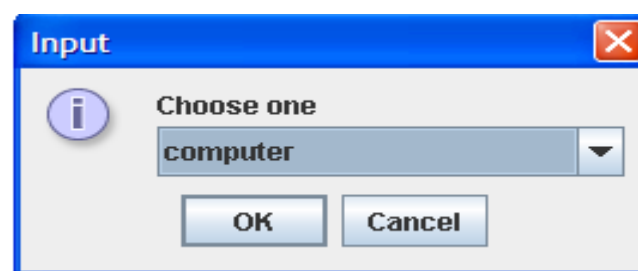
e- the result appear in the screen :



f- repeat the steps until complete all the questions .

To see the second part (students) operations we are going to take an exam and to do that we should follow the following steps :

a – when the program run the message appear to select one of the exist exams .



b- then the exam window appear to the student to start answering the exam .



The image shows a screenshot of a computer exam application window. The window has a blue title bar with the text 'اسئلة الامتحانات' (Exam Questions) and standard Windows window controls (minimize, maximize, close). The main area is light gray and contains two input fields for answers. The first field is labeled '1 عرف الحاسوب؟' (1. Define the computer?). The second field is labeled '2 عرف الذاكرة الرئيسية' (2. Define the main memory). Below the input fields is a button labeled 'النتيجة' (Result).

c- after completing the answers click the result button (النتيجة) to show the result .

To see the output of an exam as an example, the following screen show the result of an computer exam :

اسئلة الامتحانات

1 عرف الحاسوب؟

هو جهاز يقوم على تطبيق اوامر المستخدم

2 عرف الشبكات؟

هي مجموعة من اجهزة الحاسوب

3 ما هو معالج الحاسوب ؟

احد اجزاء الحاسوب و يقوم على تطبيق الاوامر

4 ما هي لغات الترميز ؟

اوامر محجورة تكتب حسب قواعد معينة

النتيجة

Message

i

result=8  
from 15

OK