**FUTURE UNIVERSITY IN EGYPT**

|  |
| --- |
| **logo official COMPUTER** |
|
|
| **Course Name:** Design of Web-Based-Applications | |
| **Course Code:** CS495 | |
| **Instructor:** Awad Hassballah  **TA/** Yousef Samir  **Semester:** Spring 2020-2021 |  |

**FACULTY OF COMPUTERS AND INFORMATION TECHNOLOGY**

**Proposal**

**Topic:** Online Examination System

**Student Names & ID:**

Mohamed Ashraf Mohamed 20183706

Marwan Mohamed Hisham 20184133

Nouran Saeed Zaky 20182666

Omima Mostafa Abdelhamid 20182640

Sarah Hazem Mohamed 20173609

**Table of Contents**

[1. Introduction 3](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088609)

[1.1. Problem definition 3](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088610)

[1.2. Scope 4](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088611)

[1.3. Introduced Solution 5](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088612)

[1.4. Example Scenarios 6](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088613)

[1.5. Requirments 6](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088614)

[1.6. Target enviroment 7](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088615)

[1.7. Deliverables 7](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088616)

[1.8. Deadline 7](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088617)

[1.9. Acceptance Criteria 7](file:///C:\Users\Mohamed%20Ashraf\Downloads\project.docx#_Toc35088618)

1. **Introduction**

When 2019 was heading towards its completion, and everyone was busy planning for their New Year resolutions, then came the unwelcomed pandemic, which is now popular with the name of Covid-19.

By its high blow, the pandemic affected almost every age group and most prominently, the upcoming generation, i.e., Students which nearly involved around 500 million. Everyone thought that the pandemic would last soon but this thought converted into an unsuccessful wish.

The education system all across the world has gone through a paradigm shift, not just in terms of resources and content but also in terms of mode, when the world was entirely under lockdown for almost six months.

Since the rise of the pandemic, teaching moved online and that too at a considerably high degree both in schools and universities worldwide. Now ‘online teaching and examinations’ have become a new normal. In this lockdown, Information Technology has emerged as a superhero.

* 1. **Problem definition**

Firstly, Inaccessibility: not all student can access to the location of the exam and arrive wherever it’s in school or university they can face busy traffic sickness accident or anything which could prevent them to arrive and attend the exam.

Secondly, Low quality : data the exam papers could be exposed and affected by the environment or low quality of printing which cause problems to the student to read the question details and answer it.

Thirdly, Lengthy process : paper examination system consume much time starts from printing the exam papers to distributing it to all halls and classes, collecting it back from students, storing it , correction and revealing of the results.

Fourthly, High cost: paper exams requires involving number of persons which cost money and cost of printing instead online examination systems can save up to 50%.

Fifthly, Non eco-friendly: exam papers are wasted in traditional process which harms the environment and goes against ‘green’ university wide goals.

Finally, Due to the covid-19 pandemic most of students worldwide cannot go to their universities or school and attend their exams or interact with anybody so there must be a solution the world cannot continue without education.

* 1. **Scope**
* Online-Exam-System designed for Educational Institutes (like Schools, universities, training centers).
* The system handles all the operations, and generates reports as soon as the test is finish, that includes name, mark, time spent to solve the exam.
  1. **Introduced solutions**

Online examination system allow students to perform their exams and continue their educational process.

This online system must include all of the following requirements:

* Enables the Admin to create subjects for the students to choose which subject to take its exam.
* Make the Admin able to create Tests and exams for the students to perform.
* Allow the student to create an account on the exam system associated with their id’s.
* Enables the Admin to create the content of the exams which is the Questions.
* Enables the Admin to manage exam results.
* Ensures timing of exam.
* Software checks if exams are marked correctly.
* Students can check their marks online.
* Student can submit his complain or objection about timing, correction or anything.
* Database to store student previous grades.

**Administrator:** The administrator creates the exams and collects all the results after successful completion of the examination and then sends to the registrar.

**Student:** The student will login to the software and take his examination. He can also check his previous examinations marks and his details. He will get result immediately after the completion of the examination.

* 1. **Example scenarios**
     1. The student enters his correct id and password to log in to the system and start his exam.
     2. If the student enters wrong username or password a text appears “incorrect username or password try again”.
     3. The student find his desired exam and click start attempt button and the quiz opens at new window.
     4. The student can submit a complain to be reviewed if he faced any problems during the exam.
     5. The student clicks review button to review his exam answers and review the model answers.
     6. After the student click submit and finish button the system calculate the correct answers and show the grade.
     7. The system shall save all of student marks in all exams and tests to calculate the final grade for him and make him available to review always his previous marks to know his educational level and what he needs in the future.

# **Requirements**

* **Online examination system software contains types of users:**
* Administrator
* Student

The database of the system store info of all users who interact with the system.

* **Store the data of the students:**

Their name, id number, phone number, address, e-mail, faculty name and faculty level stores in database in system.

* **Alerts in the system:**

Notify students about examination dates and when exams are corrected and marks are available to view.

* **Preview exams:**

The student can preview the exam before it start (how many questions, start time, end time).

* **Search in the system:**

Website contain internal search engine which support that allow student to search for the exams of certain course.

* **Attendance confirmation:**

Student gets his attendance in the exam once he click start exam.

* **System supports finishing the exam even if there is remaining time once the student finish and decide he will not do any adjustments.**

# **Target environment**

Work on different OS e.g. windows and Linux.

# **Deliverables**

* Proposal.
* Implementation.
* Test document.
  1. **Deadlines**

All deliverables will be delivered on 20-8-2021 at 12:00 AM

* 1. **Acceptance Criteria**
* The project online examination system is accepted if at least the following success criteria are satisfied.
* The project executable is available on (Date) and approved the functional requirements specified in previous sections.