

**FACULTY OF COMPUTING AND INFORMATION MANAGEMENT**

**BACHELOR OF INFORMATION SECURITY AND FORENSICS**

**UNIT: BISF 2208**

**PROJECT TITLE: ONLINE IQ TEST MANAGEMENT SYSTEM**

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DECLARATION

I Munene John declare that this Online IQ test management system project proposal is my original work and it has never been submitted to any institution of higher learning for any award. I declare that all information cited in this report has been fully acknowledged.

Name .....................................................................

Signature ...............................................................

Date .......................................................................

**Table of Contents**

[1. Background 4](#_Toc296562579)

[2. Problem statement 4](#_Toc1208953631)

[3. Proposed Solution 4](#_Toc1730986150)

[4. Objectives 5](#_Toc976576177)

*[Main Objectives](#_Toc1911276956)* [5](#_Toc1911276956)

*[Other Objectives](#_Toc1669684777)* [5](#_Toc1669684777)

[4.1 Literature Review 5](#_Toc1980698044)

[5. Methodology 6](#_Toc255090693)

[5.1 Research Design 6](#_Toc1045115899)

[5.2 Research Methodology 6](#_Toc535081128)

[5.2.1 Requirements 6](#_Toc820103295)

[5.2.2 Design 6](#_Toc310841741)

[5.2.3 Development and Coding 6](#_Toc1602076382)

[5.2.4 Integration and Testing 7](#_Toc1956799980)

[5.2.5 Implementation and Deployment 7](#_Toc797999774)

[5.2.6 Review 7](#_Toc85085091)

[6. Budget and resources 7](#_Toc1708415480)

[7. Project schedule 7](#_Toc900449409)

# Background

In developing and growing of industries and companies, the employment rate have really increased in various fields such as IT Organizations. This has led to conducting of very many interviews inorder to employ the most efficient interviewees for the job opportunities.

For example, Microsoft has over 200, 000 employees, which is a positive impact to the economy. In such big organisations it becomes very difficult to interview all these applicants for various job opportunities. As a result of many applicants turning up for the interview, it has become a vital problem in this old way of applicants quing waiting for their time to meet the interviewing panel. These outdated of way of carrying out interviews comes with alot of problems and disadvantages in these Covid-19 pandemic times.

# Problem statement

Due to the increased number of applicants turning up for the interviews with this old way of conducting interviews, many problems arise which affect the business negatively in different ways. Some of them include:

1. Time wastage - This is seen when the panel has to interview one person after

the other, in such a case it would alot of time.

1. Overcrowding - Where there are so many people will lead to the spread of Covid-19.
2. Cost - For interviews to be carried, some companies even out source interviewing panel, this is can be very expensive to the company.

# Proposed Solution

The best solution that can solve this problem is designing and implementing a system that will address the following:

Designing a system that will enable the admin/organisation to set questions that will be done by the interviewees.

If the applicant gets the set passmark will qualify for the next step of the interview thus reducing chances of employing less efficient interviewee.

The system will have organized database that will store applicant’s quiz grade in an orderly manner thus this will save time in retrieving data whenever necessary.

The system will allow organisation to set questions with admin previleges that will relate with the job opportunities.

# Objectives

## *Main Objectives*

1. Manage and monitor the number of people taking the quizzes.
2. Proper and neat conduction of interviews since only people who meet the set marks are the only ones who should turn up for interview.
3. Creating a centralised database to store both applicant’s details and grades attained by each applicant.
4. Information backup incase of any bad occurences to ensure no data loss.

## *Other Objectives*

1. Time is saved on the registration of new applicants as the panel know what kind of people to expect. i.e expected IQ level.
2. Easy retrieval of data of the applicant.

## Literature Review

This project Online IQ Test Management System is a computerized test system which I am developing to replace and or run with the manual/old system which is an outdated way of carrying out interviews which is still being used in various organizations across the country.

My study is based around some companies in Kenya. With the rapid growth of organizations and industries, it has lead to increased employment rate. This means more companies more employees needed. These organisations include:

**Manam LTD** - This is an IT company located in Westlands, Nairobi. I have worked there for a period of three months. It is a small managed IT company but they are growing very fast and they add three employees every month. The number of applicants that turn up for the interview are more than thirty. Before getting the best applicant of them all takes alot of time. With implementation of this system it will result the company to stand a chance to interview people of the IQ of their desire. This practice will maximise the business profits since there is reduced human error.

# Methodology

## Research Design

In research, there is variety of data collection techniques. Here are some of the techniques I have adopted for my project:

*Observation*

This refers to a technique where analysts either participate in or watches a person performing the activities about the interviews. I actively took part looking at how applicants were being interviewed in the company I was working in. This interviews took long than the time our boss expected.

*Interviews*

This method involves verbal stimuli and reply in response. This is good as it involves one on one interrogation. I was able to hold interviews with the person in charge of interviewing people.. The response I got from them is that the team was having very difficult time to interview them since some of them didn’t have the expected qualifications but still turned up for the interviews.

## Research Methodology

The research methodology most suitable to design this system is agile. Agile has simple

steps followed to ensure the successful design of the system:

### Requirements

This is where initial documentation that will list the initial requirements is made. Some of them include features that the system will support and those that it won’t support and also the end result that will be achieved by the system

### Design

This is where we deal with visual and architectural design of the system. For this project, visual basic.net will be used in coding. This is where we also design a user interface.

### Development and Coding

This is the phase where we write the software source code and we convert design documentation into the actual software in the system development life cycle.

### Integration and Testing

After coding, the software will run to ensure no bug and tests will be run to ensure that it works as intended.

### Implementation and Deployment

The system developed is given to users and customers either for test or actual use. Updates may be done and addition of some other features

### Review

Once all the phases are completed, review is done to check the progress made towards completing the requirements

# Budget and resources

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Cost** |
|  | Proposal Development. | Kshs. 500 |
|  | Software Documentation | Kshs. 700 |
|  | Algorithm Paper work | Kshs. 250 |
|  | Testing and Evaluation. | Kshs. 650 |

# Project schedule

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Task  No. | Description | Task  No.  of  days | Subtask  No. of  days | Planned  Start  Date | Actual  Start  Date | Planned  Completion  Date | Actual  Completion  date | Deliverables |
|  | Proposal writing | 5 | 0 | 27/09 | 29/09 | 01/10 | 01/10 | Project proposal |
|  | Designing specifications | 6 | 2 | 06/10 | 06/10 | 11/10 | 11/10 | SRS |
|  | Design | 10 | 2 | 12/10 | 12/10 | 21/10 | 21/10 | SDS |
|  | Coding | 10 | 3 | 22/10 | 23/10 | 01/10 | 01/10 | Code |
|  | Testing | 2 | 1 | 02/11 | 02/11 | 03/11 | 03/11 | Testing plan |
|  | Deployment | 1 | 0 | 04/11 | 04/11 | 04/11 | 04/11 | Deployment status |
|  | Review | 2 | 1 | 05/11 | 06/11 | 08/11 | 08/11 | Tracking |

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