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| Online Quiz Application |
| Project Vision Document | |
| **Version 0.2** | |
| 10/2/2022 | |

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# Introduction

## Purpose

The purpose of this document is to collect, analyze, and define the needs and features of the Online Quiz Application. It focuses on how the application will address the needs and requirements of the key stakeholders i.e., the Business and its targeted users.

## Scope

This vision document applies to the Online Quiz Application, which will be developed by the GBC’s Computer Programming and Analysis Students. The Online Quiz Application will be developed as a Web Based Application (WBA).

### In Scope

* This project will develop a web-based application where quizzes can be created and taken
* The application will be hosted by Team 20, not the end user, and will be accessed through a web browser

### Out of Scope

* End users will be required to create the questions for the quizzes
* End users will be responsible for determining how to best integrate the Online Quiz Application into their curriculum

## Definitions, Acronyms, and Abbreviations

This section explains all of the terms and abbreviations that are being used in this document, for those who are unfamiliar with them. Not everybody who reads this document will understand all of the terms, so this section is helpful.

|  |  |
| --- | --- |
| Term | Explanation |
| QWA | Quiz Web Application |
| PVD | Project Vision Document |
| WBA | Web Based Application |
| GBC | George Brown College |

## References

| Reference File Name | Version | Description |
| --- | --- | --- |
|  |  |  |

This section also contains links to all other places that were referred to in this document. These may include:

* Web sites
* URLs or network locations
* Research done for similar products

|  |  |
| --- | --- |
| Name | Link |
| RUP Vision Document | <https://personal.utdallas.edu/~chung/SYSM6309/vision-doc-UTDCS-17-04.pdf> |
| Vision Document | <https://en.wikipedia.org/wiki/Vision_document> |
| SWOT (Strengths, Weaknesses, Opportunities, Threats) Analysis | <https://www.businessballs.com/strategy-innovation/swot-analysis/> |
| In Scope vs. Out of Scope meaning with Examples | <https://www.indeed.com/hire/c/info/out-of-scope> |

# Positioning

## Business Opportunity

Making life easier and bringing necessary improvements and developments in every aspect of life is the main goal of human beings – Online Quiz Application makes it easy and possible for instructors to conduct quizzes in situations were taking and organizing in-person quizzes is a challenge or impossible. Furthermore, the Online Quiz Application is a time saver for both students and teachers as students do not need to take the burden of travel and its associated costs and teachers do not have to spend enormous time validating questions.

## Problem Statement

|  |  |
| --- | --- |
| The Problem of | Creating, taking, and grading in-person quizzes |
| affects | Instructors and Students |
| the impact of which is | Significant time spent completing repetitive work |
| a successful solution would be | An easy to use, web-based quiz taking application. This product would provide a platform for instructors to create quizzes for their students. The quizzes can be completed remotely and will be graded automatically, saving instructor time in and out of the classroom. Students will receive instant results and can view marks from previous quizzes allowing them to better track their grades. |

Table 1 Problem Statement

## Product Position Statement

|  |  |
| --- | --- |
| For | Educational institutions and instructors |
| Who | Want to save time when delivering quizzes to their students while providing the students with a better testing experience |
| The Online Quiz Application | Is a web-based application |
| That | Provides an online platform for easily creating and delivering quizzes |
| Unlike | In-person quizzes that require all students to be present at the same time and location, and for an instructor to manually mark each quiz |
| Our product | Saves instructors time and allows them to easily distribute and mark quizzes for many students through an online web application. Taking quizzes on our application is also more convenient for students and gives more class time for instruction to teachers. |

Table 2 Product Position Statement

## SWOT Analysis

|  |  |
| --- | --- |
| Strengths | Weaknesses |
| Results can be obtained faster | No internet – No access |
| User friendly | No computer device – no access |
| Online quizzes can reduce students’ stress |  |
| **Opportunities** | **Threats** |
| Quizzes for all skill levels | Other web-based quiz services |
| Reduce validation time | Fee charges |
| Cover large number of students all at once. |  |

# Stakeholder and User Descriptions

The target user of the Online Quiz Application is educational institutions’ students. Users expect the following key problems they anticipate be addressed with this application:

* Reduce travel time to and from quiz Centre and save travel costs
* Have results of their quiz faster
* Easy App to use

It is expected that the above problems will be resolved with the Online Quiz Web Application.

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **Stakeholders Name** | **Represents** | **Role** |
| Software Developers. | This is a stakeholder that leads the develops the final deliverable. | They create the design and build the program for the primary end users to use. They must ensure that the application is easy to use and understand. |
| Investors | This is a stakeholder that funds the project. | They invest/ provide money to the developers that create web applications. |
| Marketers | This is a stakeholder that markets web applications to the school districts. | They must create an effective marketing strategy that will attract or convince the schools to use the application. |

Table 3 Stakeholder Summary

## User Summary

| User Name | Description | Responsibilities | Stakeholder |
| --- | --- | --- | --- |
| Instructors | Primary end users of the system. | They use the application to create the quiz for their students. They are responsible for making a user profile account so that they can make the quizzes for students to take. This allows them to write the questions for the quiz. They need to understand and be familiar with the application so that they can easily explain how to use the tool to their students. | Self |
| Students | End users of the system. | They use the program to take the quiz. They are responsible for making a user profile account so that they can take the quiz. This allows them to answer the questions their teacher has created within the time limit. They are also responsible for knowing and understanding how to use the application so they can avoid errors while taking the quiz. | Self |
| Institutions | End users of the system | They are responsible for making the decision to implement the web application in their curriculum. | Self |

Table 4 User Summary

# Stakeholder Requirements

| ID | Requirement | Stakeholder |
| --- | --- | --- |
| SR01 | Quizzes must be easy to create and able to be saved so that can be delivered again in the future | Teachers |
| SR02 | Users must have a profile where they can view past grades and upcoming quizzes | Students |
| SR03 | Interface and design that is attractive to all ages of schoolchildren | Marketers |
| SR04 | Users must be able to complete quizzes through an intuitive interface | Students |
| SR05 | Student grades must be able to be exported in a readable format so they can be included in a student’s overall assessment | Teachers, institutions |

Table 5 Stakeholder Requirements

# System Features

| ID | Feature | Stakeholder Requirement ID |
| --- | --- | --- |
| SF01.1 – Quiz Creation | Instructors can create quizzes with a variety of customization options, e.g., time, number of questions and question format | SR01 |
| SF01.2 – Quiz Saving | Instructors can save quizzes they have created to their account so they can deliver the quiz again to different students in the future | SR01 |
| SF02.1 –Grade View | Students can view the average and individual scores of the quizzes they have taken in each of their classes | SR02 |
| SF02.2 – Schedule View | Students can view any upcoming quizzes that their instructor has scheduled | SR02 |
| SF04.1 – Join Quiz | Students can join quizzes by entering a unique code or from their profile, depending on the preference of their instructor | SR04 |
| SF05.1 – Grade Export | Instructors an institution can export grades in a CSV or a readable format | SR05 |

Table 6 System Features

# Assumptions

* Developers might not finish the application within the time frame
* The budget might not be enough, so investors are willing to put more for the project/application
* Teacher may not want to use the application and continue using paper for their quizzes.
* Student might not have access to a desktop or have a fast reliable internet.
* It is assumed that the end user of Online Quiz Application has access to a computer device and internet to use this application

# Constraints

**Usability:** Intuitive and easy to use for teachers and students.

**Responsiveness:**  Provides instant results.

**Capacity:** Can choose how many students can take the quiz.

**Time:** Set a certain time limit to take the quiz.

Availability of existing and similar online quiz applications in the market and competing with them could be one of the main constraints.

End users’ access to computer devices and the internet to use Online Quiz applications could be counted as an external constraint.