A Minor Project-1 Report on

**Hamro Quiz**

Submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Software Engineering at Pokhara University

***By***

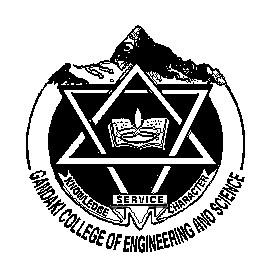
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**(November 2022)**

# BONAFIDE CERTIFICATE

This is to certify that this project titled **Hamro Quiz** in partial fulfillment of the requirements for the degree of BACHELOR OF ENGINEERING IN SOFTWARE ENGINEERING is a bona fide work of **Suman Tiwari, Pramod Gurung,** and **Kismat Bahadur Chhetri** under the supervision of **Er. Bikash Bhattarai**. It is further certified that this work doesn’t form part of any other project work on the basis of which a degree or award was conferred on any earlier occasion on this by any other candidate.

**Date of Evaluation**: November 13, 2022

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Lastly, we are over helmed in all humbleness and gratefulness to acknowledge our depth to all those who have helped us to put these ideas, well above the level of simplicity and into something concrete.

# ABSTRACT

The Quiz application named “Hamro Quiz” is developed to overcome the time-consuming problem of manual system. Apart from that in current system, checking the answer sheets after taking quiz, waste the examiners time, so this application will check the correct answer and save time and carry the quiz in an effective manner.

The aim of this project is to computerized the existing manual system and help the examiner to save their valuable time and important data. This project helps the examiner to manage their service in a good way and provide a better service to the users. This web-based application will help different aged group people to increase their knowledge and ability to tackle different scenario’s question in real time. The performance of the application will be fully controlled by Admin. User can see their result after submitting. In this quiz app users can switch between different categories of questions categorized by admin.

# Chapter 1

# Introduction

## 1.1 Background

“Hamro Quiz” is a web-based application with general questions about current affairs and computers. It has multiple choice questions with a time limit and it also calculates scores for each correct answer. It is good for students of every age group it helps in increasing general knowledge about the world, sports, and computers. The application helps the user to increase his or her knowledge.

## 1.2 Problem Statement

The old system of having quizzes was paper-based and was not dynamic. Once the question was printed on the paper, we are unable to quickly change or modify the quiz system. It was unreliable, inaccurate, and more time-consuming.

## 1.3 Objectives

The main objectives of this web-based quiz application named “Hamro Quiz” is:

* To reduce manual efforts.
* To create an appropriate platform for best managing of MCQ test.

## 1.4 Implication

The implications of these application are given below

* This application is mostly used in schools, colleges across many quiz contests and also used in online examination system.
* It can offer many advantages to teachers and students to use such system as well as to meet the needs in the field of education.
* It can also make teaching and learning more fun.
* It can be used on Online testing.

# Chapter 2

# Literature Review

* (Xue, 2006), adapted the online examination system using a mode known as "B/W Mode". Web server was used to control the tests and provide information to students. The main goal of the study is to reduce the use of paper and develop a test system that is safe to use. Among the features utilized was only allow the system to be used after receiving the application from student to use it.
* (Perugia), 2008)studied on e-learning in courses at the University of Perugia, known as e-stadium. The study consisted of two stages, through student’s application for online tests or tests that are made directly to students. The study took two years with four semester examinations to graduate students in computer science. Their study focused on the effectiveness of the system used to students. And students are more satisfied in this process.

On Comparing our project with other similar application, we come to conclude with following.

|  |  |  |  |
| --- | --- | --- | --- |
| **Features** | **Quiz Faber** | **Easy Test Maker** | **Hamro Quiz** |
| **Better User interface** | NO | NO | YES |
| **Login System** | NO | YES | YES |
| **More informative** | YES | NO | YES |

# Chapter 3

# Methodology and Tools

### 3.1 Sequence Diagram:

Fig: Sequence Diagram of Hamro Quiz

### 3.2 ER Diagram:

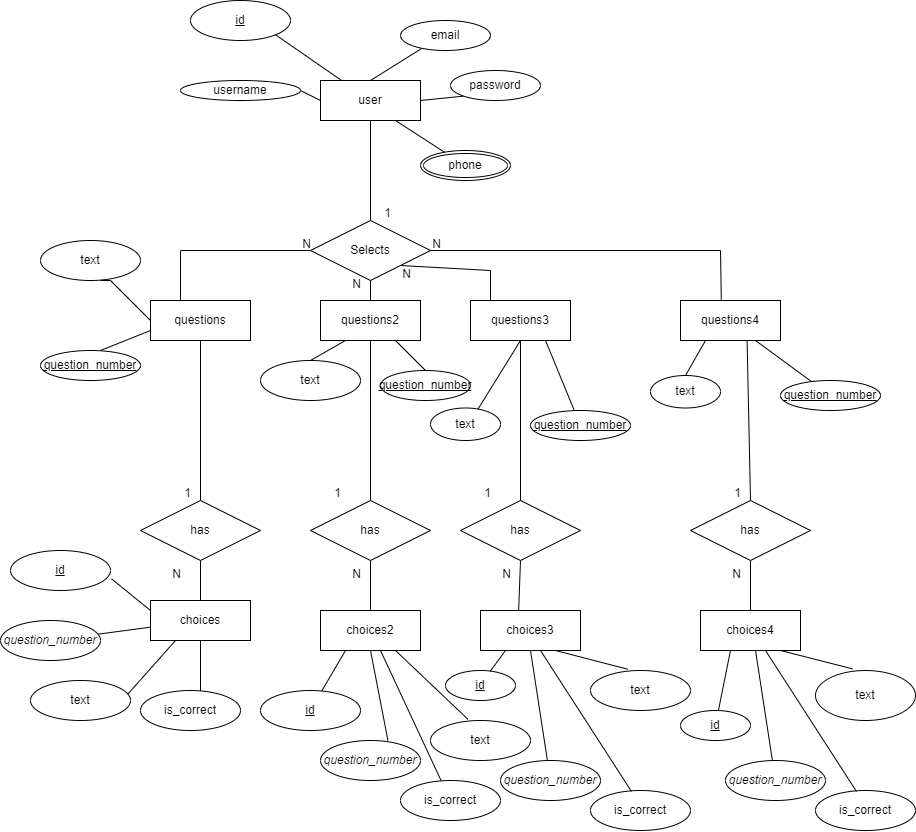


Fig: ER Diagram of Hamro Quiz

3.3 Use Case Diagram:

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Fig: Use Case Diagram of Hamro Quiz

This Use Case diagram describes the interaction between the system and its actor. Here there are two actors named “participant” and “system”. The participant registers its information in the system and it then logins to the system which is authenticated by the system, the quiz master also prepares questions for the participant feeds the question in the system and the system manages questions according to the preference of the user and also delivers score and report for the quiz.

### 3.4 Tools Used in this project:

* HTML, CSS, JavaScript, PHP and MySQL
* Sublime text as Text editor
* Bootstrap

# Chapter 4

# Findings, Results, and Analysis

## 4.1 Software Testing

Software testing is a process to evaluate the functionality of a software application with an intent to find whether the developed software met the specified requirements or not. It also identifies the defects to ensure that the product is defect-free in order to produce a quality product.

## 4.2 Test Objectives

The main objectives of testing Hamro Quiz were to:

* Check whether the web application is as per the requirements or not.
* Ensure defects get a fix from the developers before deployment.
* Gain confidence in the level of quality of the system.

## 4.3 Test Results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.N. | TEST CASES | EXPECTED | OBSERVED | RESULT |
| 1. | Authentication for admin | A specific email with its respective password should be used | Only specific emails with its respective correct password are logged in | Ok |
| 2. | Choose specific Topics in Quiz | - User can choose a specific topic to play quiz | - Choosen topics are abled to play | Ok |
| 3. | Timer and Scoring | - Timer of 15 seconds for each question and score displayed at the end of the quiz | - The timer works perfectly for each question and scoring is observed at the end of the game | Ok |

Table 4.1: Test Cases

## 4.4 Expected Output

* Web-based application.
* The main goal of this web-based application is to enable user to practice for subjective tests.

## 4.5 Future Improvements

* Optimization of the system.
* Addition of new features and functionalities.

## 4.6 Limitations

* Internet access is required
* Technical person is needed to manage the system

# Chapter 5

# Conclusion

“Hamro Quiz” is a web-based application with general questions about current affairs and computers. It has multiple choice questions with a time limit and it also calculates scores for each correct answer. This web application provides a platform for check the general and basic knowledge. Admin can manage data of system. Users as a guest and participate the Quiz and test their skills.

# Bibliography

Academia.edu. (n.d.). *Academia.edu*. Retrieved from Academia.edu: Academia.edu

Advance Informatics School, K. L. (n.d.). *researchgate.net*. Retrieved from researchgate.net: researchgate.net

codeincodeblocks.com. (n.d.). *codeincodeblocks.com*. Retrieved from codeincodeblocks.com: codeincodeblocks.com

javapoint.com. (n.d.). *javapoint.com*. Retrieved from javapoint.com: javapoint.com

Oracle. (n.d.). *docs.Oracle.com*. Retrieved from docs.Oracle.com: docs.Oracle.com

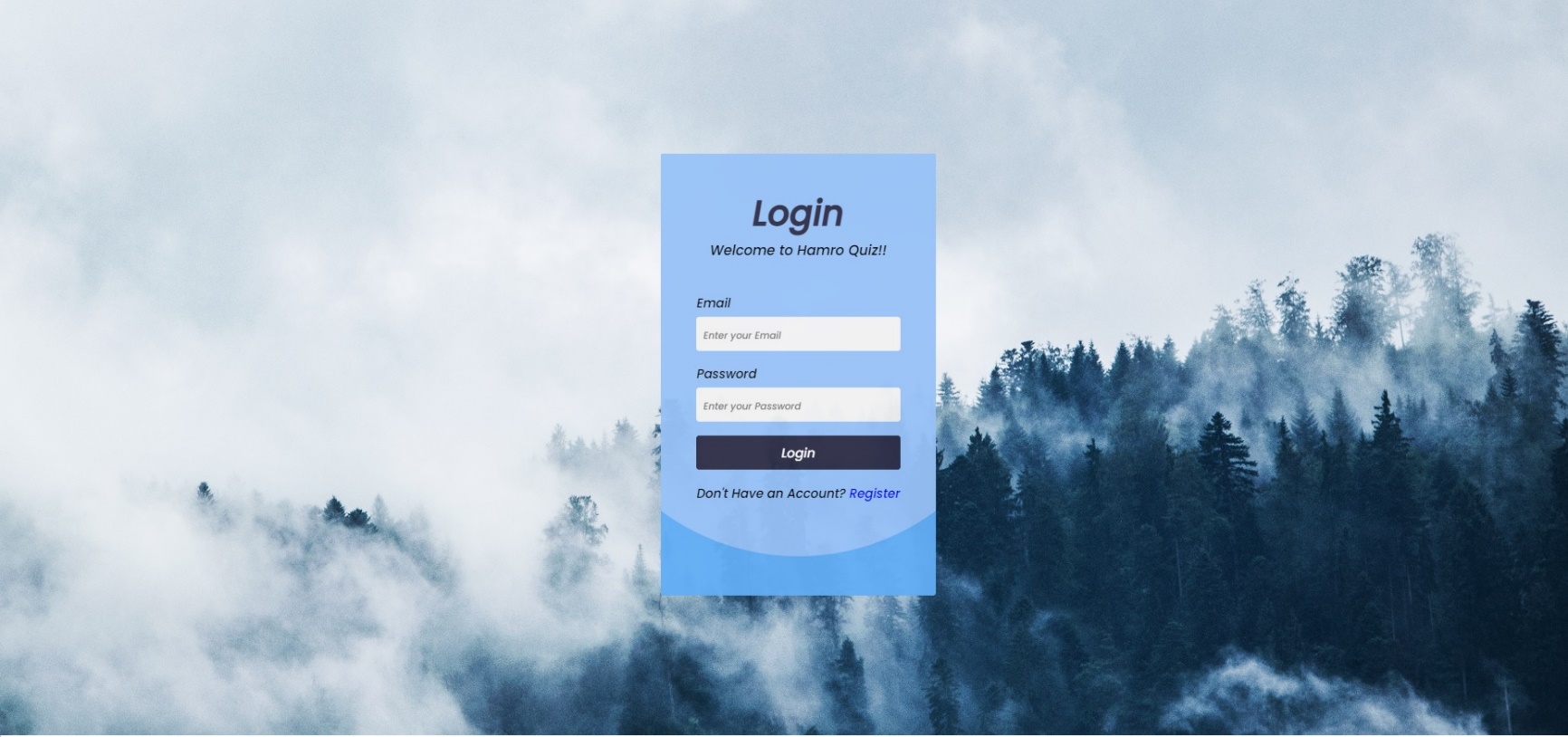
Perugia), J. (. (2008). *researchgate.net*. Retrieved from researchgate.net: researchgate.net

tuotorialspoints.com. (n.d.). *tuotorialspoints.com*. Retrieved from tuotorialspoints.com: tuotorialspoints.com

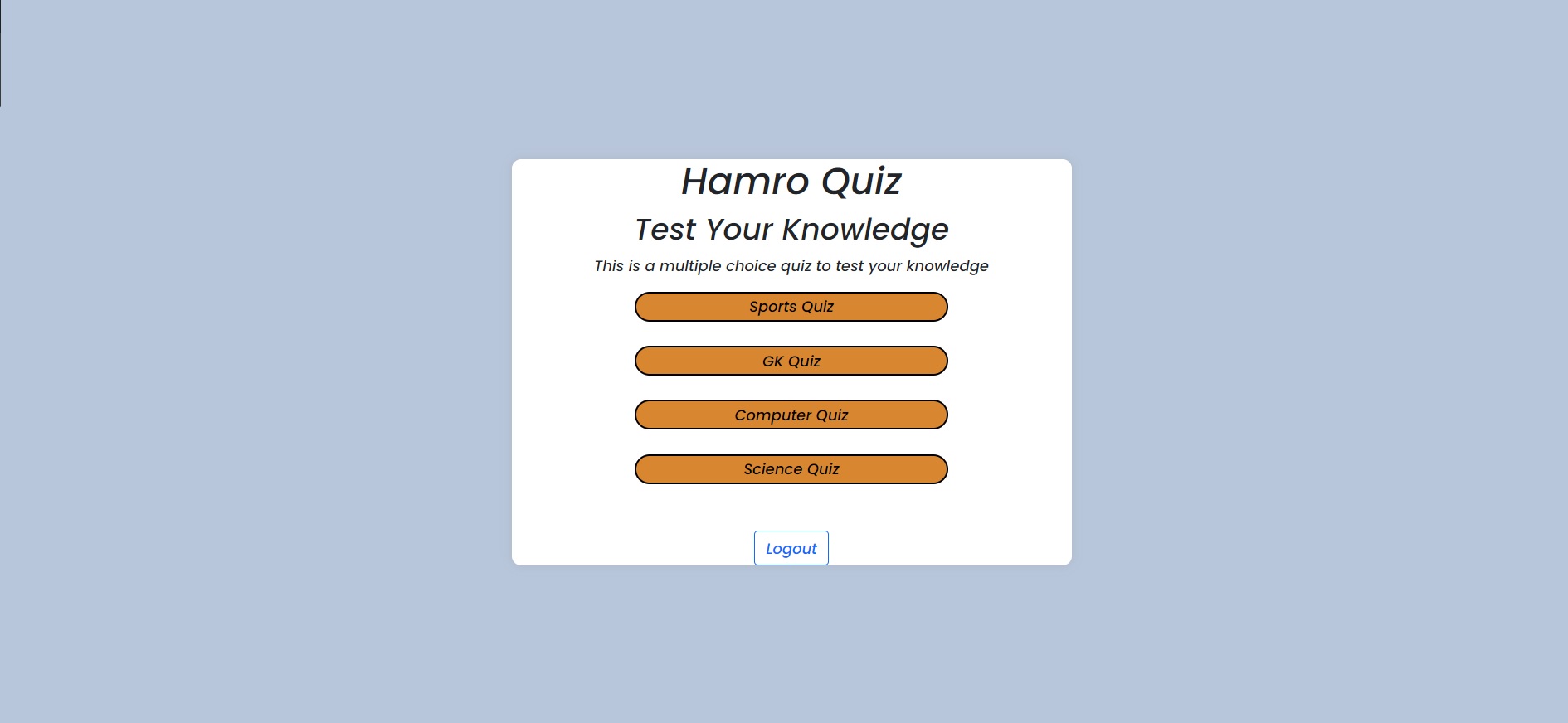
tutorialpoints.com. (n.d.). *tutorialpoints.com*. Retrieved from tutorialpoints.com: tutorialpoints.com

Xue. (2006). *researchgate.net*. Retrieved from researchgate.net: researchgate.net

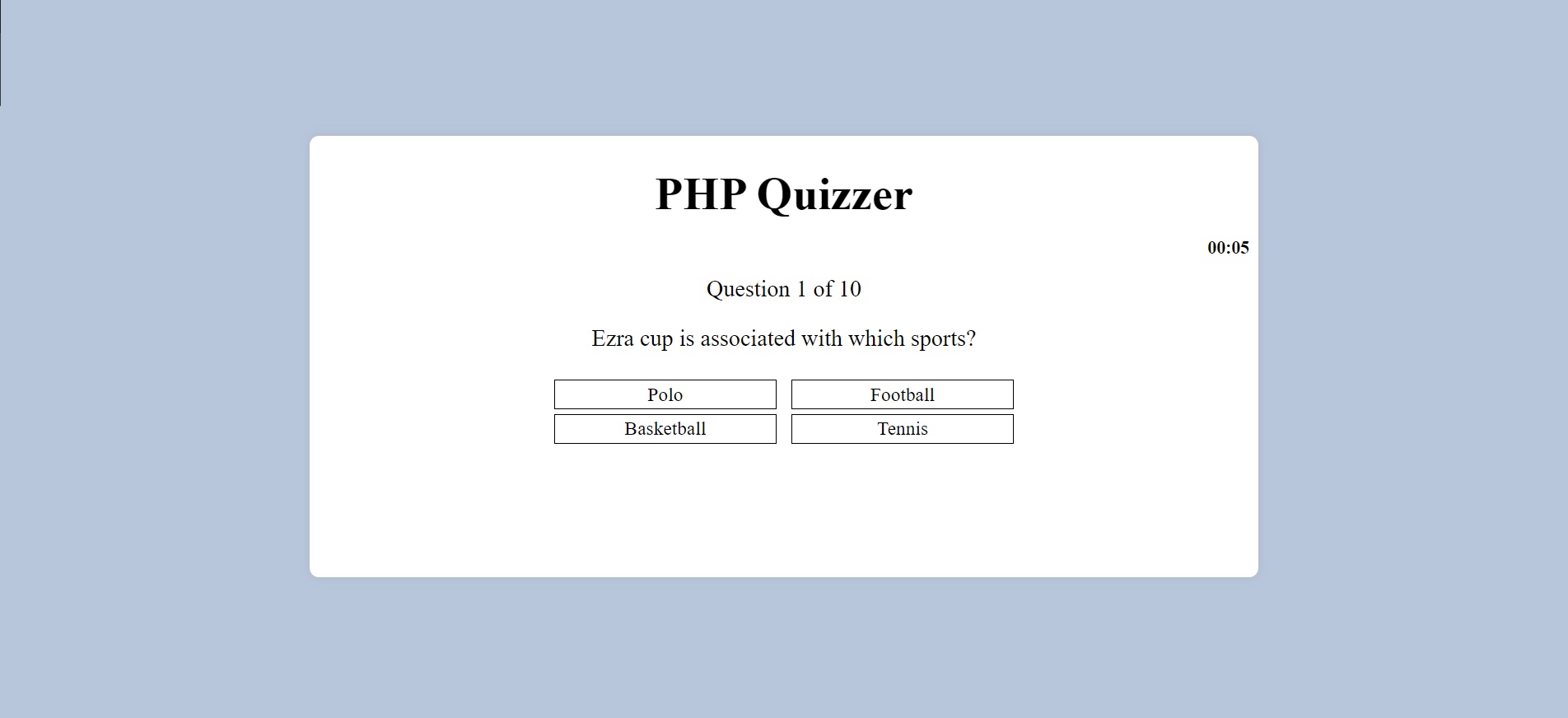
# Appendices



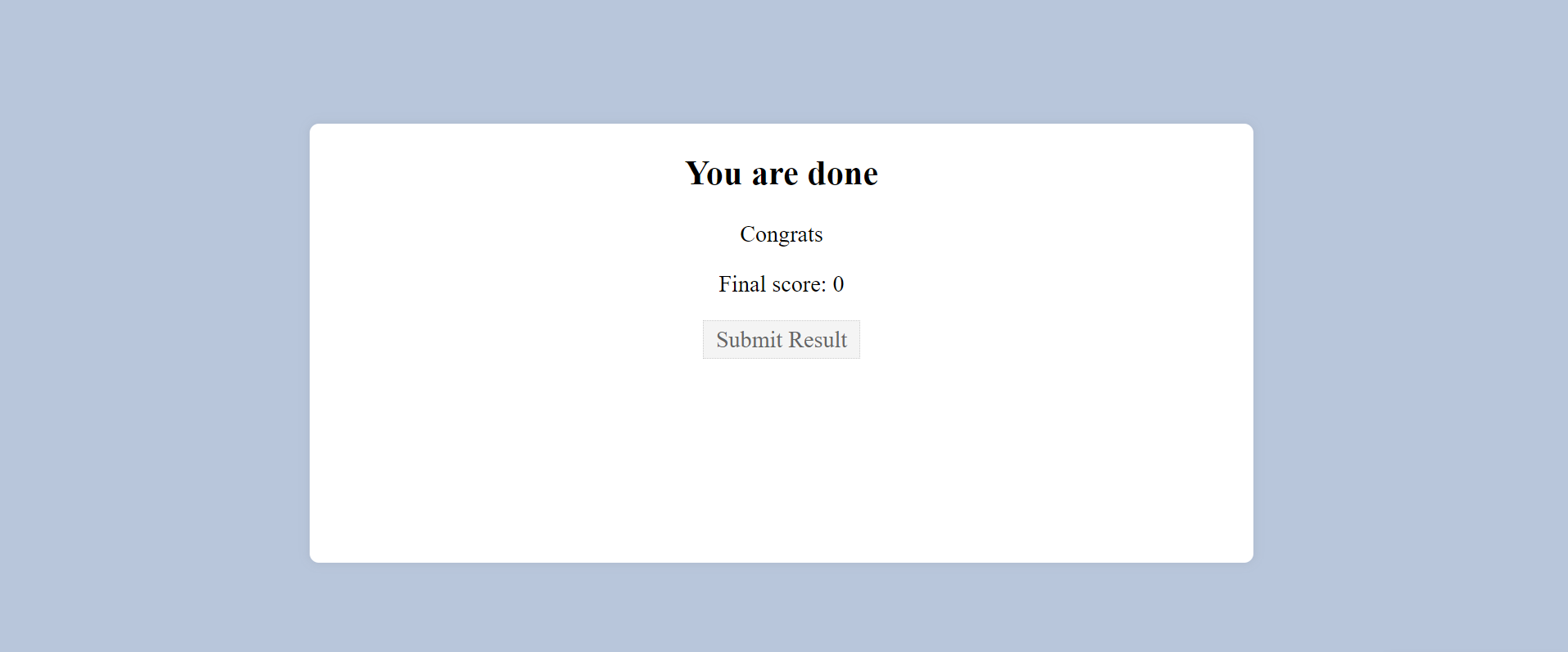
Appendice 1

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Appendice 2

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Appendice 3

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TAKE AGAIN

Appendice 4