

CMPG 213 Group 1 Assignment

# The Quiddle

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## **Introduction**

In a world where traditional education methods often struggle to captivate students' attention and foster genuine engagement, innovative approaches to learning have become increasingly imperative. Enter "The Quiddle" – a groundbreaking educational platform designed to revolutionize the way students interact with their study materials. By seamlessly integrating the excitement of gaming with effective learning strategies, "The Quiddle" offers a dynamic and immersive experience aimed at learners of all ages and academic levels. Through its captivating gameplay and interactive challenges, this platform aims to not only enhance academic performance but also instil a lifelong love for learning. Join us as we delve into the transformative potential of "The Quiddle" and explore how it is reshaping the landscape of education one quiz, riddle, and joke at a time.

## **Background Information**

Through The Quiddle, we plan to significantly alter the way in which students take on their course materials. It puts forth the concept of mixing the gaming component with capable techniques of learning to create an appealing and productive mode of learning. The game is meant for students having very variable ages and levels of education who want to improve their learning and they want a game-free way of working on or studying the material. By means of participatory practice and test of knowledge, the game will aim to enhance the player and student's memory, logical thinking abilities, and subject understanding. They will have an in-depth grasp of the test material after working on the tests and quizzes, won't take it seriously, and will just be trying to make themselves laugh by solving the jokes and the riddles. The game involves quests on different subjects, for example, mathematics, physics, biology, riddles, and some humour. By allowing the players to decide the topics they are to learn, it becomes possible to tailor the learning experiences. Moreover, the players will be presented with a series of choices and there, one option can be selected for all the questions. This is in addition to the point system, through which players can track their advancement. The developers are using the latest techniques and interactive features to create a simulation that is fun for many people. The game provides an innovative and useful tool for students who want to improve their grades and avail themselves of the benefits associated with learning.

## **Problem Statement**

Many students face difficulties in learning effectively and engagingly, which leads to a lack of motivation leading to lower academic achievement. Traditional study methods often lack interactivity and fail to capture student's interest, resulting in disengagement and frustration. To respond to these challenges, it is necessary to find a solution combining the enjoyment of gaming with effective learning strategies to produce an exciting and efficient educational experience. This solution should cater to diverse learning styles and academic levels, providing customizable options for students to focus on specific subjects. By addressing these issues, students can enhance their motivation to study. Which will lead to improved academic outcomes and a more enjoyable learning experience.

# **Research Aim and Objective**

## **Aim:**

The Quiddle is designed to make studying fun by tapping into the popularity of gaming. It uses elements like achievements, challenges, and exploration to encourage engagement. Blending material with gameplay makes complex ideas easier to grasp, helping with understanding. The game encourages thinking and solving problems through learning that caters to individual interests and abilities. It includes systems for progress and rewards to motivate players to set goals and track their advancement boosting their drive. Ultimately by nurturing curiosity, self-assurance, and a positive attitude towards growth, the game aims to spark a love, for learning and support personal and academic growth.

## **Objectives:**

1. One of the objectives will be to ensure that the audience stays active and entertains themselves by solving problems or answering trivia questions and difficult riddles.
2. Incorporation of the use of love for education by the need for educating more people in the fun ways that are playful and have interactive nature.
3. Here, for the sake of enhancing learning theories and improving the retention as well as comprehension, the game will be designed to reinforce learning through interactive gameplay so that students can receive the feedback immediately.
4. Making up for different age and skill levels, levels of difficulty, number of opponents, and other customizable options put people at the decision making.
5. We will ignite in the active players a desire to learn new things, as the learning itself will be a part of the virtual environment by generating scenarios, mini-games, and daily tasks that will be a guide in the learning process.
6. Thus, the purpose of the process is to fortify this feeling of attainment and progress by awarding players with a countable score, unique achievements, and better content due to their quiz answers and riddles being correct.
7. To boost friendly relationships, engagements and sharing, we should incorporate things like multiplayer modes, leaderboards, community forums where people will fight, share experiences and link with others in the same social platform.
8. To ensure ongoing learning and individual development through provision of extra learning materials in addition to creating an opportunity for the players to apply the information learnt after the game.

9. To be an ecumenical platform for everyone, the game may as well be customized to suit players who belong to different backgrounds, have different disabilities and are of different learning styles.
10. For a continuous cultivation and traction of the game, the related features, content, and progresses should be making constant updates as they relate to educational progression and the feedback of its users.

# **Game Design**

## **Overview**

The Quiddle is more than just a quiz game full of math puzzle, scientific facts, stocking life science data, riddle, and joke challenge. The player is exposed to multiple options of the types of quiz questions they can choose to answer and the game or the system creates the questions it generates based on the player's preference. At the end of the game, results will be shown, and points are given depending on the number of correct answers.

## **Gameplay:**

### **1. Main Menu:**

- The game starts with a main menu where players can select the type of quiz they want to play: Mathematics, Physics, Life Sciences, 'Brain teasers', Jokes, or a hodge-pod of everything!
- In addition to that, there are also "View Instructions" and "Settings" features on the main menu.

### **2. Quiz Selection:**

- There will be a checking of the type of quiz, and then players will be presented with the questions being asked in that category.
- Likewise, in Mathematics the issues could cover arithmetic, algebra, geometry or even calculus. For Physical Science, for example, test questions could be based on physics and chemistry fields. Questions in Life Sciences may touch the matters of biology and ecology. Riddle and Scrutinize parts will be all about thought-provoking riddles and relatable jokes which will make readers open to fresh ideas and insights.

### **3. Answering Questions:**

- Each question is displayed on the screen with either multiple-choice answers or a text entry box option, meaning it comes down to how the question is asked or whether you are supposed to write or choose multiple choices.
- Players should determine the right response or data input for each question within the allocated time.

#### **4. Scoring:**

- Subjects are given closer points for each right answer.
- The score is the function of the number of correct answers and sometime based on time taken to finish each question.
- The question format will be single play or multiple play. In the multiple play, the participant earns points for correct answers and noticed deduction of points if the player takes too long to answer the question.

#### **5. End of Quiz:**

- When all questions are (answered or not) or the time limit is reached, the quiz will conclude the session.
- Towards the end, the portal shows the player's final score including the exact number of correct responses.
- Players can decide to replay the quiz again, change their quiz mode or go to the main menu as they please.

#### **6. High Scores:**

- Adding more gaming options by putting a high score leaderboard in the Quiddle game, where one can see the scores of other players, it will be even more interesting.
- Players save their scores and friends could challenge them then for a leader board trophy.

#### **Features:**

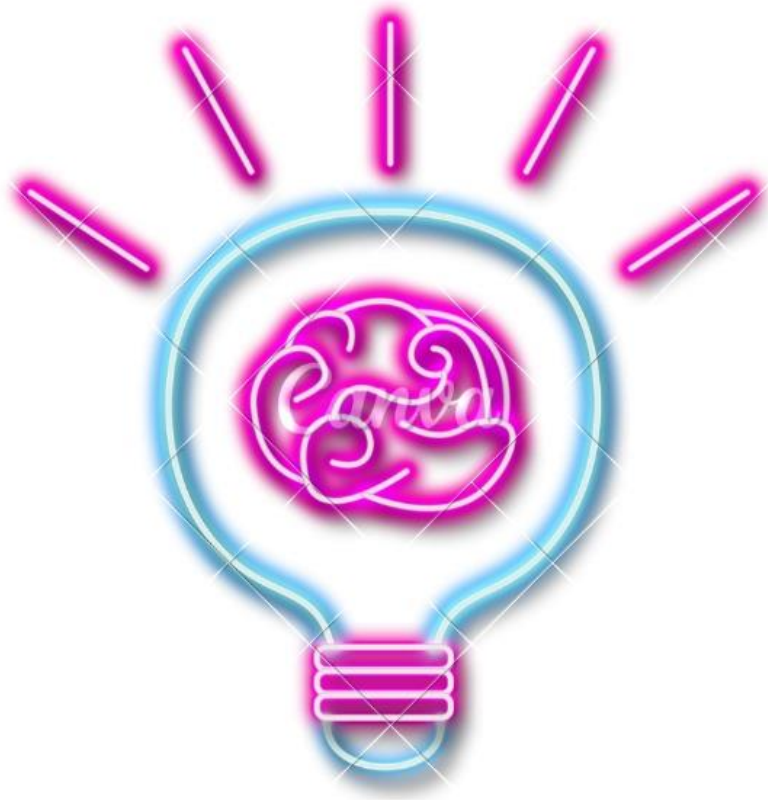
- Quiz varieties with plenty of subjects for every interest area and knowledge.

The problem with excessive repetition will be resolved as each playthrough will be different with the choice of some randomized questions.

- Well-designed and intuitive user interface. Read Full
- Adjustable difficulty levels enable matching players with different skill levels.
- Within the game, there can be hints/explanations of the questions that can be used for schooling.
- Introducing new questions and categories on a regular basis representing the true diversity of STEM.

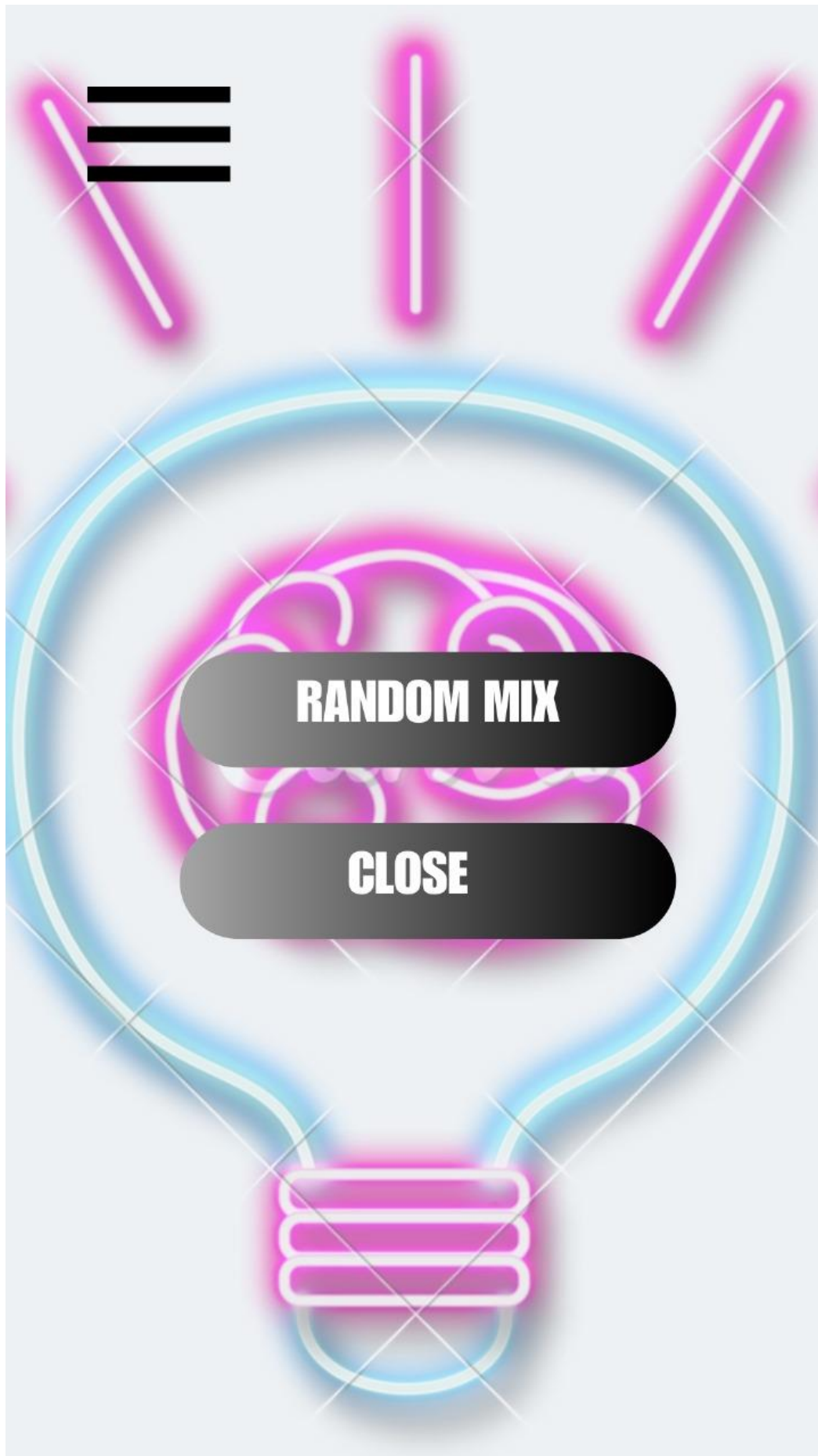


# THE QUIDDLE



## QUIDDLE

**START**





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**Mathematics**

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**PHYSICAL SCIENCE**

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**LIFE SCIENCES**

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**JOKES**

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**RIDDLES**

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**Instructions**

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# THE QUIDDLE RIDDLES

What is full of keys yet it can't  
open a single lock?

☒ Keyholder

☒ Keyboard

☒ keys

CLOSE

## **Opportunities to Improve**

1. Cooperative Learning - Add a multiplayer option to the games or quizzes to make them more user-involved. - Provide the users an opportunity to play against their friends or cooperate with them. It might stimulate social learning, and as a result, the app will be more entertaining.
2. Visual Learning – Providing YouTube links for specific problems being unclear to the user about how the app got to the final answer can be helpful to those who need to see and hear someone else explain.
3. Consistent Updates and Receiving Feedback. - Updates on the app of any changes in curriculum or subjects, depending on the time - Develop several ways for users to submit their feedback including the creation of surveys, in-app feedback forms, or a dedicated forum for suggestions and discussions - Feedback to your comments and update it often, according to suggestions.
4. Accessibility and Diversity - Reach a larger audience by making the app available in several languages and including text-to-speech and voice control features. - Make the app accessible to people with disabilities by including features such as screen readers, adjustable text sizes, and alternate input ways. - Design the app with cultural sensitivity in mind, avoid stereotypes, and make sure the material is acceptable for people from various backgrounds. Ensure that riddles and jokes are appropriate for every culture and everyone.
5. Real-world Application - Make connections between instructional materials and practical applications to show how what users are learning is applicable to their daily lives. - Connect educational content to real-life applications, demonstrating the relevance of what users are learning to their everyday lives.

## **Conclusion**

In conclusion, The Quiddle develops as a transformative instructive stage, interlacing the energy of gaming with viable learning techniques. By cultivating collaboration, customization, and inclusivity, it addresses the challenges of conventional learning strategies, reinvigorating understudy engagement and inspiration. With its energetic gameplay, differing substance, and commitment to nonstop change, The Quiddle not as it were upgrades scholarly execution but moreover touches off an enthusiasm for long-lasting learning. Connect us on this immersive travel where interest thrives, information flourishes, and each interaction flashes mental development. In this energetic scene of instruction, The Quiddle stands as a signal of development, impelling learning past boundaries and motivating an era of deep-rooted learners while using a bit of humor to instill knowledge to its uses.

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