



## **Patuakhali Science and Technology University**

Faculty of Computer Science and Engineering

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### **CCE 310 :: Software Development Project-I**

#### **Sessional Project Proposal**

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**Project Title: GUESSBAY QUIZ APP**

Submission Date: 27 November 2025

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# GUESSBAY

## 1. Abstract

Guessbay is a fast-paced mobile quiz game that combines the addictive one-question-at-a-time format of TikTok-style feeds with genuine prizes and token-based economy. Players answer user-created questions or Puzzle to win tokens, post their own high-stakes quizzes, puzzles, spin a daily wheel, and compete fairly in a transparent, escrow-protected environment.

## 2. Objectives

- Build a fun, free-to-start quiz app where anyone can win real money by answering just one question at a time.
- Let every player easily post their own questions, puzzle with real cash prizes and earn when others play.
- Give every new user 5 free tokens + daily wheel spins so they can win cash on day one without spending.
- Make the game super fair: prize money is locked in escrow and automatically paid to the winner.
- Create a viral loop with referrals, notifications, and fresh user-made questions every day.
- Earn steady revenue through small platform fees, token packs, and an optional \$4.99 monthly subscription.

## 3. Problem Statement

Millions of people love playing quiz and trivia games on their phones, but almost all of them suffer from the same problems:

- Players can only answer questions — they can't earn money by creating their own.
- Prizes are fake points, virtual coins, or tiny gift cards that feel worthless.
- The same boring questions repeat forever, and the feed quickly becomes stale.
- Many “real money” apps are unfair: the platform keeps the prize if no one wins, or they cheat with bots and impossible questions.
- New players have to pay real money from day one just to play, so most quit before trying.
- Creators have no way to earn from their knowledge and creativity.

Because of these issues, users get bored fast, don't trust the game, and never come back — while talented people who could make amazing questions have no place to earn from them.

Guessbay solves all of this by turning every player into a creator and every correct answer into real cash, with a fair, transparent, and addictive system that keeps fresh questions flowing every second — completely free to start.

## 4. Related Work

- Quiiz (quiiiz.com, 2025): A live head-to-head trivia platform where players compete in real-time quizzes on topics like general knowledge and sports, earning cash prizes from tournaments.
- Swagbucks Daily Trivia (Quora, 2025): Free daily quizzes across categories (e.g., history, entertainment) rewarding PayPal cash or gift cards.
- Quiz Cash (Google Play, 2025): Daily topic-based quizzes (GK, tech, sports) where correct answers earn redeemable coins for cash.
- Mega Quiz Gaming (HeyNau Games, 2025): Stream-integrated quizzes for Twitch/TikTok LIVE (e.g., "Guess the Logo" on gaming themes).
- Quizlet (NimbleAppGenie, 2025): Educational UGC platform for flashcards/quizzes; monetizes via premium subscriptions (\$35/year) and corporate licensing.
- Riddle Quiz Maker (Riddle.com, 2025): Tool for creating monetized quizzes/polls with in

## 5. Scope

- Anyone can **post a question** with real cash prize (from their wallet).
- Players pay a small fee to answer, **one question at a time** (like TikTok feed).
- If someone answers correctly → **they win the full prize instantly**.
- If no one wins → **half the fees go back**, half split between creator & app.
- Everyone starts with **5 free tokens** + daily wheel spins to play and win real money from day one.

## 6. Methodology

### 6.1. Technology Stack

The development of GUESSBAY will follow an agile methodology, allowing for iterative improvements and user feedback. Our technology stack will include,

<b>Frontend</b>	Unity Canvas
<b>Backend</b>	Unity Monobehaviour
<b>UI/ UX Design</b>	Adobe Illustrator
<b>Database</b>	Firebase
<b>Authentication</b>	Firebase authentication
<b>Hosting (web app)</b>	Playstore(future)
<b>CI/CD</b>	GitHub

Table 1: Technology Stack for GUESSBAY

### 6.2. Design Principles

The design of GUESSBAY will adhere to the following principles,

<b>Material Design</b>	Following Google's Material Design guidelines for a consistent and modern UI/UX in Android
<b>Responsive Design</b>	Ensuring the application works seamlessly on various screen sizes and orientations including web app.
<b>User-Centric Design</b>	Focusing on user experience and ease of use, with intuitive navigation and clear UI elements.
<b>Cross-Platform</b>	Ensuring consistent functionality and design across Android, iOS, and web platforms.
<b>Documentation</b>	Providing comprehensive documentation for developers and users, including API documentation and user guides.

Table 2: Design Principles for GUESSBAY

## 7. Visual Models

### 7.1. Schema Diagram

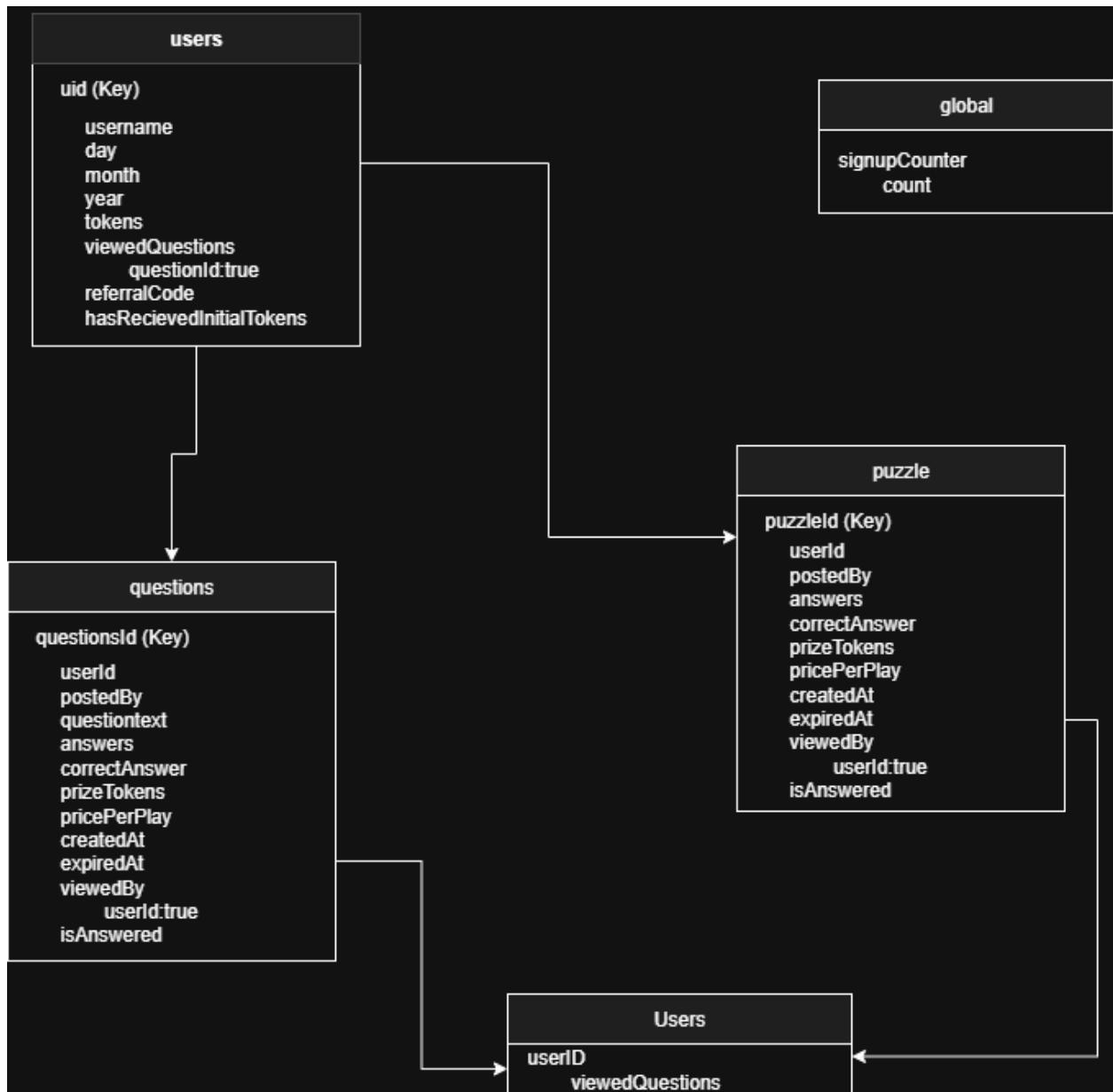


Figure 1: Schema Diagram of GUESSBAY Architecture

## 7.2. ERD (Entry Relationship Diagram)

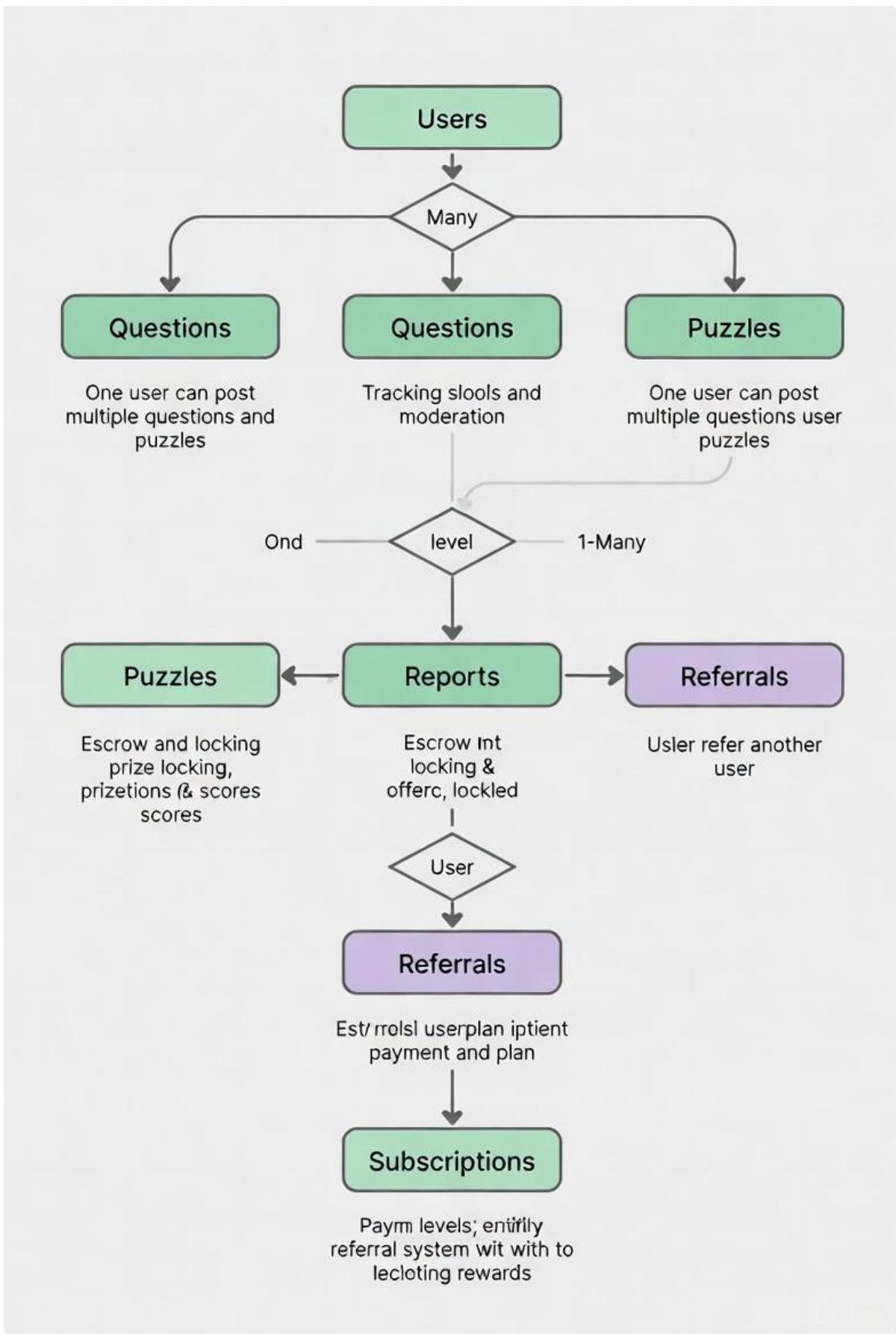


Figure 2: Entity Relationship Diagram of GUESSBAY

## 8. Timeline (Gantt Chart)

The base timeline for the development of GUESSBAY is as follows,

Task	Week 1-2	Week 3-4	Week 5-6	Week 7-8	Week 9	Week 10	Week 11	Week 12
1. Project Setup + Login System	✓	✓	✓					
2. Token Wallet + Escrow Logic (Firebase)		✓	✓					
3. Question/Puzzle Posting + 4–15 Answers + Prize			✓	✓				
4. “For You” Feed – One Question/Puzzle, No Repeats				✓				
5. Gameplay – Timer, Power-ups, Win/Lose Flow			✓	✓	✓			
6. Daily Wheel + Rewarded Ads + Subscription						✓		
7. Notifications + Unread Badge + Referral						✓	✓	
9. Final Testing & Deployment								✓

Table 3: Development Timeline of GUESSBAY

## 8.1. UI Mockups

Figure 3: UI Mockups of GUESSBAY

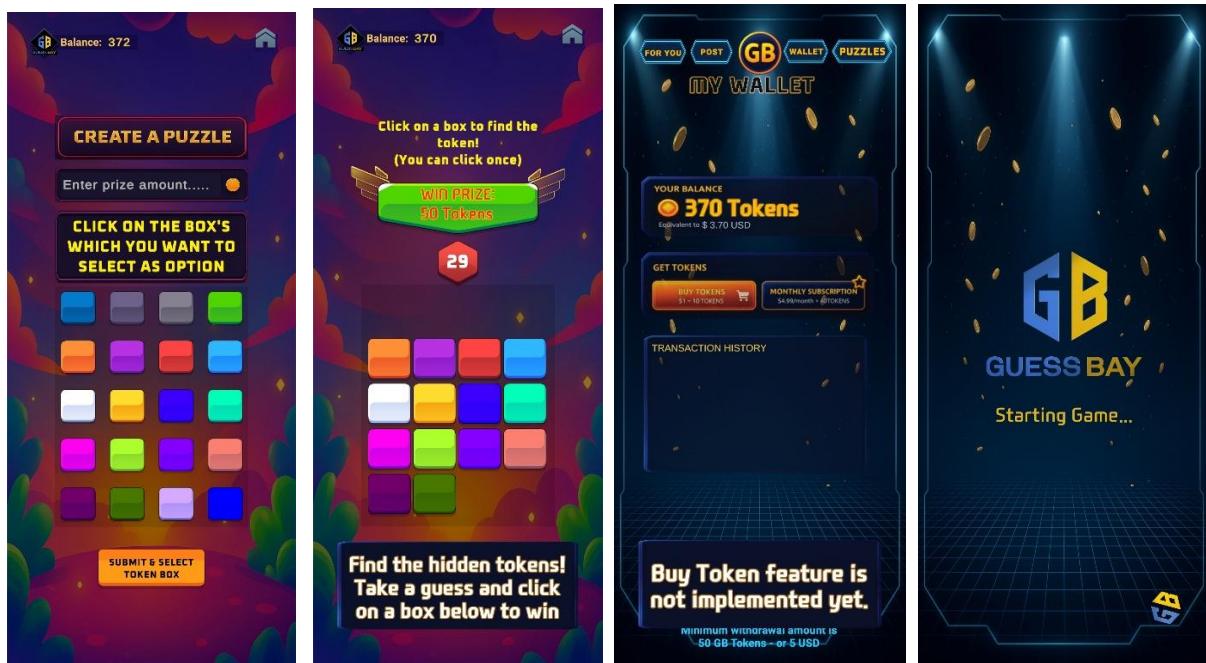
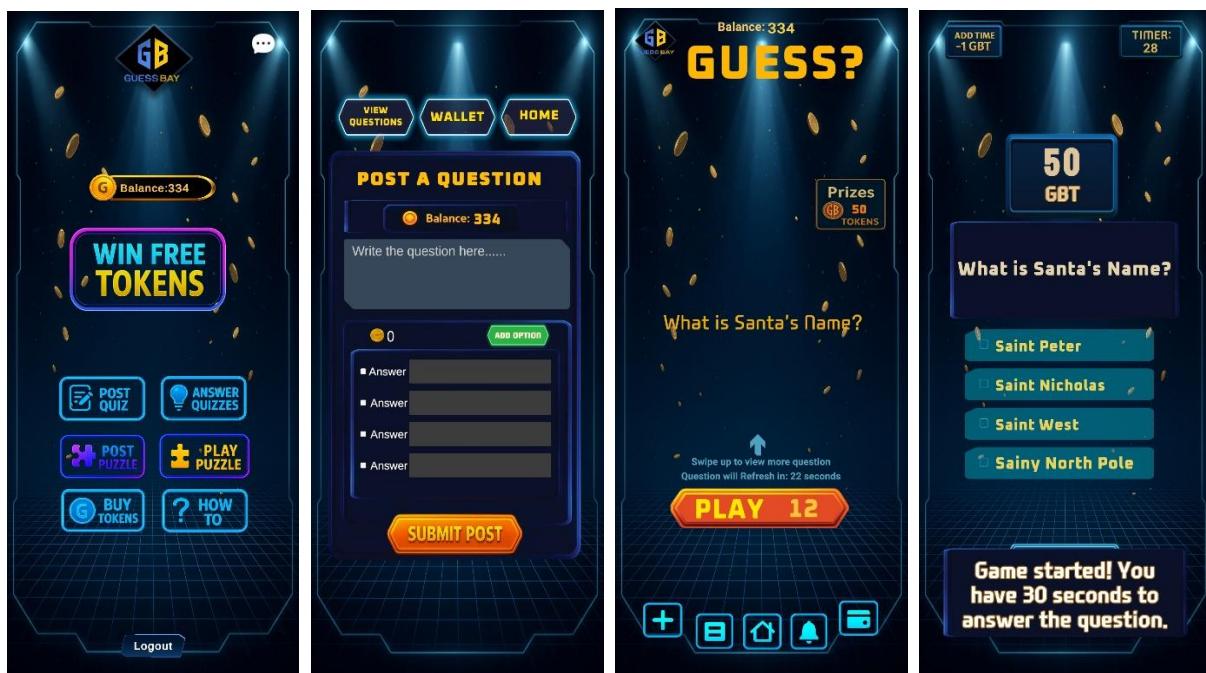


Figure 4: Add All the pages



## **9. Limitations**

- Real-money gaming laws restrict launch in many countries (e.g. most US states, China, etc.) and require gambling licenses/KYC for withdrawals.
- High risk of fraud, botting, and cheating on user-posted questions, demanding constant moderation and anti-cheat systems.
- Revenue depends heavily on users continuously funding new questions; if posting slows, content dries up and the entire economy stalls.

## **10. Result**

The expected outcome of GUESSBAY is a fully functional, cross-platform application that allows users to manage their digital resources efficiently.

## 11. Weekly Report

No.	Date	Objective	Remarks
1		Project proposal with initial R&D	
2		Signup and Login system	
3		Post question frontend and backend	
4		Post Puzzle frontend and backend	
5		Spin wheel	
6		Answer Quiz with security setup	
7		Play puzzle with security setup	
8		Admin Panel	
9		Notification System	
10		Security (No screenshot, app Close while open other tab)	
11		Report user who posts fake question	
12		Wallet system with payment integration	
13		Subscription (Normal, Premium)	
14		Sound system	
15		UI Animation	