Green University of Bangladesh

Department of Computer Science and Engineering (CSE)
Semester: (Fall, Year: 2024), B.Sc. in CSE (Day)

Developing Data Flow Diagram DFD Level 0 & DFD Level 1

Exprement Name: SDLC model selection for Quiz & Earn: A Dual-Mode Quiz App with Real-Time Rewards and Competitive Leaderboard

Course Title: Integrated Design Project I
Course Code: CSE-324 , Section: 213-D1

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Lab Report Status	
Marks:	**Signature:**
Comments:	**Date:**

1 Objectives

- Develop and present Data Flow Diagrams (DFD) for the Quiz Management System project.

- To explain the purpose of data-flow diagrams

- To describe the meaning of the symbols used in data-flow diagrams.

- To construct simple data-flow diagrams from a textual description.

- To know more about LucidChart.

- To learn about DFD Leve 0 and DFD Level 1.

2 Procedures

2.1 DFD Level 0: Quiz Management System

The Level 0 DFD provides an overview of the Quiz Management System, identifying the primary entities and data flows between them.

Entities:

- User Panel

- Admin Panel

- LeaderBoard

- Withdraw BDT

- Quiz Data

Processes:

- 1.0 Quiz Management System

Data Flows:

- User Information (from User Panel to Quiz Management System)

- Manage User & Data (from Admin Panel to Quiz Management System)

- Show Leaderboard (from Quiz Management System to LeaderBoard)

- Withdraw Cash (from Quiz Management System to Withdraw BDT)

- Play Quiz (from Quiz Management System to Quiz Data)

2.2 DFD Level 1: Quiz Management System

The Level 1 DFD expands on the main processes identified in Level 0, providing detailed insights into the sub-processes and data flows.

Processes:

- 1.0 Admin Functions

- 2.0 Account Management

- 3.0 Quiz Participation

- 4.0 Offline Mode
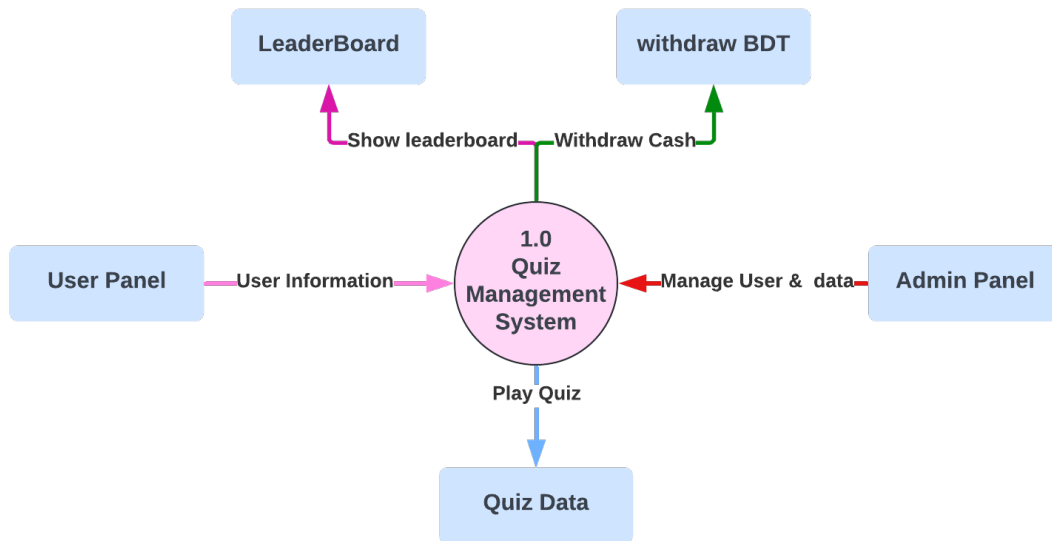
- 5.0 Subscription Management

- 6.0 Rewards System

Data Stores:

- Quiz Data

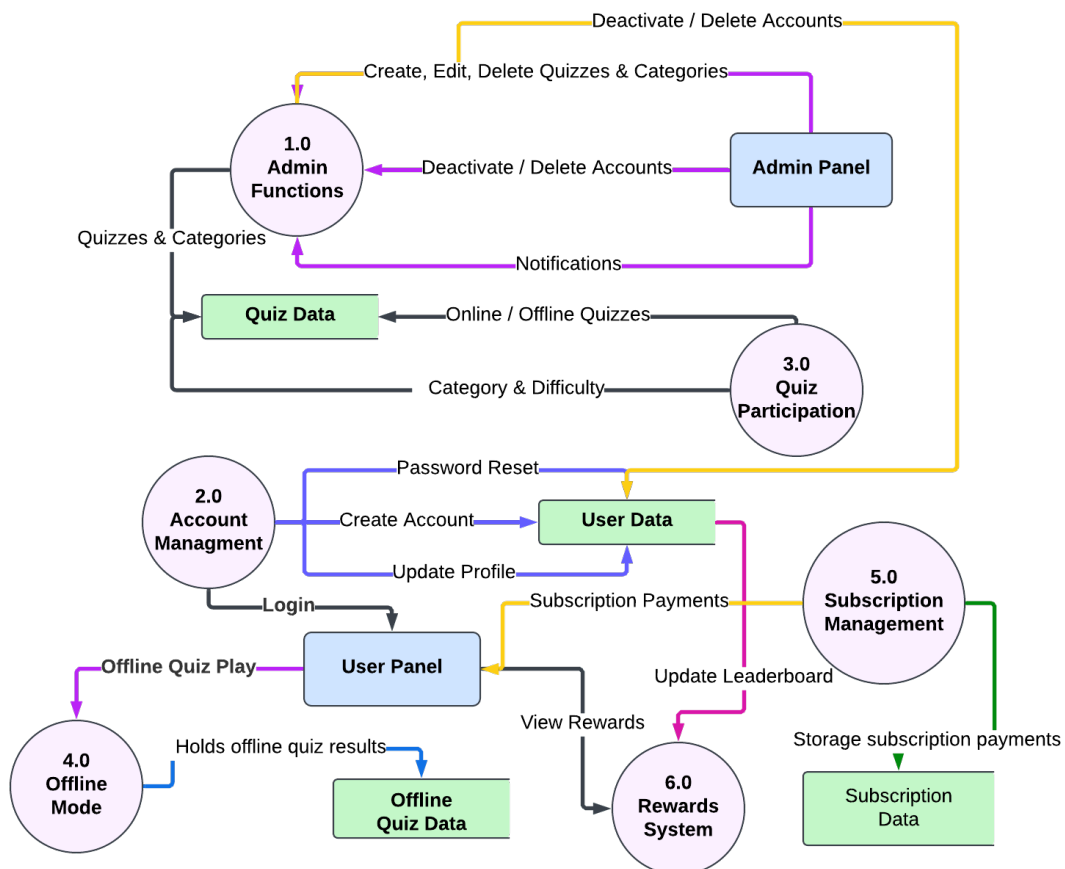- User Data

- Offline Quiz Data

- Subscription Data

Data Flows:

- Login (from User Panel to Account Management)

- Offline Quiz Play (from User Panel to Offline Mode)

- Manage User & Data (from Admin Panel to Admin Functions)

- Quiz Data (from Admin Functions to Quiz Participation)

- User Data (from Account Management to User Data)

- Subscription Data (from Subscription Management to User Data)

3 Implementation

Level 0 DFD of Quiz & Earn: A DualMode Quiz App

Level 1 DFD of Quiz & Earn: A DualMode Quiz App

4 Conclusion

Developing the DFDs for the Quiz Management System helps in visualizing and understanding the data flow and interactions within the system. The Level 0 DFD offers an overview, while the Level 1 DFD provides a detailed representation, aiding in better system analysis and design.

References