MaswaliYote Quiz Management System - Domain-Driven Design Report

Introduction

Domain-Driven Design (DDD) is a philosophy that emphasizes the importance of understanding and modeling the business domain. It is a strategy aimed at improving the quality of software by aligning it more closely with the business needs it serves.

Event Storming is a collaborative technique used to explore complex business domains and design software systems. Core Domain Charts are part of this technique to represent key elements and relationships in a system. In the context of the MaswaliYote Quiz Management System, let's identify the main domains.

Domains Identification:

1. Authentication Domain:
   - Responsible for handling user authentication.
   - Subdomains: Admin Authentication, Student Authentication.

2. Quiz Management Domain:
   - Manages the creation, updating, and deletion of quizzes.
   - Subdomains: Quiz Creation, Quiz Updates, Quiz Deletion.

3. User Management Domain:
   - Manages the creation, viewing, updating, and deletion of users.
   - Subdomains: Admin Management, Student Management.

4. Quiz Participation Domain:
   - Handles the process of students participating in quizzes and viewing results.

Event Storming:

Event Storming involves capturing events that occur in a system. Here are some sample events for each domain:

1. Authentication Domain:

   - UserLoggedIn
   - UserLoggedOut

2. Quiz Management Domain:

    - QuizCreated
    - QuizUpdated
    - QuizDeleted

3. User Management Domain:
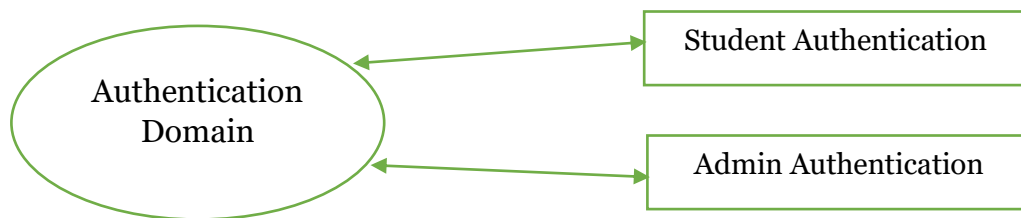
    - AdminCreated
    - AdminUpdated
    - AdminDeleted
    - StudentCreated
    - StudentUpdated
    - StudentDeleted
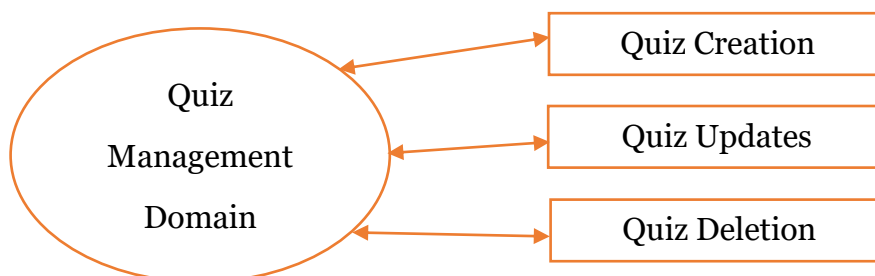
4. Quiz Participation Domain:

    - QuizStarted
    - QuizAnswered
    - QuizCompleted
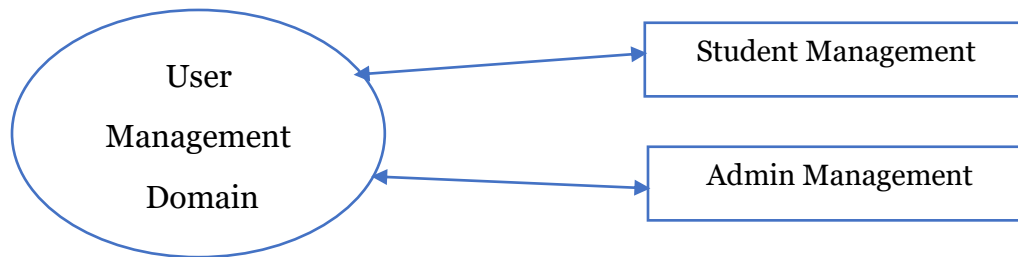   - QuizResultsViewed

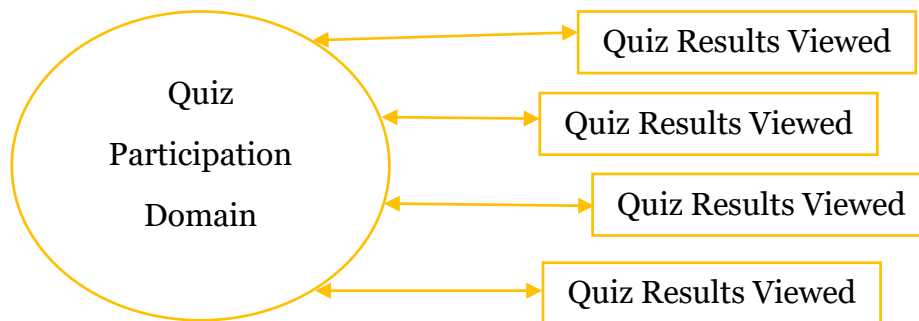**Core Domain Charts:**

1. Authentication Domain:

2. Quiz Management Domain:

3. User Management Domain:

4. Quiz Participation Domain:

Relationships:

I. Authentication Domain and Quiz Management Domain: Admins need to be authenticated to manage quizzes.

II. Authentication Domain and User Management Domain: Admins and students need to be authenticated for user management.

III. Quiz Management Domain and Quiz Participation Domain: Quizzes need to be managed before students can participate.

IV. User Management Domain and Quiz Participation Domain: User management may influence quiz participation.