# Derivco Winter School Movie Quiz

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### Introduction

Movie Quiz is a web and mobile based application that allows a user to play through a series of movie-based quizzes. Each correctly answered question will increase a user's score. The faster you answer, the more points you get. Users can choose from a variety of genres to be quizzed on.

### User Characteristics

- Administrators Administrators users will include members of the Derivco Winter School team. Administrators will be able to create, edit, and delete questions and categories on the system.
- Players Players are the end-users of our system. They will be able to register a new account, log in to the system and play through the quizzes. They will also be able to access the leaderboard.

# Domain Model

The following is a rough domain model of our system:

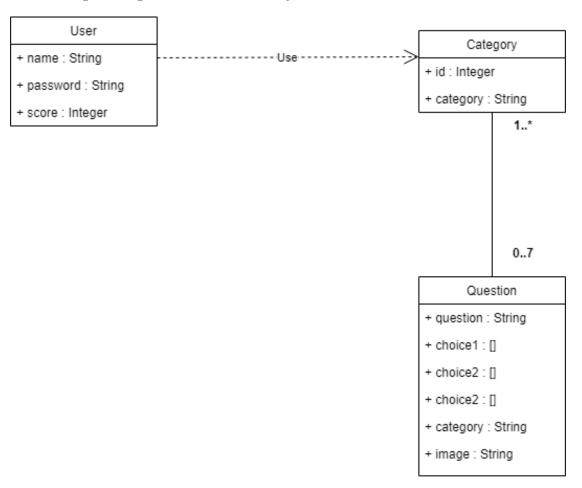


Figure 1: Domain Model

### Functional Requirements

- R1. Users should be able to interact with the system through a web interface frontend.
- **R2.** Users should be able to register their account.
  - **R2.1.** Admin users should be able to delete any regular user's account.
- **R3.** Users should be able to login with their account.
- **R4.** The system should restrict further application functionality to logged-in users.
- **R5.** Users should be able to begin a quiz.
  - **R5.1.** Users should be able to select a category to be quizzed on.
- R6. Users should be able to complete a quiz.
  - R6.1. Users should be able to submit answers for a quiz question.
  - R6.2. Each quiz should be complete after seven questions have been completed.
  - **R6.3.** The system should only allow for 10 seconds per question.
- **R7.** Users should have a running score that is dependent on how quickly they correctly answer a question.
- **R8.** Users should be able to view a leaderboard.
  - **R8.1.** The leaderboard should only contain the top 25 users.
- R9. Users should be allowed the opportunity to play again.

## **Technology**

The following techonologies will be/are utilized in the development and function of the Movie Quiz system:

- MongoDB database.
- Angular 7 for frontend web application.
- Mocha and Chai for Unit and Integration testing.
- NodeJS for the servers and APIs.