

# CardHub: The Ultimate Digital Flashcard Experience

## Overview:

CardHub is a cutting-edge digital platform designed to revolutionize the traditional study method of using flashcards. With a seamless blend of technology and education, CardMaster introduces a fresh and dynamic approach to learning. Beyond just simple card creation and review, it incorporates interactive features like competition mode, allowing users to challenge themselves and others, fostering a more engaging learning environment.

## Functionality Description:

CardHub: A digital platform where students and educators can create, share, interact and compete with each other with digital flashcards to enhance learning.

## Main Features:

**Card Creation:** Users can create flashcards with a term/question on one side and its definition/answer on the other.

**Card Sets:** Users can group related cards together, e.g., "Biology - Chapter 3".

**Study Mode:** Users can use different study modes (like matching, multiple-choice, and classic flip).

**Share and Collaborate:** Users can share their card sets publicly or with specific users. They can also collaborate on card sets.

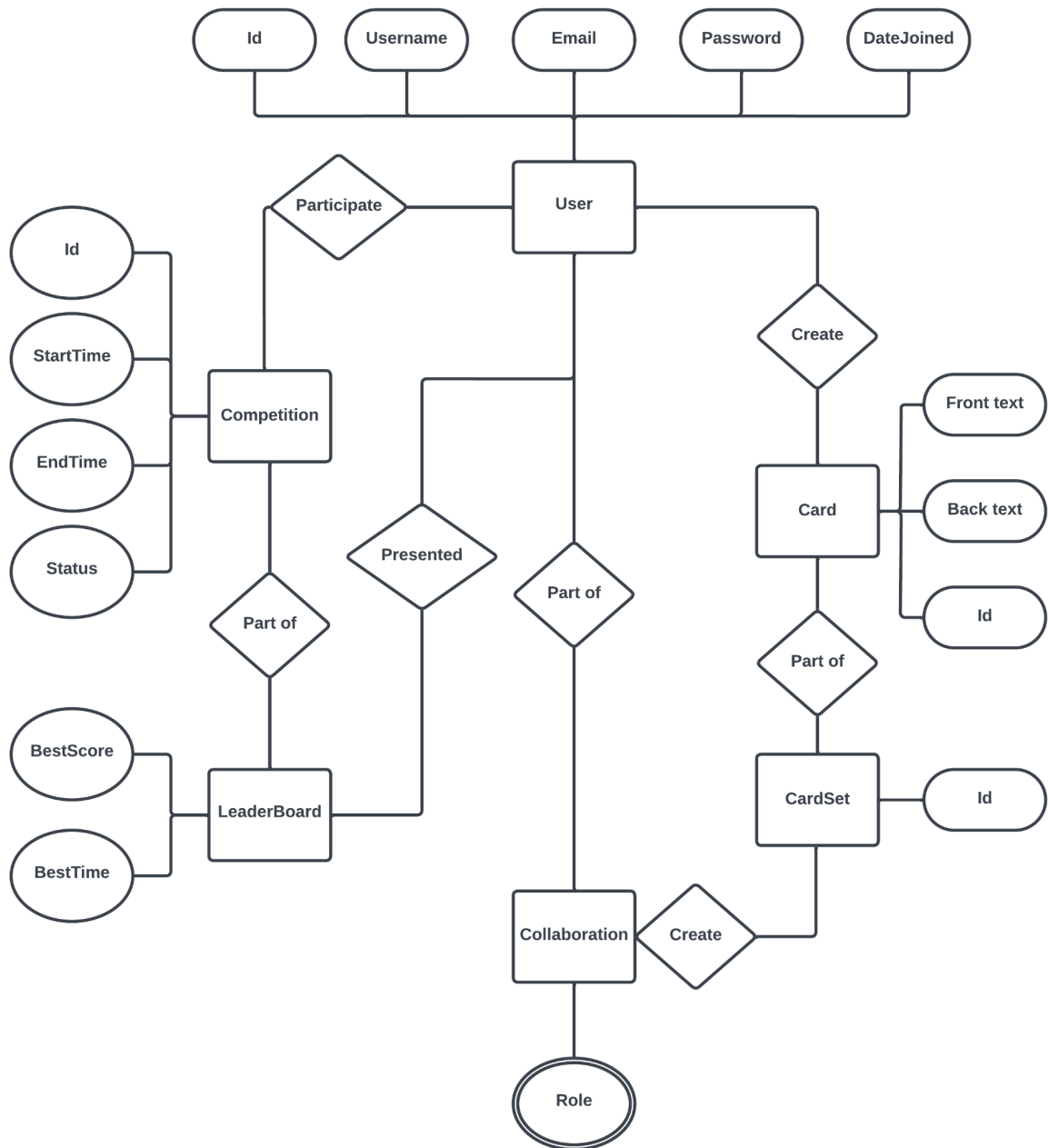
**Community Interaction:** Users can comment on card sets, upvote useful sets, and follow creators.

**Challenge Friends:** Users can send competition requests to friends using specific card sets.

**Random Competitions:** Users can join ongoing random competitions where they compete against others using the same card set.

**Leaderboards:** For each card set, there's a leaderboard showing the top scorers based on accuracy and speed.

## ER Diagram:



## User Interaction:

Create Cards: Users can make individual flashcards with terms and definitions.

Create and Manage Card Sets: Users can group cards into sets for organized study.

Study Modes: Users select how they want to study: flip cards, matching games, or multiple-choice tests based on their cards.

Share and Collaboration: Share card sets with others, invite others for collaborative editing, or make a set public for all.

Community Features: Comment on card sets, upvote helpful ones, and get recommendations based on study interests.

User Profile: Check their created cards, sets, study history, and community interactions.

