Requirement Document

Project Name – Quarantine Quizzes

Project Phase 1 Team Name -Parse

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Introduction

Description of Mini-world

During the quarantine, evaluation needs to be held using online quizzes. This involves solving a set of problems under a given time limit. Evaluation is mostly based upon number of problems solved and the marking scheme of the quiz.

A User can use the database for:

- Learning from his past performances
- Improving problem solving skills
- · Keep track of problems they may have solved

Purpose

Purpose is to make students learn from their past performances in online guizzes.

Intended audience /user

The intended audiences are the institutes where there is a need for an online platform. There are two types of users:

- Admin users or teachers who can create questions and form quizzes to evaluate the students.
- Normal users or students who can attempt the quizzes created and learn from the questions.

Database Requirements

Entities

)	User
	 User id - Primary Key Name - composite key First Name Middle Name Last Name Date of Birth Primary Email ID Secondary Email IDs - multivalued attribute CurGrade Institute Join Date(datetime) Age - Derived Attribute
•	Question
	 Question ID - Primary Key Title Question text Score Options Option 1 Option 2 Option 3 Option 4 Option 5 Type (single correct, multi-correct) Marking Scheme Correct answer Wrong answer
	Question left
	Not all correct8. Correct answer/s : multivalued attribute
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• Quiz

- 1. Quiz ID Primary Key
- 2. Quiz Name

- 3. Creation Date
- 4. Starts at Time
- 5. Ends at Time

Submission

- 1. Answer ID Primary Key
- 2. Options multivalued attribute

Result

- 1. result value
- 2. evaluation date

Admin User

1. Category

Weak Entities

- Submission Depends on User and Question. Cannot exist until both exist
- Results Depends on question and its submission. Cannot exist until both exist

Relationships

•	Admin User - Quiz (Creates)	(1,n)
•	User - Quiz (Participates in)	(1,n)
•	Admin User - Question (Forms)	(1,n)
•	User - Question - Submission (Solves)	(1,1,1)
•	Quiz - Question (Has)	(1,n)
•	Submission - Question - Result (Results in)	(1,1,1)

n>3 Relationship

- Solves Relationship is a Tertiary Relation
- Results In Relationship is a Tertiary Relation

Subclass

• Entity Administrator User is a Subclass of entity User.

Functional Requirements

- Signup/Login for User and Admin
- Users and admin can see available guizzes
- Admin User can add a question
- Admin User can delete a question from his quiz
- Admin User can add a quiz
- Admin User can delete a quiz created by himself
- User review
- Score of a user may increase or decrease based upon performance
- User can update his user information like name, D.O.B., institute
- User can submit answer for evaluation
- User can see their score over time
- Admin user can see the complete data of students belonging to an institute
- User can see the statistics of a quiz(minimum marks, maximum marks, average)