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**Software name:** Let Them Be Quizzed!

**Purpose:** This software will be designed as a platform for creating and administering a

variety of quizzes, depending on user input. Using cloud computing, it will be a service

software that can be implemented by a variety of users for a variety of uses.

**Target Audience:** The initial target audience for the software will be school teachers, or in a

lockdown situation, parents that still want to be able to teach their children. The quiz content

and difficulty will be determined by the one administering it, thus it can be used for a wide

variety of audiences.

**Functionalities:**

● Build one or more quizzes

● Allow for multiple teachers to store the quizzes they’ve made

● Keep track of students, what quizzes they’ve taken, their grades and who gave them

the quiz

● Allow for manual quiz building where the questions are all made by the teacher, or an

“automatic” feature where math questions use a random number generator and

written questions can have a “pool” of readily available questions available to

administer. Teachers will be allowed to add or remove from these questions.

**Design Patterns Opportunities:**

Creational - Factory

Behavioural – Chain of responsibility Pattern

Structural - MVC

Documentation – 4+1 view model

This method will be used to ensure that all the desired features for the system are planned

for. It may prove to be unnecessary given that the plan is to keep the entire program as

simple as possible, but it’s better to plan for what’ s not needed instead of being surprised.

**Technologies:**

Language - Python

Platform - Anaconda/Spyder4

Database - Redis

Web service – Open Trivia DB