Requirements Specification

Version 1

Proposal for SIQuoIA

Group 6

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A. Preface

This is a proposal for the Simple Intelligence Quotient Increasing Application (SIQuoIA), a platform for running and managing quiz games.

B. Introduction

Purpose: SIQuoIA provides users with a web-based quiz platform. It will include a quiz program which prompts users with multiple choice questions with four possible answers. One and only one of those answers is correct.

Scope: All users will be allowed to submit quiz packets to be added to the pool of quizzes available to other users.

Only users of the application who have sufficient privileges, such as moderators or instructors, are allowed to approve and add user-submitted quiz packets.

SIQuoIA will keep track of users' progress on quizzes so that if a user logs off or is disconnected before a quiz is complete, that quiz can be resumed when the user logs back in to the system. Users' scores are also recorded.

Quizzes will not be timed.

Guest users will be allowed to log in, but their scores will not be recorded and progress on incomplete quizzes can not be resumed once the user leaves the system.

New users will be able to register for an account.

There will three user privilege levels: student, instructor, and moderator. Moderators will have the authority create new student and instructor accounts, and to assign and change the privilege level of a user. Instructors will have the authority to create new student user accounts.

Quizzes will be categorized by instructors or moderators into topics, subtopics, and sub-subtopics (three levels).

The interface will be in English only.

C. Glossary

W3C World Wide Web Consortium; main international standards organization for the World Wide Web (abbreviated WWW or W3); founded and currently led by Tim Berners-Lee at MIT.

D. User requirements definition

Users of SIQuoIA should have a working knowledge of how to use a W3C standards-compliant web browser, and must be able to read English.

E. System architecture

To be submitted in v2 of the proposal.

F. System requirements specification

The system will require a database management system (either MariaDB or PostgreSQL), and a Tomcat server, since the application will be written in Java.

G. System models

To be submitted in v2 of the proposal.

H. System evolution

I. Appendices

a. Hardware requirements