Collaborative Quiz MVC Architecture

MODEL

User DB	

The user database contains user information used for log-in and identification purposes.

Course DB	

The course database contains available courses and the users enrolled in them.

Question DB	

The question database contains course questions and answers uploaded by users.

Quiz DB	

The quiz database contains generated quizzes made up of randomized questions for specific users.

Result DB	

The result database contains quiz results generated by users taking quizzes.

Notify → Update ↑

CONTROLLER

Controllers are used for executing each function necessary to communicate between the view and the database. Functions can be seen under their respective model category along with the operation that each perform.

User	Course	Question	Quiz	Result
+login()	+getCourses()	+addQuestion()	+generateQuiz()	+generateResults()
+register()	+updateCourses()	+getQuestions()	+getQuestions()	+checkAnswers()
+logout()		+questionGenerator()	+returnQuizQuestions()	

Update ↓ User Action ↑

VIEW

The view demonstrates each page in the application and how users are able to navigate from one page to the next.

Login Page		Home Page		Quiz Page	

Course Selection Page		Course Materials Page		Results Page	