Question Bank Project Proposal

**GitHub:**

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**Proposal:**

For our project, we are proposing to create a question bank application that instructors and students can utilize. There will be a home page with a student view and an instructor view. On the instructor side, the question bank will provide a space for storing questions for quizzes and exams. The question bank will also provide a space for students to take tests that their instructor has created. On the student side, they will be able to take tests from their professor as well as possibly make their own quizzes to study. An algorithm we’ll use is a search algorithm like the binary search, for when the instructor is looking for students and presenting their corresponding grades. The software will have the ability to randomize a set of questions in a question library and present them the user/instructor. The data structures we may use include linked lists, and a hash set to access the students grades at random.

**Question Bank Goals:**

* Provide a user friendly, automated learning environment.
* To encourage studying and quizzing among learners.
* Incorporate a useful instructor view to manage/analyze their students’ progress.

Question Bank UML:

Diagram

Description automatically generated