

Project Overview

StudyBuddy is a web or mobile-based application designed to help students prepare for exams by storing past tests and generating new ones from a pool of previously administered questions. The application aims to facilitate effective studying by allowing students to practice with randomized versions of old tests while tracking and organizing answer keys for immediate feedback.

Objectives

- Test storage: Ability to store backexams and quizzes for each class
- Test generation: Generate new exams by shuffling questions from previous exams, for example Physics 1 has 3-4 back exams, you would take all of those questions and shuffle them and concat them together to make a new exam
- Answer Keys: Store the answers to each exam, and perhaps create an explanation, but that will require more done

Tech Stack

- React and Next.js for frontend
- MySQL or MongoDB for database
- Python for backend

Semester Goals:

- Design Schema to store questions and tests by class/subject
- Create API endpoints for uploading, retrieving, and updating exams
- Build frontend for user to upload and see back exams, and perhaps specific questions
- Create question bank for user to use on the site
- Create way to generate new exams

Milestones

- Design schema done by middle of end of September
- Database set up and api endpoints created by midpoint
- Frontend built to show exams by thanksgiving
- Question bank by end of semester