**CS 242 Final Project Proposal Template**

**Kushal Gandhi (krgandh2), Gary**

**Nimit Agrawal (nagrawa3), Boyang**

**Keshav Santhanam(santhnm2), Joey**

1. **Abstract**
   1. **Project Purpose**  
      What is the purpose of this project? What problems do you want to solve?

The purpose of this project is to give students the means to a course organizer that is more specific to organizing towards assignments. We hope to allow students to stay on top of their assignments as well as be able to seek help regarding them. Students will be able to ask for feedback related to their assignments from other students and the teacher. Using this system, there will be a more systematic approach to finishing assignments and will hopefully lead to more developed homework from the students.

* 1. **Background/Motivation**  
     Why are you interested in doing this project? Have you worked on something similar before?

We are interested in doing this project because we have all had trouble finishing our homework at one point or another. Using this system, we would be able to seek out help much more easily than trying to communicate with just your friends that may or may not know what exactly your problem is.

1. **Technical Specifications**
   1. **Platform:** (i.e. Website, iOS App, Arduino hack)

We plan to create a web application

* 1. **Programming Languages:** (i.e. PHP, Python, Lisp)

We plan to use Python and Flask for the web application as well as Javascript for UI work

* 1. **Stylistic Conventions:** (i.e. commenting, naming conventions, camelCase)

Plan to comment every method in Python code using docstrings as well as use underscores for our naming convention

* 1. **SDK:** (i.e. Pebble SDK, LAMP Stack, Android SDK)

Python and Flask

* 1. **IDE:** (i.e. Eclipse, Visual Studio)

Pycharm

* 1. **Tools/Interfaces:** (i.e. Android phone, Bluetooth tag, Google Chrome)

Google Chrome

* 1. **Target Audience:** (i.e. Botanists, iPhone users)

Students

1. **Functional Specifications** 
   1. **Features**  
      Several bullet points of what kind of functionality your project will feature. What should the user be able to do?

* Anyone can make an account as a student or instructor, admin would have to approve instructor registration requests
* Students will be able to view current tasks and due dates as well as completed tasks and mark a task as completed
* Instructors will be able to view progress of tasks completed as well as statistics related to the class
* Instructors can create new assignment where they can enter which students to send the assignment to
* Students will be able to upload files to ensure that a task is actually completed
* Instructors will be able to view completed assignments for each of the student in their class
* Students and teachers should be able to have a conversation about individual assignments that the student is currently working on
  1. **Scope of project**What are some of the limitations of this product?
* May not be able to handle large amounts of file data
* Might not scale to hundreds of users depending on database constraints

1. **Timeline:**
   1. **Week 1**

* Kushal
  + Create login / registration page for new users, create admin page that will contain list of instructors that are trying to register and information about instructors already approved
  + Display icons to allow admin to accept new instructor requests
* Nimit
  + Create student page that will contain student information
  + Create display for current and completed tasks as well as tasks details
* Keshav
  + Create instructor page that will contain instructor information, students, and student progress
  + Create form to allow instructor to create a new assignment
  1. **Week 2**
* Kushal
  + Create database schema for different types of users and registration information
  + Create template to display this information on admin page
* Nimit
  + Create database schema for tasks and which class/student they correspond to
  + Create template to display this information on students page
* Keshav
  + Create database schema for forum page that is related to each of the assignments given out, forum page will be discussion section area for students that need help or have questions
  + Create template to display this information on instructors page
  1. **Week 3**
* Kushal
  + Implement discussion board for teachers and students for each assignment
  + Worked on visualizations for students progress
* Nimit
  + Implemented imessage-esque system by creating full stack application
  + Worked on visualizations for students progress
  + Fixed bug to log in as student/professor
* Keshav
  + Fixed bugs on the home portal and refactored other crucial places in codebase
  + Worked on visualizations for students progress
  + Worked on building up front-end for dropbox integration
  1. **Week 4**
* Kushal
  + Create automated and manual tests to ensure instructors cannot have accounts until approved by adminand ensure that discussion board is displayed in order
  + Add Jquery animation for better user effects on login/admin/comment pages
* Nimit
  + Create automated and manual tests to ensure students can view all the correct and completed assignments that they have
  + Add Jquery animation for better user effects on student pages
* Keshav
  + Create automated and manual tests to ensure instructors can view the correct progress of assignments and that creating a new assignment pushes out new assignments on the student pages
  + Add Jquery animation for better user effects on instructor pages

1. **Future Enhancements**  
   What are some cool tweaks you’d want to make to your product after the core functionality is done? Are you planning to work on it in the future?

We would want to expand on this application to possibly include it to be used in agile type development teams. We believe that agile teams can similarly use a storyboard approach with assigning tasks to developers instead of just having an instructor to student relationship. Based on the popularity of the beginning stages of this application, we will decide whether or not to move forward with this project in the future.