Tim Kuehner

Requirements Analysis

Need: A method for easily submitting and collecting programming assignments.

Purpose: To create a system which allows students in programming classes to submit programming work. Additionally, the TAs must be able to collect assignments. Finally, the instructors need to be capable of managing the course, its sections, TAs, and assignments.

Users: Professors, TA’s, Students

Activities (Per User) and Constraints and Entities (Per Activity):

Professors:

* Ability to view all work sorted by class and section.
  + Student ID
  + File
  + Course ID
* Ability to search student by ID number.
  + Student ID
  + Course ID
* Ability to change grades for a student.
  + Student ID
  + Course ID
  + Grade
* Ability to add TA’s to a separate group from students
  + Student/Employee ID
  + Course ID
  + Group Permissions
  + Elevated Permissions
* Ability to remove or add students to a course or section of a course
  + Student ID
  + Course ID
  + Section ID
  + Elevated Permissions
* Ability to lock submissions to a constraint (such as time or file type).
  + Course ID
  + File
  + Time
  + Elevated Permissions
  + Selective Admin Permissions
* Ability to add assignment submission tabs for courses and sections
  + Course ID
  + Section ID
  + File Submission

TA :

* The ability to Download assignments individually or by course or by section
  + File
  + Course ID
  + Section ID
  + Student ID
  + Selective Permissions
* Ability to change/add grades for a student.
  + Student ID
  + Course ID
  + Grade
* Ability to search student by ID number.
  + Student ID
  + Course ID
  + Section ID
* Ability to add work for students manually for specific circumstances (emergencies or errors on students end).
  + Student ID
  + Course ID
  + Section ID
  + File
  + Selective Administrative Privileges
  + File Submission

Students :

* Ability to turn in programming assignments
  + File
  + File Submission
  + Course ID
  + File Type Specification
* Ability to download submitted work
  + File
  + Course ID
  + Selective Permissions
* Ability to view deadlines for work
  + File submission
  + Time
* Ability to view other members of group when groups are assigned for work
  + Student ID
  + Course ID
  + Section ID
  + Groups

System Requirements:

* Windows or MacOS operating system
* Adequate Hard Disk Space
* Adequate Processor Speed