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Assignment 3

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Requirement Analysis

Users

- CS Department staff (TA)
- CS Department faculty (Instructor)
- CS Department students

User Requirements

- CS Dept Staff
 - Need to be able to enter in grades for students
 - Store grade data with a relationship to the student
 - Store time data for when grades were posted
 - Store student data
 - Name
 - Pawprint (one student one pawprint)
 - Grades (grades always have to go back to a student)
 - Be able to message students
 - Need to be able to collect assignments from students
 - Store assignment due dates and student submissions
 - Store assignment content
 - Due date (date falls within assignment time)
 - Submissions

- Students who submitted (only students can submit)
 - When they submitted (students can only submit for themselves)
- Need to be able to see submissions
 - Store timestamps of when assignments are submitted
 - Store submission data (make sure only a student submitted it)
 - Store timestamps of submissions (flag late submissions)
 - Be able to comment for submissions
 - Store comments
 - Store who made the comment
 - Store who the comment is too
 - Store the assignment the comment was made on
- CS Dept Faculty
 - Manage the course (essentially a type of admin)
 - Change grades
 - Store current grades and be able to change them
 - Store grade value (one value to one assignment)
 - Store student grade is associated with (one grade to one student)
 - Store students grade data
 - Store student info listed above to pull up their profile
 - Set rubrics
 - Store rubrics that are posted on the app
 - Make rubrics

- Store who made a rubric
 - Be able to edit rubric
- Need to be able to give permissions to TA's and students
 - Store permissions groups in relation to TAs and students (only instructor can do this)
 - Store power given by permissions
 - Store people involved in each permissions group
 - Store people data already associated with them
 - Store current configurations and be able to add more
- CS Dept Students
 - Submit assignments
 - Store assignments and timestamp of submission
 - Store due dates (timestamp data type)
 - Store point value for assignment (one value)
 - Store assignment type (one type per assignment)
 - Store the different types of assignments possible
 - See grades
 - Store grades and be able to pull up an individual students grade (relationship)
 - Store the various grades youve had over the semester
 - Store statistics for your grades
 - Store your profile to be able to pull this up on the fly
 - Username
 - password

- See overall grades
 - Be able to perform simple calculations on the stored grades
 - Store overall class grade
 - Store curve values
 - Store grade weights for different assignments
 - Make sure a student can only see their individual grade

System Requirements

- Database
- Website/Application to show the app
- Server to host everything
- Build a frontend
- Backend software on the server