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Requirements Analysis

1. **Identify the different types of users of the software system**
   - Instructors
   - Teaching Assistants
   - Students

2. **Identify the activities each of these users will perform on the system**

   Instructors – Need the ability to:

   - post an assignment due date/time
   - select which file type to accept from the students
   - see the comments associated with the submission
   - to see each submission submitted
   - download any submissions submitted
   - see a confirmation or error message after posting an assignment
   - see all previous submitted assignments for that semester in case of grade disputes
   - post information about the assignment
   - post assignments only for certain student accounts (TA, Graduate students etc.)
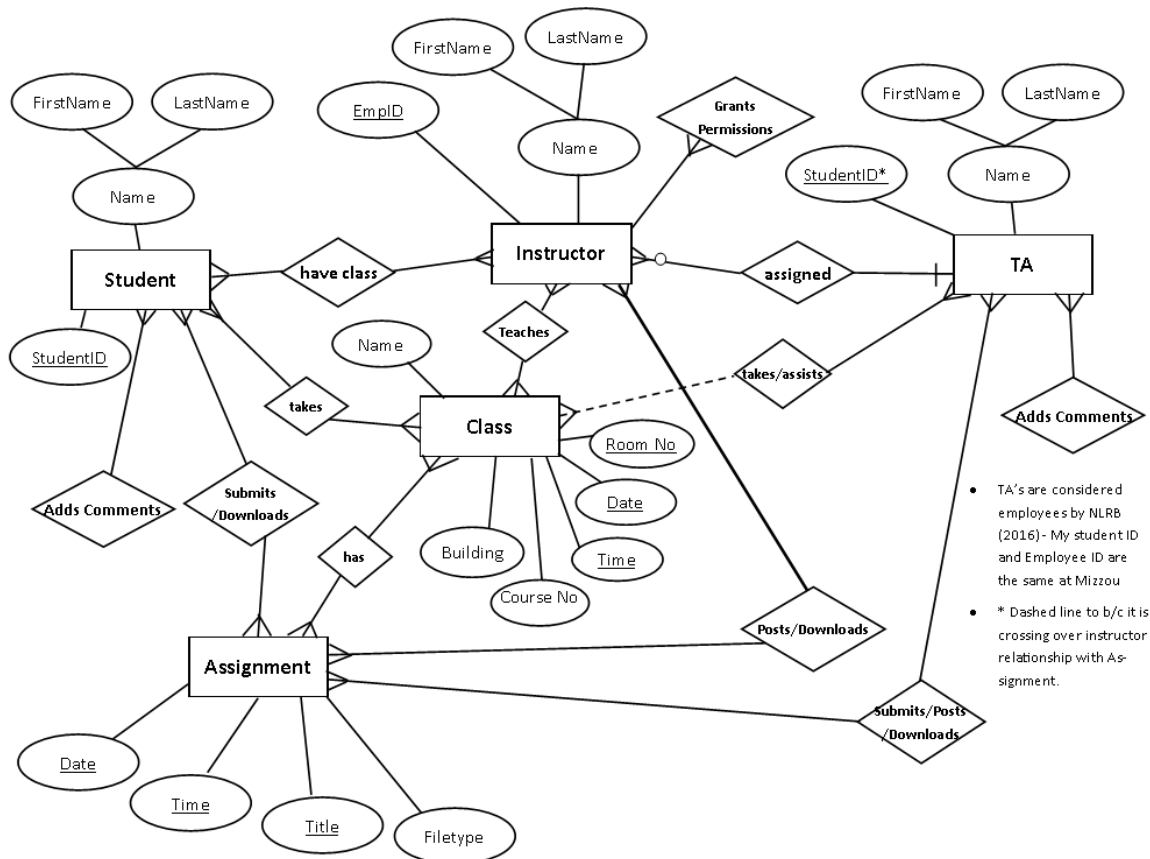   - grant permissions for certain accounts (TA, Graduate students etc.)

   Teaching Assistants – Need the ability to:

   - be granted special permissions from the instructor for posting purposes
   - post an assignment due date/time if granted those permissions
   - select which file type to accept from students (if granted posting permissions)
   - see comments associated with submissions
   - see each submission submitted
   - download any submissions
   - see the confirmation or error message after posting an assignment
   - post information about the assignment
   - everything a **Student** will need the ability to do.

   Students – Need the ability to:

   - see past assignment submitted and the current assignment due
   - see description of assignment or where to reference that information
   - download past assignments in case of file loss or proof of why the grading happened the way it did
   - clearly see the assignment due date & time
   - submit a file/link for the assignment
   - ability to see what file format is needed for the assignment submission
   - see a confirmation or error message of submitted file
   - submit a comment with the file submission
   - re-submit the file before the due date/time if needed

3. Relevant Data and Constraints

Constraints: No need for Instructors to submit a file for assignment, students cannot post an assignment, TA's cannot post assignments unless given permission from Instructor, students and TA's cannot grant permissions, if there is a grading system added, students cannot change or add a grade, TA's cannot change or add a grade, only professors can add/change a grade.

4. System Constraints and Requirements
- A web interface that allows differentiation of log on differences (permissions for Instructor, TA, student), information on assignments to be viewed, ability to upload files, and download files
- Server to store assignment files/links and to keep the website online
- Database on the server to handle multiple users and their information