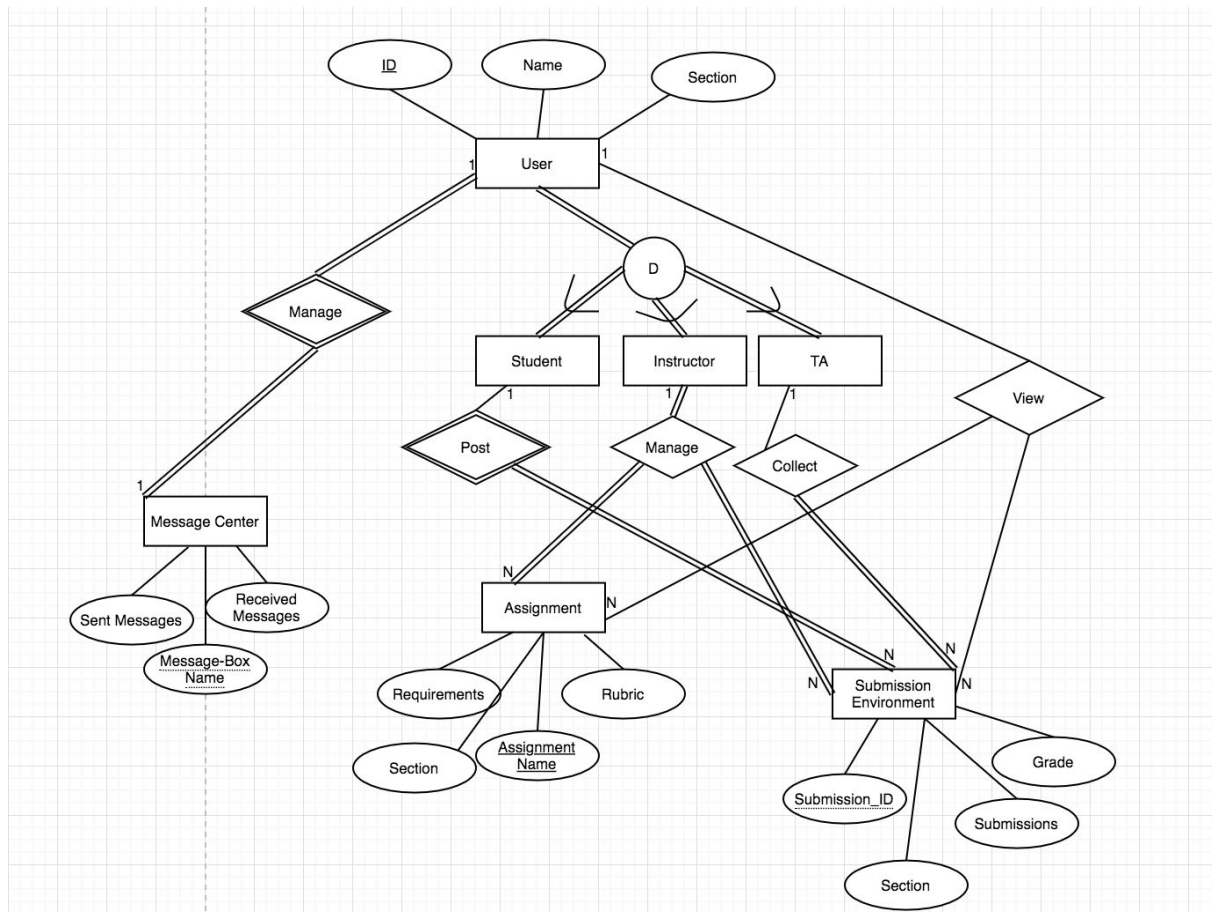Joseph P. Burris
Assignment 3: Requirements Analysis

- Different types of users
  - Students
    - Ability to view assignments
    - Post submissions for assignments
    - View grades on assignments
    - View/Download past submissions
    - Ability to communicate with instructor/TA's/students via message board
  - Instructor
    - Ability to manage current assignments for different sections
    - Ability to manage current submission environments for different sections
    - Ability to communicate with students/TA's/Other Instructors via message board
    - Ability to place/regrade assignments
  - TA's
    - Ability to view assignments
    - Ability to view submissions
    - Ability to place grades on submissions
    - Ability to communicate with instructor(s)/students/other TA's via message board
- Activity Constraints/Data (see EER Diagram)

- ○ Note: Assignments and Submission environments are different. Assignments are the details about each challenge. Submission environments are areas where the submissions/grades get turned in.
- ○ Note: All of the exclusivity (1-1, 1-N, N-N; OR; participation) is listed in the EER Diagram
- ○ Each message board is related to the ID of each user
- ○ Every user is either a student, TA, or instructor
- ○ every user can view all of the assignments/submission environments (provided they belong to the correct session)
- ○ Each submission's key is directly related to the student's ID that created it
- ○ Each person can only exclusively be a student, TA, or instructor (can't be more than 1)
- ○ The only constraint on viewing submission environments and assignments for each person is based on sections and authorization (would be checked upon query)
  - ■ authorization and section would be tied into the User_ID
    - ● e.g- TA Caleb Heinzman in charge of sections 1-4 could be something like T-CH-4985-1234
- ○ The instructor would be able to limit authorization (e.g.- remove TA status or Student status depending on circumstance)
- ● System Constraints/Requirements
  - ○ Internet Access
    - ■ In order to use this system, each user must have internet, and the solution must have some sort of server associated
  - ○ Accessibility
    - ■ every student must be able to view their submissions and grades
      - ● must be available on all device OS'
      - ● must be easy to run, so any device can run despite the specs
  - ○ Identification- each user must be identified with their authorization