

Assignment 1

Due Wednesday by 11:59pm **Points** 18 **Submitting** a file upload

For this assignment, you must practice creating the design documents studied in chapter two of the textbook. You must create use cases, CRC cards, and UML class diagrams. The use cases should be typed and submitted as a single pdf. The CRC Cards may be typed or written on index cards and scanned, then submitted as a single pdf. The UML class diagrams should be created using Dia or a similar tool, then compiled into a single document and submitted as a single pdf. That's three separate pdf files.

You will work in groups of three or four as assigned by the professor.

The software you will design is a hiring tool that might be used by the human resources (HR) department at a company. It allows HR employees to manage jobs, applicants, interviewers, and applicant ratings.

A user may...

1. Add/Delete a job
2. Add/Delete an applicant
3. Add/Delete an interviewer
4. Assign an interviewer to an applicant
5. Rate an applicant
6. Mark a job as filled

A job has an integer id, a name, a department, a description, and a boolean describing whether the job has been filled or not. An applicant has a job id, a first name, a last name, and an email address. An interviewer has a single name field only. A rating is a one to ten scale on three properties: experience, attitude, and desired salary.

It is up to you to decide how the classes should be connected. How are interviewers assigned to applicants? How are ratings given to applicants? What happens when there are more than one interviewer or rating? You may choose to add additional classes as you see fit.

There is no one absolutely correct way to complete this assignment. You will be graded on whether your materials are valid use cases, crc cards, and UML diagrams as specified by the text book. You will also be graded on whether your design can be implemented. Finally, I may deduct a small number of style points if your design is very difficult to modify or maintain. See the guidelines for this in the textbook.

Be prepared to talk about your work in class next week, and to continue working on your program.

