Requirements

Must have:

- The system should allow HR to hire new employees
- o Employees must be able to request modifications to the contract
- o The system must allow HR to modify existing contracts
- o The system must allow HR to terminate existing contracts
- o The system must have two roles, HR and employees
- o The system must allow HR to create employee roles
- o HR employees must be able to create an account for the candidate
- HR employees must be able to make the first draft of the contract to be shared with the candidate
- Candidates must be able to request modifications to the contract as a part of the negotiations process
- o Contracts must be signed by both sides once an agreement has been reached
- o Contracts must contain employer name and address
- Contract must include the name of the employer and address off the candidate
- Contracts must include the duration
- Contracts must include the number of hours per week
- o Contracts must include the number of vacation days
- Contracts must include the pension scheme
- Contracts must include the salary scale and steps
- Contracts must include additional benefits information
- Employees must not be able to cancel or edit contacts of other employees (unless they are from HR)
- The individual components of the system need to be scalable
- The system needs to implement microservices
- The system will be built using Java 11, Spring Boot and Gradle
- o Interactions are handled by APIs
- The system must authenticate users using a unique NetID(String) + password
- The system must encrypt passwords and store them safely

Should have:

- Employees should be able to request for documents and certificates
- Employees should be able to request for sick leaves
- o Employees should be able to request for special leaves
- o Employees should be able to request contract termination
- The system should allow for easy integration with other API systems
- o The system should be modular
- The system should have Spring Security

• Could have:

- Roles could have a dedicated set of available scales
- Temporary contracts could be only renewed more than once
- Temporary contracts could last for a maximum of 5 years
- Employees could be promoted after positive advice from the Dean (Need clarification from TA)
- Employees could be able to receive a jump to the next step within the same salary scales every 12 months
- Jumps from one salary scale to the next one could only be done only within a promotion procedure
- Job contracts could start on the 1st or the 15th day of each month.

- HR Employees could notify candidates with a close-to-terminate contract by two months before the end date of the contract.
- Contracts could be extended depending on the conditions/constraints mentioned above.
- Won't have:
 - o Application won't have user interface

Questions for TA:

- Should there be a way for new HR hires/promotions
- "Employees can be promoted after positive advice from the Dean" Clarification
- Further constraints are could have?
- How should employee and HR agree on a modified contract, should employee be notified
- Do sick leaves need to be approved and somehow stored