BCBS-ND

Software Application Developer – Java

- Spend no more than a couple hours putting together a system that keeps track of employee leave/vacation requests. This is not meant to be a completely functional application, but should demonstrate the process, patterns and methods you’d use to construct the functional application. Please submit a partial skeleton project demonstrating one or two areas of focus in addition to a short document describing your initial approach, and potential paths forward, were you to be asked to finish the project.

Initial steps are as follows:

* Design and create a table that can store the leave/vacation request information.
* Information needed is:
  + Employee id – validate against employee table
  + Purpose of time off (vacation, medical leave, etc)(could be free form or drop down)
  + Date of request (todays date)
  + Starting date of leave/vacation
  + Date returning to work
* Create process for employee to login into leave/vacation request system.
* Create process to accept input for employee leave/vacation information.

Potential path forward:

Up to this point, all that has been done is the information for the leave/vacation has been entered into a database table. The next steps might be as follows.

* Create a method to look up and review the information for an employee.
* Create a method to update the information.
* Create a method to delete the information.
* Discuss the possibility of the employee entering the request and having a process where the request is forwarded to their manager for approval/disapproval.
  + Create a method to check the employees leave balance and determine if they have enough for the request.
  + Allow for a manager override if there is not enough accumulated leave for the request.
  + If the request is approved, update the leave/vacation balance.
  + If an existing approved request is cancelled or disapproved, update the leave/vacation balance.
  + All approvals/disapprovals would send a notification to the employee.