CSYE 6200

Concepts of Object Oriented Design

Payroll App

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Payroll Application

- Assignment (Due 11-27-2015)
  1. Design a payroll application with GUI
     - Input All Employee Hire data from CSV file
       – EmployeeID,FirstName,LastName,Address,Phone,
       – Salary/Wage   what does it mean?
         » Salary per year (for any exempt pay category) OR
         » Wage (for any hourly category) OR
         » Zero (for Volunteer)
       – Bonus (applies only to Salary exempt with bonus)
       – PayCategory (describes how pay is calculated)
       – Title
       – BonusPayoutDate (Only for Salary exempt with bonus)

Payroll Application

- ## Assignment (Due 11-27-2015)

  - ### Input All Employee Weekly timesheet data from GUI

    - Date

    - EmployeeID

    - Total Hours worked for the entire week

      - » A Single field is acceptable

Payroll Application

- Assignment (Due 11-27-2015)
  1. Display Employee Payroll and totals
     1. Show all employees paid
     2. Show Total Payroll Payout
     3. Show all Output for timeframe:
        1. November 1 – 30, 2015.
        2. Payday every week or every two weeks

Payroll Application

- Assignment (Due 11-27-2015)
  - Include the following employee types:
    - Use Factory Design Pattern
      1. Student (hourly Part-Time)
      2. Teacher (Salary)
      3. Staff (Hourly Full-Time)
      4. Executive (Salary with Bonus)
      5. Volunteer (pro bono, track hours, no wages)

Payroll Application

- Manage
  - Holiday pay
    1. No Work on Holiday on Thanksgiving Day
    2. All employees (EXCEPT Hourly Part-Time and Volunteer) get paid for holiday

9/7/2015

Payroll Application

- Manage
  - Pay categories:
    - Salary (Exempt)
      1. Fixed pay regardless of hours worked
      2. Yearly salary/52 weeks
      3. No overtime)
    - Hourly Full-Time (Non-Exempt)
      1. Pay based on hourly wage and hours worked
      2. Eligible for Holiday pay
      3. Hourly Part-Time
         1. Same as hourly but NOT eligible for Holiday pay

Payroll Application

- Manage
  - Pay categories:
    - Salaried with Bonus (Exempt)
      1. Same as Salaried but with Bonus pay
         1. Fixed Bonus payout agreed upon hire
         2. Date of Bonus payout fixed upon hire
    - Volunteer Pro Bono
      - Same as hourly but NOT eligible for ANY pay
      - Record all hours worked
      - Pay will always be zero
      - NOT eligible for Holiday pay

Payroll Application

- Output:
  1. Employees for Each Payroll Period
     1. Date, Name, Employee ID, Pay Category, Salary/ Wage, Hours, Bonuses, Total Gross Pay for period
  2. Payroll Total for all Pay Periods
     1. Date, Payroll Total, Employee Total
     2. Example:

Date	Payoll Total	Employees paid
11-6-15	$1,124,548	45

Payroll Application

- Extra Credit
  1. Keep Individual Employee Records
     1. Provide GUI to Display Individual Employee Record by Employee ID
        1. Personal Info: Name, Address, Phone, etc.
        2. Payroll Info
     2. Provide Output to file
        1. Payroll Info
        2. Select Employee Info
        3. Multiple File Formats
           1. XML
           2. JSON

9/7/2015