ABC College

Payroll WEb application

High Level Design Document

Dec – 6th

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# Goal

The goal is to create web application that will calculate correctly the monthly salaries for the college’s employees.

# Description

The project requires to develop an application that should generate and process salaries for employees throughout the college. The web application must allow an Accounts clerk to generate any employee pay slip for any given month. Monthly wages rates, number of working hours, CIT % and health fees are given. The expected result should include employee’s details and correct salary for chosen month.

# Implementation

Software

HTML, CSS, JS for the application implementation

Visual Code – coding editor tool

GitHub – code cloud storage and sharing repository

Word – text editor

Stages of implementation

1. Understanding the project requirements
2. Creating the HLD document, including names of the variables and the logic of the application
3. Coding – HTML, JS
4. QA
5. Coding – validation rules
6. QA
7. CSS – prettifying the interface
8. QA
9. Submission

# Internal logic

|  |  |  |  |
| --- | --- | --- | --- |
| Group name | Regular staff | Faculty staff |  |
| fixedSalary | Positive integer | n/a | /\* manual input\*/ |
| hours | 160 for full month or actual | Teaching hours | /\* manual input\*/ |
| staffCode | R or r | F or f | /\* manual input\*/ |
| facultyCode | n/a | M or B | /\* manual input\*/ |
|  |  |  |  |
| grossSalary | If hours=160  grossSalary = fixed  if hours <160  grossSalary=hours\*fixed/160  else  grossSalary=fixed + (hours-160)\* 2\* fixed/160 | If facultyCode= “M”  grossSalary: hours \* 175 + 1500  else  grossSalary: hours \* 100 + 600 | \*/calculation\*/ |
|  |  |  |  |
| CIT | If grossSalary >2500  CIT = 0.25 (grossSalary - 2500)  else  CIT=0 | If grossSalary >2500  CIT = 0.25 (grossSalary - 2500)  else  CIT=0 | \*/calculation\*/ |
| heathFee | If grossSalary >3000  heathFee = 33  else  heathFee=19.2 | If grossSalary >3000  heathFee = 33  else  heathFee=19.2 | \*/calculation\*/ |
| netIncome | grossSalary-CIT-heathFee | grossSalary-CIT-heathFee | \*/calculation\*/ |

# Required input interface:

Validation rules

Positive integer 0-100000

Dropbox M or B (for F only)

Dropbox – R or F

Positive integer 1-300

Dropbox

Dropbox

Text field

N1234567 or n1234567

Calculate

Payroll calculation interface

For regular staff

Fixed salary

Faculty staff code

M for Master and B for Bachelor

R for regular and F for faculty

Employee type

Monthly working hours:

Month of report:

Month

Department:

Please enter department name here

Please enter full name here

Employee full name:

N followed 7 digits personal number

Employee number:

# Expected results­­­

Payroll net income report for Inna Manova

Employee number: n01384347

Employee type: Faculty Master

Monthly hours: 198

Gross Salary: $37150

CIT: $8662.5

Health Fee: $33

Total deductions: $8695.5

Net income for December is: **$28454.5**