PAYROLL WEB APPLICATION

HIGH LEVEL DESIGN DOCUMENT
DEC – 6TH

INNA MANOVA N01384347

Table of Contents

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
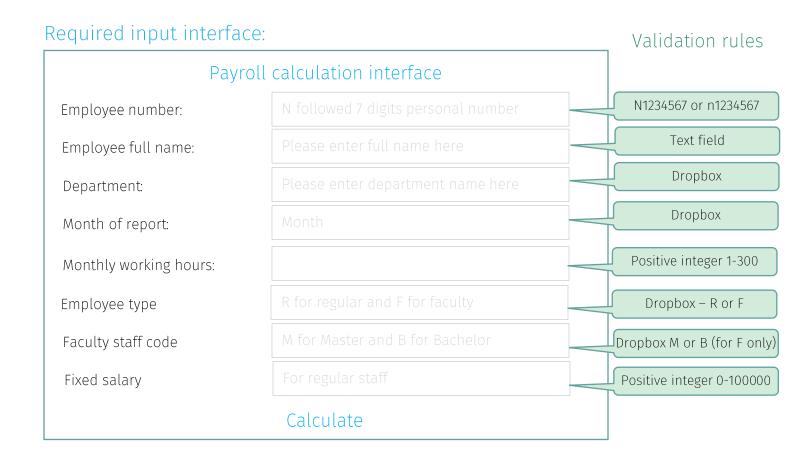Word – text editor

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
		If facultyCode= "M"
		    grossSalary: hours * 175
		+ 1500
		else
			/calculation/

	else grossSalary=fixed + (hours-160)* 2* fixed/160	grossSalary: hours * 100 + 600	

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

Payroll calculation interface

Field	Input	Validation rule
Employee number:	N followed 7 digits personal number	N1234567 or n1234567
Employee full name:	Please enter full name here	Text field
Department:	Please enter department name here	Dropbox
Month of report:	Month	Dropbox
Monthly working hours:		Positive integer 1-300
Employee type	R for regular and F for faculty	Dropbox – R or F
Faculty staff code	M for Master and B for Bachelor	Dropbox M or B (for F only)
Fixed salary	For regular staff	Positive integer 0-100000

Calculate

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