myob

THE CHALLENGE: HR PAYROLL SYSTEM

Your payroll system will require password protection. When the user has logged in, they can then enter payslip details for an employee. Once these have been entered, a preview should be displayed showing the calculated values. Once these values have been agreed, there should be a way to save the payslip details to the backend.

The calculation details will be the following:

- pay period = per calendar month
- gross income = annual salary / 12 months
- income tax = based on the tax table provided below
- net income = gross income - income tax
- super = gross income x super rate
- pay = net income - super

Notes: All calculation results should be rounded to the whole dollar. If >= 50 cents round up to the next dollar increment, otherwise round down.

The following rates for 2012-13 apply from 1 July 2012.

Taxable income	Tax on this income
0 - $18,200	Nil
$18,201 - $37,000	19c for each $1 over $18,200
$37,001 - $80,000	$3,572 plus 32.5c for each $1 over $37,000
$80,001 - $180,000	$17,547 plus 37c for each $1 over $80,000
$180,001 and over	$54,547 plus 45c for each $1 over $180,000

The tax table is from ATO: https://www.ato.gov.au/Rates/Individual-income-tax-for-prior-years

Example Data

If an employee's annual salary is $60,050 with a super rate of 9%, how much will this employee be paid for the month of March?

- pay period = Month of March (01 March to 31 March)
- gross income = 60,050 / 12 = 5,004.16666667 (round down) = 5,004
- income tax = (3,572 + (60,050 - 37,000) x 0.325) / 12 = 921.9375 (round up) = 922
- net income = 5,004 - 922 = 4,082
- super = 5,004 x 9% = 450.36 (round down) = 450
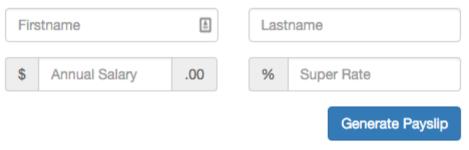- Pay = (4,082 - 450) = 3632

TECHNICAL REQUIREMENTS

- The program has two parts:
    - Frontend web app can be written using any framework.
    - Backend server has been provided.
- Login screen that can be styled in any way you feel is appropriate.
- When the 'Generate Payslip' button is clicked the user is shown the generated payslip which is computed on the client side.
- When the 'Pay' button is clicked. The user information is sent to the node server where the payslip information is stored on the server for audit purposes.
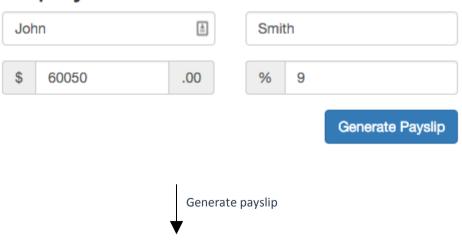
Note! Feel free to use any packages.

WIREFRAMES

Empty Form

Completed Form

Generate payslip

Generated Output

Payslip

John Smith

Pay Date	30 March 2013
Pay Frequency	Monthly
Annual Income	$ 60,050.00
Gross Income	$ 5,004.00
Income Tax	$ 871.00
Net Income	$ 4,082.00
Super	$ 450.00
Pay	$ 3,632.00

Pay

As part of your solution:

- List any assumptions that you have made in order to solve this problem.
- List the reason for choosing any frameworks.
- Provide instructions on how to run the application.
- Provide a test harness to validate your solution.
- You can extend the backend framework provided or work in a new project.

We wish you the very best of luck and thank you once again for your interest at MYOB!