

# The Implementation of Flowcasting between CPGA and Sam's Club

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## *Thecasesolutions.com* *System Implementation*

Systems implementation is the construction of the new system and the delivery of that system into production (that is, the day-to-day business or organization operation).



### *Testing the System*

Testing is the process of evaluating a system or application to check whether the application meets all requirements of the client and to detect the errors.

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### *Coding*

The goal of the coding phase is to translate the design of the system into code in a given programming language. For a given design, the aim of this phase is to implement the design in the best possible manner.

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### *Thecasesolutions.com* *Structure Chart*

A Structure Chart (SC) in software engineering and organizational theory is a chart which shows the breakdown of a system to its lowest manageable levels. They are used in structured programming to arrange program modules into a tree. Each module is represented by a box, which contains the module's name.





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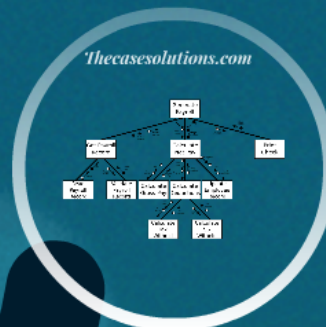




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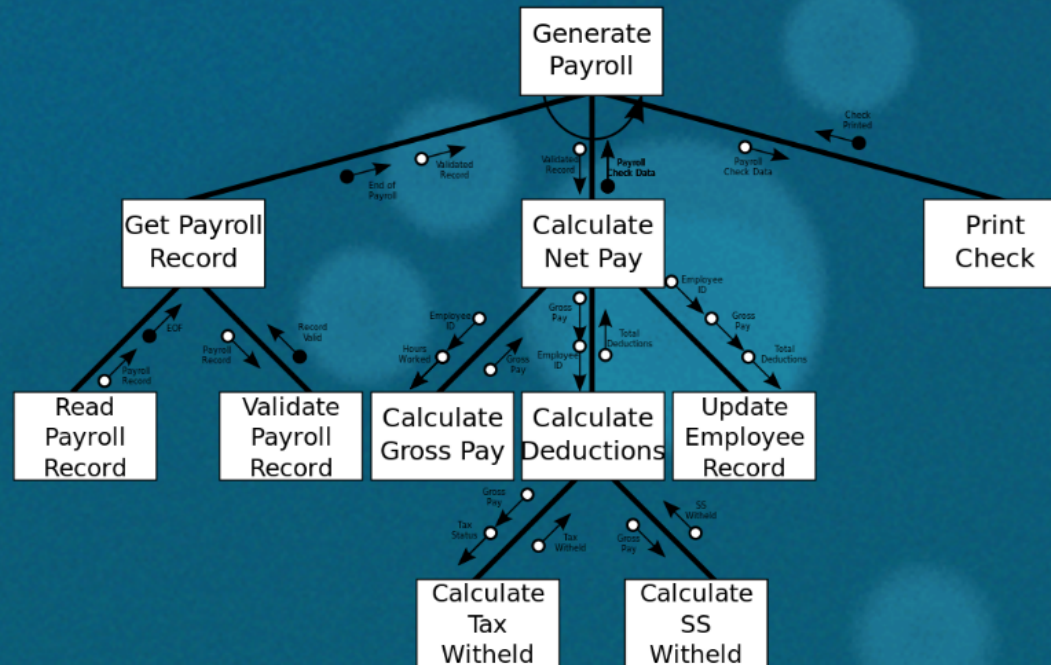


The flowchart illustrates the process of generating payroll. It begins with the 'Generate Payroll' module, which branches into 'Get Payroll Record', 'Calculate Net Pay', and 'Print Check'. 'Get Payroll Record' leads to 'Read Payroll Record', which then leads to 'Validate Payroll Record'. 'Validate Payroll Record' has two paths: one for 'Record Valid' leading to 'Calculate Gross Pay', and another for 'Record Invalid' leading to 'End of Payroll'. 'Calculate Gross Pay' leads to 'Calculate Deductions', which then leads to 'Update Employee Record'. 'Calculate Deductions' also leads to 'Calculate Tax Withheld' and 'Calculate SS Withheld'. 'Calculate Tax Withheld' and 'Calculate SS Withheld' lead to 'Calculate Net Pay'. 'Calculate Net Pay' leads to 'Print Check'. 'Print Check' leads to 'Check Printed', which then leads back to 'Generate Payroll'. 'Generate Payroll' also has a direct path to 'Check Printed'.

```

graph TD
    GeneratePayroll[Generate Payroll] --> GetPayrollRecord[Get Payroll Record]
    GeneratePayroll --> CalculateNetPay[Calculate Net Pay]
    GeneratePayroll --> PrintCheck[Print Check]
    GeneratePayroll --> CheckPrinted[Check Printed]
    CheckPrinted --> GeneratePayroll

    GetPayrollRecord --> ReadPayrollRecord[Read Payroll Record]
    ReadPayrollRecord --> ValidatePayrollRecord[Validate Payroll Record]
    ValidatePayrollRecord -- Record Valid --> CalculateGrossPay[Calculate Gross Pay]
    ValidatePayrollRecord -- Record Invalid --> EndOfPayroll[End of Payroll]
    CalculateGrossPay --> CalculateDeductions[Calculate Deductions]
    CalculateDeductions --> UpdateEmployeeRecord[Update Employee Record]
    CalculateDeductions --> CalculateTaxWithheld[Calculate Tax Withheld]
    CalculateDeductions --> CalculateSSWithheld[Calculate SS Withheld]
    CalculateTaxWithheld --> CalculateNetPay[Calculate Net Pay]
    CalculateSSWithheld --> CalculateNetPay[Calculate Net Pay]
    CalculateNetPay --> PrintCheck
  
```







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