**User story:**

Jie's main goal as the finance manager at Antoine's Landscaping is to make their workers' monthly payroll procedure less complicated. Jie hopes to do this by making efficient use of the Payroll Processing System. Antonie`s Lanscaping offering three types of employment**. Employees can be employed as Fixed-Term Contractor (four months), Yearly Contractor (1 or more years depending on contract), or Permanent Employee**. This entails managing several payroll-related tasks, such as recording employee hours and calculating deductions, all while preserving accuracy and productivity throughout.

Jie should be able to choose which employee groups to work on their payroll processing, enter their overtime and deductions, and then double-check and validate the numbers.

**Activity Diagram**

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**Systems Use Case Specification:**  
**Use Case Name: "Process Payroll for employees"**

**Brief Description:** This complex use case describes how the "Finance Manager" (Jie) processes the monthly payroll for employees at Antoine's Landscaping.

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| --- | --- | --- | --- |
| **Use Case Name** | Process Payroll for employees | | |
| **Triggering Event** | Salary payments are due and payrolls have to be sent | | |
| **Brief Description** | Finance Manager Jie processes the monthly payroll for employees at Antoine's Landscaping. | | |
| **Actors** | Finance Manager Jie | | |
| **Related Use Cases** | Update Payroll, Delete Payroll | | |
| **Preconditions** | Jie is logged into the company's Payroll Processing System.  Employee records and wage information are up to date in the system. | | |
| **Post Conditions** | Payroll processing is completed and employees received their salaries. | | |
| **Flow of activities** | **Actor** | | **System** |
|  |  | Selects the option to process the monthly payroll | Displays contract types and prompts user to select an employee group to process their payroll |
|  |  | Selects a contract type | Displays the list of all employees in the selected group of employees along with their relevant wage details prompts user to confirm to proceed. |
|  |  | Confirms selected group and proceed. | Prompts user to select an employee to start processing their payroll. |
| **LOOP STARTS** |  | Selects an employee from the list | Displays the areas to be filled and prompts user to fill employees working hours, overtime, and deduction fields. |
|  |  | Fills working hours, overtime, and deductions for each employee in the selected group. | Verifies the entered information, calculates the earnings based on their wage, hours worked, and any applicable bonuses. Displays the calculated areas and prompts for confirmation. |
|  |  | Confirms employee’s payroll details and saves their payroll. | Saves the current employee’s information and prompts user to choose another employee or save and exit. |
| **Loop Ends** |  | Selects the option **to process** the monthly payroll until all employees salaries are entered for the selected group or **to save and exit**. | Generates a payroll report that summarizes the earnings and deductions for the selected employee group. Prompts user to review and confirm report. |
|  |  | Reviews the payroll report for accuracy and confirms that the calculated amounts match the expected payments. | Records the payroll report and the amounts that will be paid to each employee. |
| **Exception Conditions** | Jil cancels the processing the payroll. | | |

**Class Diagram**

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**Sequence Diagram**

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Main Menu

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