**Scenarios:** view the attendance reports

**Use case:** View Reports

|  |  |
| --- | --- |
| **Class:** Report | |
| **Responsibilities:** | **Collaborators:** |
| Manage general attributes of the reports | StartDate, EndDate |
| Manage active report | AbstractReport |

|  |  |
| --- | --- |
| **Class:** AbstractReport (extends AbstractTableModel) | |
| **Responsibilities:** | **Collaborators:** |
| Manage attributes of the report | Report, CreationTime |
| Generate the report | <Visit> |

|  |  |
| --- | --- |
| **Class:** ReportVisits (extends AbstractReport) | |
| **Responsibilities:** | **Collaborators:** |
| Manage attributes of the report | Report, CreationTime |
| Return the list of customers’ visits | <Visit> |

|  |  |
| --- | --- |
| **Class:** ReportCustomers (extends AbstractReport) | |
| **Responsibilities:** | **Collaborators:** |
| Manage attributes of the report | Report, CreationTime |
| Calculate statistics on customers based on their visits | <Visit> |
| Return statistics on customers’ visits | <CustomerStatistics> |

|  |  |
| --- | --- |
| **Class:** CustomerStatistics | |
| **Responsibilities:** | **Collaborators:** |
| Keep aggregated info about customer’s visits | Customer, CountVisits, AvgTime, TotalTime |

|  |  |
| --- | --- |
| **Class:** PeriodStatistics | |
| **Responsibilities:** | **Collaborators:** |
| Manage attributes of the period | HourDay, WeekDay |
| Return statistics about the period | MinimumLoad, MaximumLoad, AverageLoad |

|  |  |
| --- | --- |
| **Class:** ReportPeriods (extends AbstractReport) | |
| **Responsibilities:** | **Collaborators:** |
| Manage attributes of the report | Report, CreationTime |
| Calculate statistics for periods based on the visits | <Visit> |
| Return statistics about the period | <PeriodStatistics> |

**Common classes** (used in other scenarios and use-cases):

|  |  |
| --- | --- |
| **Class:** Customer | |
| **Responsibilities:** | **Collaborators:** |
| Manage customer contact details | Familty, CustomerPhone, CustomerPhoto, |
| Manage permissions | Skill |
| Manage status | CustomerStatus |

|  |  |
| --- | --- |
| **Class:** Family | |
| **Responsibilities:** | **Collaborators:** |
| Manage family contact details | FamilyHead (of Customer class), FamilyAddress, FamilyPhone |
| Manage family members | <Customer> |
| Manage status | FamilyStatus |

|  |  |
| --- | --- |
| **Class:** Employee | |
| **Responsibilities:** | **Collaborators:** |
| Manage operator’s ID | Login, Password, FirstName, LastName |
| Manage status | EmployeeStatus (admin or operator) |

|  |  |
| --- | --- |
| **Class:** Visit | |
| **Responsibilities:** | **Collaborators:** |
| Log a customer’s visit | Customer, CheckInTime, CheckOutTime, Operator |
| Keep info about incidents | IncidentDescription, Operator, Customer |