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| Class | Description |
| Swimmer | Swimmer contains all necessary information regarding pool members necessary for look-up, identification, and pool safety. |
| Household | Household contains a group of pool members belonging to the same address to help organize queries and look-up. |
| Visit | Visit documents individual occurrences of when a swimmer checked into and out of the pool. |
| CustomerStatistic | CostumerStatistic keeps working calculations concerning statistics of each swimmer’s overall pool usage. Total visits, average visit time, and total visit time are tracked for each swimmer. |
| PeriodStatistic | PeriodStatistics keeps working calculations concerning the basic statistics of aggregate pool usage. The hours of maximum and minimum visitation are calculated for each day as well as the daily average. |
| Status | Status tracks whether or not a swimmer is to be denied pool entry and stores any notes regarding denials. |
| Skill | Skill documents the overall swimming proficiency of the swimmer as well as any tests they have passed or special requirements for safety given their age or swimming ability. |
| Pool | Pool manages a working list of which swimmers and employees are checked into the pool. |
| Role | Role describes an employee’s position and grants them administrative privileges. Privileges give employees managerial permissions so they may issue denials, view statistics, and add/delete/edit profiles. |
| Employee | Employee contains employee log-in information and maps employees to roles. |
| Report | Report is subclass of AbstractReport and superclass of all other reports. It contains the start and end dates that will define the period of the report as well as tabular data in the form of the abstractreport attribute. |
| AbstractReport | AbstractReport is a java class used to contain data in tabular formats that may be easily abstracted into tables of the view class. It is extended into Report in our project. |
| ReportSearch | ReportSearch extends Report and provides a list of swimmers matching specific criteria entered by the user. The criteria may be confined to a particular attribute (name or DOB) or it may be a general search through all swimmer attributes. |
| ReportVisits | ReportVisits extends Report and provides check-in/check-out data given a specific start and end date. It may be applied to a particular swimmer or include all swimmers. |
| ReportCustomers | ReportCustomer extends Report and provides average visitation time, total visitation time, and visit count data given a specific start and end date. |
| ReportPeriods | ReportPeriods extends Report and provides daily maximum and minimum visitation data as well as daily average data given a specific start and end date. |
| ReportActiveSwimmers | ReportActiveSwimmers extends Report and provides data tallying the number of swimmers active at the pool in hourly increments given a specific start and end date. |