IST311 (Fall 2018)

Group 2

September 4, 2018

Pool Access System

# Introduction

# User Stories

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| User Story # | User Story |
|  | Pool operator (PO) can find a customer in the database. PO types-in a part of the user’s name, address, or a phone number into the search field. The system displays top matches from the database of registered pool customers (Search Form). The Search Form includes customer’s personal info (photo, name, age, phone) as well as information on entrance permission and other constraints imposed on the Customer (such as requires adult supervision) if any. |
|  | PO can see detailed information about one customer. The system displays the form with the detailed information about the customer (Detailed Form), including a photo, full name, date of birth, allergies, emergency contact information, and swimming ability. |
|  | PO can check-in a customer by clicking the respective button either on the Search Form or on the Detailed Form. In turn, the system logs the event and adds the customer to the list of current swimmers. |
|  | Pool Administrator (PA) can add a new customer to the database of registered pool customers. The system displays the Detailed Form. PA has to fill in all required fields and the system has to validate the form before storing the new record in the database. |
|  | PA can edit all customer-related information. The system displays the Detailed Form in the edit mode and updates the record only after successful validation. |
|  | PO (or PA) can view the current swimmers in the pool. The system displays information on all swimmers who have checked-in but have not checked-out in a special form (Status Form). |
|  | PO can check-out a single customer either on Status Form, Search Form, or Detailed Form. The system logs the event and eliminates the customer from the list of current swimmers. |
|  | In the Reports section, PA (or PO) can see the list of all Visits during the specified period of time. The system displays the report (Visits Report) according to the specified Start & End dates. |
|  | In the Reports section, PA (or PO) can see the list of all Customers during the specified period of time. The system displays the report (Customers Report) according to the specified Start & End dates. |
|  | In the Reports section, PA (or PO) can see the attendance statistics for the specified period of time. The system displays the report (Attendance Report) according to the specified Start & End dates. PA has to select the statistic he is interested in (minimum, average, or maximum load; total count). The system shows the report as a table, where columns represent days of the week, and rows represent hours of the day. Also, the table has aggregates for each row and each column. |

# Product Backlog Stories

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| Backlog # | User Story # | Backlog Item Description |
| 1. | 1. | Query database with search term/s according to the Search Form data filled out |
| 2. | 1. | Parse customer(s) account matching search query with photo, name, age and phone |
| 3. | 1. | Show relevant customer profile on customer selected |
| 4. | 2. | Display results from query |
| 5. | 2. | Query database for specific customer information stored in account |
| 6. | 2. | Parse query results into Detailed Form with customer’s photo, full name, date of birth, allergies, emergency contact information, and swimming ability. |
| 7. | 3. | Allow “Check-in” functionality from Search Form and Detailed Form |
| 8. | 3. | Write check-in event into system logs |
| 9. | 3. | Update customer in current swimmers list |
| 10. | 4. | “Add new” customer functionality depending on user privilege level using Detailed Form |
| 11. | 4. | Capture and store customer information |
| 12. | 4. | Validate form completion and data |
| 13. | 4. | Insert new customer into database |
| 14. | 5. | Enable Detailed Form to be editable depending on user privilege level |
| 15. | 5. | Capture new data from user |
| 16. | 5. | Validate form completion and data |
| 17. | 5. | Update customer in database |
| 18. | 6. | Query database for current swimmers form, which displays customers who are currently checked-in |
| 19. | 6. | Parse query results into Status Form |
| 20. | 6. | Give “refresh” capabilities for up-to-date results |
| 21. | 7. | Add “Check-out” functionality to Status Form, Search Form, or Detailed Form. |
| 22. | 7. | Write check-out event into system logs, tracking relevant information such as check-in time, check-out time, and number of swimmers in group |
| 23. | 7. | Delete customer from current swimmers list |
| 24. | 8. | Reports screen allows all users to build a query with information such as, customer, date and time range |
| 25. | 8. | Validate and capture query terms |
| 26. | 8. | Execute query into appropriate database |
| 27. | 8. | Parse query results into Visits Report to view the given customer’s number of visits within the given time range |
| 28. | 9. | Reports screen allows all users to build a query specifying a time range (start and end date/time) |
| 29. | 9. | Validate and capture query terms |
| 30. | 9. | Execute query into appropriate database |
| 31. | 9. | Parse query results into Customers Report to view all customers who visited the pool within the given dates |
| 32. | 10. | Reports screen allows all users to build a query specifying a time range (start and end date/time), a selection of either minimum, average, maximum, or total (referring to current swimmers) |
| 33. | 10. | Validate and capture query terms |
| 34. | 10. | Execute query into appropriate database |
| 35. | 10. | Parse query results into downloadable CSV Attendance Report, displaying days of week as column names, hours of day as rows, and totals. |

# Sprints

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| Sprint #1: from <date> to <date> | | | | | |
| Backlog # | **Task Description** | **Story Point Estimate** | **Story Point Actual** | **Status\*** | **Comments** |
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