Sports Facility

Project Report

V1.0

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Functional and Non-Functional Requirements

Requirements:

Req1: New users can register

Req2: A Manager can create an employee account

Req3: A Manager can assign employees to stations

Req4: An Employee can manage service queue

Req5: A customer can view ice rink reservation times and dates

Req6: A customer can reserve a spot in the facility

Req7: An employee can view their schedule

Req8: Returning users obtain secure logins

Req9: Customers are shown upon logging in what interests them (recently view items or purchases).

Req10: Returning users can see recently viewed rink times (must sign in).

Req11: Admins monitor new user entries.

Functional Requirements

1. Web Registration
   1. Description: This shall allow the customers and employees to create a personal account with a registration page.
      1. The customers and employees will provide a web page that directs the customers and employees to a registration page.
      2. The system provides text forms allowing the customers and employees to enter and submit their account information. (username and password)
      3. The system will compare customers and employees credentials with the ones that are already created in the secure database.
         1. The system checks for valid credentials
      4. The system will alert if the customer or employee already exist.
2. Login
   1. Description: After the customer or employee are registered, they are able to login to their account
      1. The system shall compare past logins with customers and employee
         1. The system will make sure they have the correct credentials when logged in.
         2. The website has three authorization levels, Customer, Employee, Admin
         3. Upon unauthorized logins detected, the system will notify you through email that there is a potential security risk to both users.
         4. In case someone forgets their password, there will be an option to create a new one via email.

Non-Functional Requirements

1. Web Registration
   1. Description: This will let customers and employees create a personal account from a registration page.
      1. The system uses use a secure MySQL database to store customer and employee account registration data.
      2. The system will save the customer and employee registration data in the secure database with no lost data.
      3. The system shall hash user passwords so they are stored secretively
2. Login Page
   1. Description: The customers, once registered, will be able to log in to the site to see rink availably
      1. The system will allow previously-registered customers and employees to log in to the site with an already registered login.
   2. The employees, once registered, will be able to log in to the site to see rink availably and be able to manage multiple services.
      1. The system will allow previously-registered customers and employees to log in to the site with an already registered login.
3. Rink Reservation
   1. Description: the website will provide a calendar where a rink times can be reserved.
   2. The website will provide a search bar in order to find a later date.
   3. The website shall be available for 99.98% of the time for customers, employees and admins.