



**LAKELAND**  
UNIVERSITY

# Spa and Wellness Center System Specifications

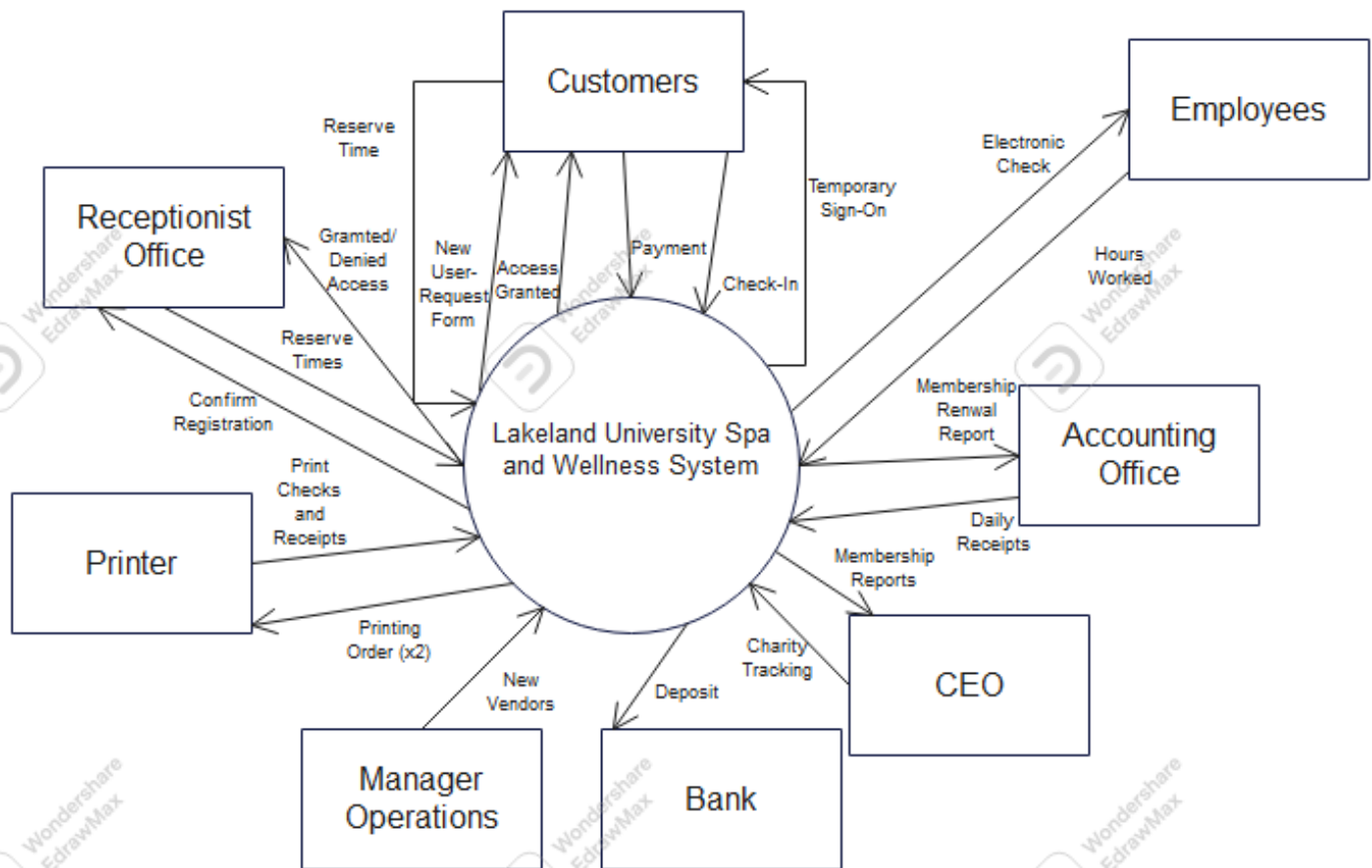
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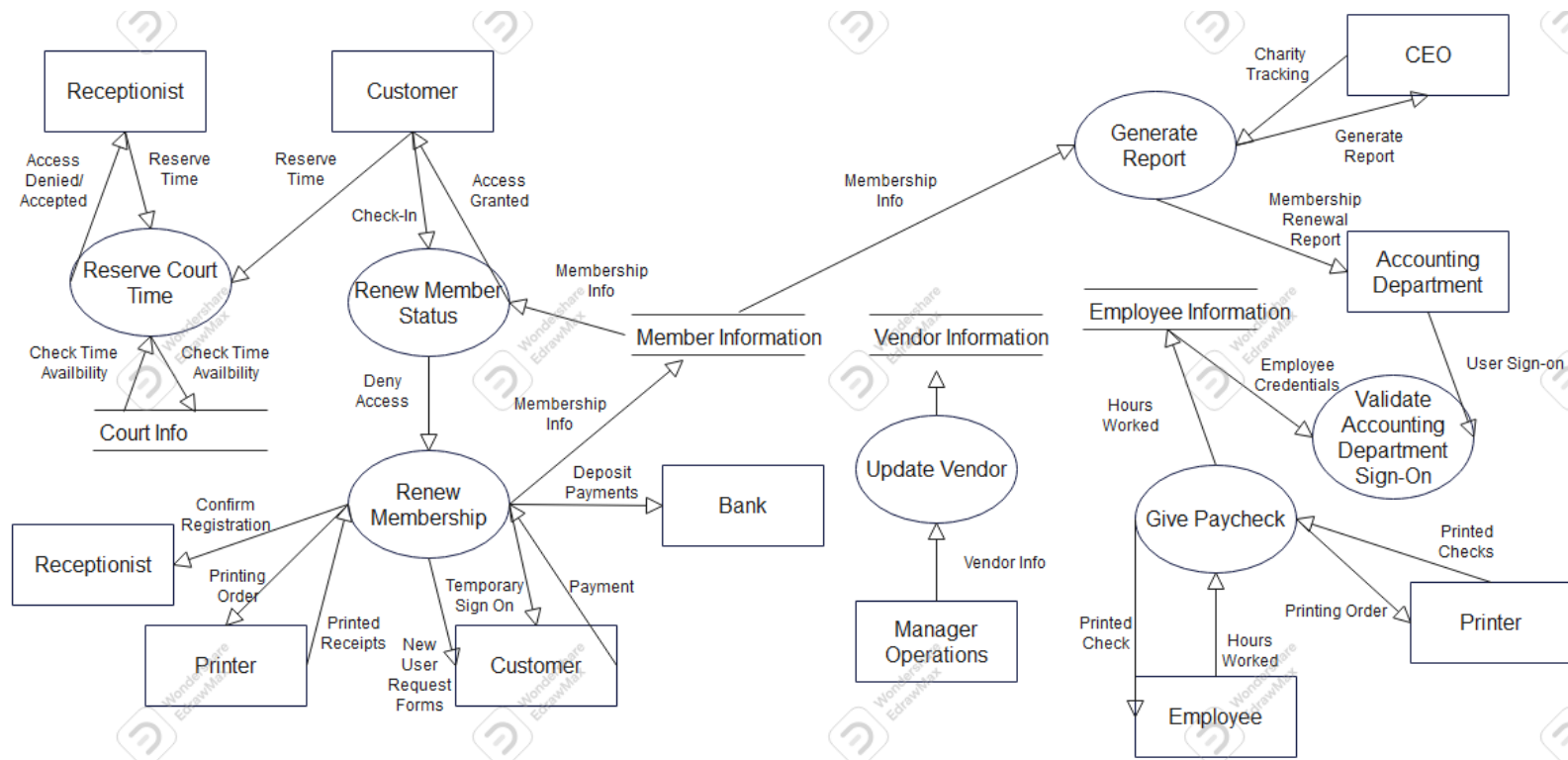
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## Context-Level Diagram



## Data Flow Diagram



## Process Specifications

1. Reserve Court Time - This process is able to aid Lakeland Health and Wellness Spa in booking times for their courts. The receptionist or customer may be able to book courts depending on if there is availability during the times that the user would like. After checking the court times available, it will notify the user who is booking it to provide a confirmation of time or deny access.
2. Renew Member Status - This process checks to see if the member who is checking into a spa is a current member. The customer checks into the spa and is verified from a member information file. They are then either granted access or denied access.
3. Renew Membership - In this process, the customer is renewing their membership. They are providing a payment to the system which will then issue them a new user request form and a temporary sign-on. Then, the printer receives a printing order to print the customer receipt and the customer is granted online access to their receipt with the new user sign-on. After fully renewing a membership, the receptionist confirms their registration. The online payment is successfully deposited into the bank and the new membership info is stored in a member information file.
4. Generate Report - This process allows multiple branches of the company to generate personalized reports based on interest. The CEO will be able to track their own charity donations and greetings, and generate a report based off of that information that they put into the new system. It also allows the CEO generate various types of membership reports with the data being gathered from a member information file. As for the Accounting Department, they are able to generate membership renewal reports.
5. Validating Accounting Department Sign-On - This process will validate an Accounting Department employee sign-on by checking whether or not their information is stored in an employee information file.
6. Give Paycheck - In this process, the employee is able to receive their check. The employee enters the amount of hours they worked in to the system and that number is passed on to their employee file. After recording the hours worked, the system sends a printing order to the printer. It then sends the check to the employee.
7. Update Vendor - This process will allow the Manager of Operations access to update vendor information. The manager should be able to put into the vendor information and the process will store it into a vendor information file for future use.



## Functional and Non-functional Requirements

### Functional Requirements:

- 1.The system must be able to renew memberships for their customers
- 2.The system must be able to allow customers to reserve courts
- 3.The system must be able to check member status
- 4.The system must be able to generate reports
- 5.The system must be able to validate employee sign-on
- 6.The system must be able to give checks to the employees
- 7.The system must be able to update vendor information

### Non-functional Requirements:

- 1.The system allows for customers to renew their memberships online
- 2.The system is able to allow the customers to reserve courts online
- 3.The system is able to let employees put in their hours in electronically
- 4.The system gives the option to let employees receive their check electronically
- 5.The system allows for reports to be generated immediately
- 6.The system allows for the CEO to send money directly to charity
- 7.The system allows for money to be deposited directly into the company's banking account
- 8.The system issues a temporary sign-on after a confirmation of payment
- 9.The system issues a new user request form immediately after confirmation of payment
- 10.The system allows for vendor information to be updated immediately
- 11.The system will allow for customers to receive a receipt after payment
- 12.The system will allow for a membership application to be online



# Lakeland University Health Spa and Wellness Center Entry Screen

[Log In](#)

## Lakeland University Spa and Wellness System Spa Services

[Reserve Court Time](#)[Check Member Status](#)[Renew Membership](#)[Update Vendor](#)[Employee  
Timecard/Payment](#)[Generate Reports](#)[Membership  
Application](#)

## Data Dictionary

### **Member Data: [Title]: [Description], [Data Type], [Character Length]**

#### Personal Data:

1. First Name: [User First Name], [varchar], [30]
2. Last Name: [User Last Name], [varchar], [30]
3. Middle Initial: [User Middle Initial], [char], [1]
4. Date of Birth: [User Birthdate], [date], [MM/DD/YYYY]
5. Social Security Number: [User Soc. Sec Num], [varchar], [9]
6. Scan Code: [User Scan Code], [varchar], [25]
7. Address: [User House/Apartment Number], [varchar], [10]
8. Street: [User Street], [varchar], [50]
9. City: [User City], [varchar], [50]
10. State: [User State], [varchar], [50],
11. ZIP: [User ZIP Code], [varchar], [9]

#### Contact Information:

1. Phone Number: [User Number], [varchar], [12]
2. Email Address: [User Email], [varchar], [50]
3. Work Phone: [User Work Number], [varchar], [12]

#### Family Members:

1. Name: [Family Name], [varchar], [50]
2. Age: [Family Age], [int], [3]
3. Date of Birth: [Family Birthdate], [date], [MM/DD/YYYY]
4. Scan Code: [Family Scan Code], [varchar], [25]

#### Membership Type:

1. Type of Membership: [User Membership Type], [bool]
2. Payment: [User Payment Type], [Currency]





## Data Dictionary (Continued)

### Employee Data: [Title]: [Description], [Data Type], [Character Length]

#### Personal Data:

1. First Name: [User First Name], [varchar], [30]
2. Last Name: [User Last Name], [varchar], [30]
3. Middle Initial: [User Middle Initial], [char], [1]
4. Date of Birth: [User Birthdate], [date], [MM/DD/YYYY]
5. Social Security Number: [User Soc. Sec Num], [varchar], [9]
6. Scan Code: [User Scan Code], [varchar], [25]
7. Address: [User House/Apartment Number], [varchar], [10]
8. Street: [User Street], [varchar], [50]
9. City: [User City], [varchar], [50]
10. State: [User State], [varchar], [50],
11. ZIP: [User ZIP Code], [varchar], [9]

#### Contact Information:

1. Phone Number: [User Number], [varchar], [12]
2. Email Address: [User Email], [varchar], [50]
3. Work Phone: [User Work Number], [varchar], [12]

#### Employee Information:

1. Employee Username Sign-On: [Employee Username], [varchar], [25]
2. Employee Username Password: [Employee Password], [varchar], [25]
3. Employee Department: [Employee Department], [varchar], [25]
4. Employee Job Title: [Employee Title], [varchar], [30]



## Data Dictionary (Continued)

### **Vendor Data: [Title]: [Description], [Data Type], [Character Length]**

#### Organization Data:

1. Organization Name: [Org. Name], [varchar], [40]
2. Address: [User House/Apartment Number], [varchar], [10]
3. Street: [User Street], [varchar], [50]
4. City: [User City], [varchar], [50]
5. State: [User State], [varchar], [50],
6. ZIP: [User ZIP Code], [varchar], [9]
7. Product: [Org. Product], [varchar], [50]

#### Contact Information:

1. Phone Number: [User Number], [varchar], [12]
2. Email Address: [User Email], [varchar], [50]



## Executive Summary

Lakeland University Health Spa and Wellness Center implemented a brand new system is able to help all parts of the organization work harmoniously with one another. It is able to renew memberships for their customers, allow customers to reserve courts, check member status, generate reports, validate employee sign-ons, give automated checks to employees, and update vendor information. These capabilities should be generally help ease the workload of everyone throughout the workplace.

To make the tasks reduced to an even easier level, multiple types of reports can be generated. Additionally, members can now renew their memberships and reserve court times online. They can also find a membership application and Employees can interact with the system to put in their timecard hours and also receive their paycheck electronically. Charity tracking has also been implemented to give donations directly and mark timecard hours. There have also been a lot of implementations added to aid the Accounting Department and Manager in successfully performing their duties.



# Appendix

