

SMART CARD ACCESS FOR CLUB MEMBERS

Key Project Advantages

1. Advanced readers being provided, Some are card & Pin and others are only cards.
2. The readers will be programmed to accept various features of the club along with the access control features.
3. The reader with controller will have has far great memory space of up to 50,000 records, .
4. The user interface platform is SQL based, which allows for cost effective deployment across multiple locations, and centralized management

Summary

This document proposes our plan, our time estimate and your approval for the deployment of Club management solution using an experienced team from Adon System & Solutions Pvt Ltd. Our online Solution is built using the latest technologies available with appropriate security levels.

The approach that the proposal takes is to first present what Adon System understands of stated requirements, followed by a detailed approach criterion of how we will service you and would proceed with the project. The proposal details each of these areas and highlights the strategies to deliver our required service.

Requirement Specifications

Based on the experience we have for the club management software we have tried to define the scope of the work to the most accurate level possible and the various options that we can work towards. We will be bringing that out in various points as below:

1. The solution will work with Smart Card / RFID card technology to identify members, provide access / restrict access to various facilities in the club and allow only valid members and their dependents to use the facilities of the club.
2. The Club will work as virtual cash less (at point of sale) meaning Cash will be collected at one place and Member need to refill the cards before using any facility .
3. Main functionality of portal is dynamic portal running on Microsoft Platform
4. The solution will allow the members, their dependents and guests to be issued cards where the following information will be displayed at the main gate.
 - Member ship number and its validity period.
 - Facility access points and their validity.
 - The card will also have a photograph and essential details printed on its front.
5. Our solution will interact with both the smart cards and the clubs main system to provide the following functionality:
 - Provide access to active members, while inform the club if any memberships have expired. when guests come, the club can issue them temporary cards.
 - Optionally if the member forgets to bring his/her card, he/she can enter the membership number or PIN (personal Identification number .
 - Update records each time the member uses facilities such as the Gym, squash Courts, Billiards etc., and reduce the points on the card.
 - Reduce or increase the monetary amount on the wallet whenever a member/dependent/guest makes a purchase at the club; or pays additional money at the cashier.
 - The system will also allow only authorized members to access Bar / Restaurant.

A. Smart Cards and Hardware

1. Smart Cards

The cards that will be having RFID chips that can be read with appropriate readers only. The cards will be fused with the members photograph and other essential information as finalized by the club. Each member will be issued with number of smart cards one each for their family member. In addition extra smart cards will be kept at the club, so temporary cards can be issued to guests. These cards can be reused. The Colour Coding for different membership will be given by the club.

2. Smart Card Readers:

The primary readers will have the ability to register visitors (members/employees/guests) based on the chip (person has to bring the card in close proximity to reader). These readers will also be placed at the main gate, to allow access to the club area. The readers will also be placed at the two main entrance/exit points of the club to register individual visitors.

1. For main gate - 2nos , Bar and Restaurant will have card + PIN reader and other place only reader .

These units will also be present at all facilities of the club.

3. Software

The software will be built using Visual Basic as front end, and SQL Server / MSDE as the database. It will have the following functionalities:

RFID card providing following functionalities for the following types of members that use the club:

- Regular Primary Member
- Regular Spouse member
- Regular Dependent Member
- Additional Member (One Month renewable up to six months)

Point (2) Club Main Entrance

The reader will simply validate each member card, display their photograph on a monitor and the membership status (Active/Terminated/Blacklisted) & Validity. The system then marks the Day, Date & Time that the member entered the club.

There will be two monitor displayed back to back one for the members to see and the other for the office people .

Point (3, 4 & 5) Restaurant / Bar / Café

Here the reader will check for the member's Validity, Status, Credit Limit, Outstanding and Balance & display the photograph. If sufficient balance is not there, then the member can go to the cash counter (Front Office) and pay the amount & the System will update the member card through reader/writer.

Point (6) Gym

Here the reader will check member's Validity, Status, Credit Limit, Outstanding and Balance & display the photograph. The reader will check as to how many units of exercise time the member has and if the date of those points is not expired. If the units are there then the writer will simply subtract one unit for each 2 hour of time spent at the gym, and update the server. In case of shortage, the member can simply go to the Front Office and pay for new units. The system will keep a track of the Day, Date & Time that the member used the facility, hence it will be a must for the member to show their card again on exit, and for based on the in and out time the writer will subtract the units from the member. Same system for guests.

Point (7) Tennis Courts

Here the reader will authenticate the member & check as to how many units of playing time the member has and if the date of those points is not expired. If the units are there then the writer will simply subtract one unit for each X hour of time spent on the court, and update the server. In case of shortage, the member can simply go to the Front Office and pay for new units. The system will keep a track of the Day, Date & Time that the member used the facility, hence it will be a must for the member to show their card again on exit, and for based on the in and out time the writer will subtract the units from the member. Same system for guests.

Point (8) Library

Here the reader will check member's Validity, Status, Credit Limit, Outstanding and Balance & display the photograph, in case the user simply wants to read in the library. However if they want to borrow books, then the reader will check the library membership.

Point (9) Swimming pool

Here the reader will check for the member's Validity, Status,. The system then marks the Day, Date & Time that the member uses swimming pool. If card is invalid it will give warning beeps.

Point (10) Cash Counter (Front Office & Accounts)

Here the reader/writer will be used to update all information about members, usage time for facilities based on file imported by CLIENT POS system.

Point (11) Booking of Banquet hall , along with the details as provided by the sports club

Card readers and Writers to be used in the following areas for single entry guests:

Club main entrance

Here if a person entering does not have their card, then the member has to take them to the Front Office, to get them a temporary card (Rewritable) which will be valid only for one day. The card can be updated with member's details. (Main Entrance system should have an option to see the member information by entering the Member Code)

Card readers and Writers to be used in the following areas for multiple entry guests:

Club main entrance

Here if a person entering does not have their card, then the member has to take them to the Front Office, to get them a temporary card which will be valid for the number of days as determined by the club management. The card can be updated with as many facilities that the guest wants to use, based on payment.

Reports:

Based on the usage patterns of guests the following reports can be generated, based on any of the following criteria date range, membership number, type of membership:

- 1) Number of times a guest has entered the club. **Daily, Weekly & Monthly**
- 2) The number of guests that a member has signed. **Daily, Weekly & Monthly**
- 3) The facilities that have been used by the member based on date and time. **Daily, Weekly & Monthly**
- 4) Club usage: total number of guests, dependents, guests that have entered the club. **Daily, Weekly & Monthly**
- 5) Facility usage: total number of hours that were used at any facility by each category; members, dependents, guests. **Daily, Weekly & Monthly**
- 6) Stock report as per the format

4. Integration with Smart Card System

The software would be integrated with the Hardware, to both receive data and for it to send data.

CLUB Team Support:

Software is an ever evolving concept and require technical inputs from developers as well as final users to judge and evaluate the best possible development procedures to overcome the problems of seamless integration and not only to fulfill the current requirements but also to take care of future needs of the users. How ever support from both the sides i.e. Developers as well as users is required hence we would be requiring inputs from support team of CLUB on various fronts i.e.

Design, Process flow, concept, technical inputs and approval for screen shots, data classification are some of the prime area of inputs where we require support from CLUB team along with information availability, and rapid decision-making.

CLUB responsibility and inputs:

Content is to be provided and uploaded by CLUB for

- Membership Information
- Access to Main system for integration
- Logic of GYM Membership

Adon system will not stand responsible any wrong inputs on the part of CLUB's staff mismanagement or wrong data entry.

Solution Maintenance

In our continuous quest to provide world class solutions we work round the year maintaining and updating our customer's solutions. Our maintenance includes: addition & deletion of content, and error codes debugging on regular basis (should they ever arise).

After the expiry of warranty period of the solution would enter into AMC contract for continuous maintenance at the rate quoted in the commercials.

Note: Maintenance covers only work associated with updating, debugging, changing content (text) or images or graphs. Should a need arise to change a section or information category or sub-category that may require Vyteq to change the solutions basic logic, than that would be considered modifications.