**Gym Fitness Management System**

### A Project report submitted

**In the partial fulfilment the award of degree of BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING (2020-2024)**

**By**

P.Abhiram Satya Varun 211801370003

` P.Uma Maheswari 211801370059

CH.Vineetha 211801370031

B.Kaveri 211801370033

**Under the guidance**

**Ashwin**

*Assistant Professor of centurion University of technology and management*

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Centurion University of Technology and Management

Vizianagaram-Andhra Pradesh

**(20201-2025)**

**Department Of Computer Science and Engineering**

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**BONAFIDE CERTIFICATE**

This is to certify that the project work entitled “**Gym Fitness Management System”**

is a fulfilment of project work done by **P.Abhiram Satya Varun (211801370003), CH.Vineetha(211801370031), B.Kaveri(211801370033), P.Uma Maheswari(211801370059),** for the award the degree of **BACHELOR OF TECHNOLOGY** in **COMPUTER SCIENCE AND ENGINEERING, Centurion University of Technology And Management**, during the academic year 2021-2022

**Internal Guide Head Of The Department**

**Ashwin Mr. R. Lakshman**

**B. Tech B. Tech**

**Asst. Professor Head of department**

**Dept of CSE Dept of CSE**

External Examiner

**ACKNOWLEDGEMENT**

It is with at most pleasure and excitement we submit our project partial fulfillment of the requirement for the award of Bachelor of Technology.

The project is a result to the cumulate efforts, support, guidance, encouragement and inspiration from many of those for whom we have to give our truthful honor and express gratitude through bringing out this project at the outset as per our knowledge.

We convey special thanks to our project **GuideAshwin, B. Tech** who has guided us and encouraged us to enhance our knowledge with present working of this project to bring out enriching the quality of project.

We expressed our appreciativeness to **R. Lakshman, B. Tech Asst. Professor and Head of the Department**, who facilitated us to providing the friendly environment which helped to enhance our skills in present project.

**DECLA****RATION**

We hereby declare that the project entitled **“Gym Fitness Management System”**

submitted to the fulfilment of award the degree of **B. TECH(CSE)** in **Centurion University Of Technology And management**. This project work in original has not been submitted so far in any part or full for any other university or institute for the award of any Degree.

P.Abhiram Satya Varun - 211801370003

CH.Vineetha - 211801370031

B.Kaveri - 211801370032

P.Uma Maheswari - 211801370059

Introduction

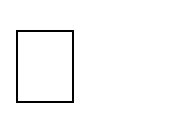
Our Gym Management Software is a gym and health club membershipmanagement system. You can keep records on your members, their memberships, and have quick and easy communication between you and your members. Gym Management also includes a booking system, point of sale, banking, accounting, concessions and has a range of reports that help in the management of your club.

Our Gym Management Software is a complete gym and recreation facility system program which looks after all of your members, memberships and activities. It is designed for gyms, recreation centers, and health clubs.

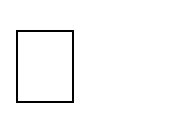
Our Gym management Software provides lots of functions such data entry of customer, keeping records of all the things about customer’s fees, plan, and physical fitness which help to provide good quality of services to customer from Gym managers.

This system structure is become very simple to understand because of Data Flow Diagram provided by us. Context level Diagram and Some chart are also available in this case study. The demo of using the software such as customer detailform, data base of software is also provided by us

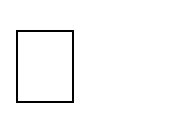
#### Objectives:

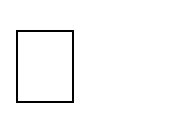
The main objective of the project is to develop software that facilitates the data storage, data maintenance and its retrieval for the gym in

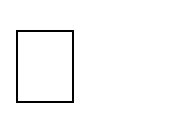
an igneousway.

To store the record of the customers, the staff that has the privileges to access, modify and delete any record and finally the service,

gym provides toits customers.

Also, only the staff has the privilege to access any database and make the required changes, if necessary.

To develop easy-to-use software which handles the customer-staff relationship in an effective manner.

To develop a user friendly system that requires minimal user training. Most offeatures and function are similar to those on any windows platform.

# PRELIMINARY SYSTEM ANALYSIS

#### Preliminary system analysis:

Preliminary System analysis is a process of gathering and interpreting facts, diagnosing problems and the information to recommend improvements on the system. It is a problem solving activity that requires intensive communication between the systemusers and system developers. System analysis or study is an important phase ofany system development process. The system is studied to the minutest detail and analyzed. The system analyst plays the role of the interrogator and dwells deep intothe working of the present system. The system is viewed as a whole and the input to the system are identified. The outputs from the organizations are traced to the various processes. System analysis is concerned with becoming aware of theproblem, identifying the relevant and decisional variables, analyzing andsynthesizing the various factors and determining an optimal or at least a satisfactory solution or program of action. A detailed study of the process must be made by various techniques like interviews, questionnaires etc. The data collected by these sources must be scrutinized to arrive to a conclusion. The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to close study and problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces. The solutions are given as proposals. The proposal is then weighed with the existing system analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made. This is loop that ends as soon as the user is satisfied with proposal. Preliminary study is the process of gathering and interpreting facts, using the information for further studieson the system. Preliminary study is problem solving activity that requires intensive

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communication between the system users and system developers. It does various feasibility studies. In these studies a rough figure of the system activities can be obtained, from which the decision about the strategies to be followed for effective system study and analysis can be taken.



**Existing System**

In the existing system the exams are done only manually but in proposed system we have to computerize the exams using this application.

* + - Lack of security of data.
    - More man power.
    - Time consuming.
    - Consumes large volume of pare work.
    - Needs manual calculations.
    - No direct role for the higher officials



**Proposed System**

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

* + - Security of data.
    - Ensure data accuracy’s.
    - Proper control of the higher officials.
    - Minimize manual data entry.
    - Minimum time needed for the various processing.
    - Greater efficiency.
    - Better service.
    - User friendliness and interactive.
    - Minimum time required.

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**FEASIBILITY STUDY**: Feasibility study is made to see if the project on completion will serve the purposeof the organization for the amount of work, effort and the time that spend on it. Feasibility study lets the developer foresee the future of the project and theusefulness. A feasibility study of a system proposal is according to its workability, which is the impact on the organization, ability to meet their user needs and effective use of resources. Thus when a new application is proposed it normallygoes through a feasibility study .The document provide the feasibility of the project that is being designed and lists various areas that were considered very carefully during the feasibility study of this project such as Technical, Economic and Operational feasibilities. The following are its features:

**TYPES OF FEASIBILITY STUDY:**

#### TECHNICAL FEASIBILITY:

The system must be evaluated from the technical point of view first. The assessment of this feasibility must be based on an outline design of the system requirement in the terms of input, output, programs and procedures. Havingidentified an outline system, the investigation must go on to suggest the type of equipment, required method developing the system, of running the system once it has been designed.



Technical Gyms raised during the investigation are:

* + - Does the existing technology sufficient for the suggested one?
    - Can the system expand if developed?

The project should be developed such that the necessary functions and performance are achieved within the constraints. The project is developed within latest

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technology. Through the technology may become obsolete after some period of time, due to the fact that never version of same software supports olderversions, the system may still be used. So there are minimal constraints involved with this project.



**ECONOMIC FEASIBILITY**

The developing system must be justified by cost and benefit. Criteria to ensure that effort is concentrated on project, which will give best, return at the earliest. One of the factors, which affect the development of a new system, is the cost it would require.

The following are some of the important financial questions asked during preliminary investigation:

* + - The costs conduct a full system investigation.
    - The cost of the hardware and software.
    - The benefits in the form of reduced costs or fewer costly errors.

Since the system is developed as part of project work, there is no manual cost to spend for the proposed system. Also all the resources are already available, it give an indication of the system is economically possible for development.

#### Project Category:

In this project “Gym Management system ” we use HTML language as frontend and MY SQLas database and for styling of website we use CSS and Jquery javascript.

#### SOFTWARE:

Every application needs the software in which it has to be executed and a hardware the application is going to perform its function. Some application cannot run on every platforms and some applications needs some specific requirement in the software or in hardware to get operated. Lets take an example of the applications which cannot be run on every platforms like windows, android, Linux, etc. Applications made in visual basic is only supported for the windows, one cannot access this applications from the mobile phones, etc. So, here are some hardware and software specifications which are mandatory for the application to get operated.

#### HARDWARE:

* + 1. **User Interface**
       - HTML has been used for developing the User Layout for the system
       - PHPScript has been used for creating all the validations and client sidescripting functionality
       - CSS has been used for designing the web pages of the system

#### HARDWARE INTERFACE:

* + - * Processor : Intel Pentium IV or more
      * Ram : 512 MB or more
      * Cache : 1 MB
      * Hard Disk : 10 GB recommended

#### Software Interface:

* + - * Client on Internet: Web Browser, Operating System (any)
      * Web Server: Operating System (any), Apache 2
      * Database: MySQL
      * Scripting Language: HTML, PHPScript, JQuery

##### Communication Protocol

Following protocols are required to be permitted on the server side

* + - * HTTP incoming request

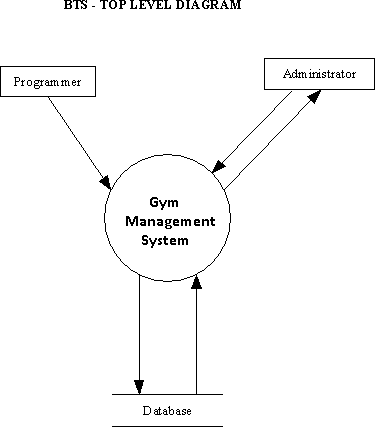
##### Functional Requirements

* + - The system runs of apache server so it is needed that server must haveapache server version 2.0 available
    - We have used HTML for server side scripting so the current version of HTMLmust be available on the server
    - MySQL database has been used for storing the data of the website
    - HTML has been used for creating the layout of the web application
    - CSS has been used for creating the designing of the webpages
    - PHPScript scripting language has been implemented on the system forperforming all of the Client Side Server Validation.

##### Classes and Objects of the Project

* + - Login Class: Used for performing all the operations of the login functionality.
    - Page Class: Class for managing all the operations of the page.
    - Traffic Class: Class for managing the traffic of the website
    - IP Class: It has been used for storing all the IPs which hits the website
    - Users Class: Class for managing all the user operations
    - Permission Class: This class has been used for managing all the permissionslevel opeations.
* **DATA FLOW DIAGRAM**





OUTPUT:

