Smart Gym Management System

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Abstract –This system about the use of the technology in order to reach a better lorem is to become part of human life, and throughout the year, the technology is available and developed to meet the needs of members of all mankind; this did not stop them. Looking humans always have to wake up and be healthy fitness them. We, therefore, we believe, to resolve on the application of the problem is that users of Android, our thoughts, it is to help the users to administer the health care system in fitness and nutrition. This project was developed by the two methodologies and prototyping model, and a spiral. The system is used to project dramatically android broadcast worldwide, thus allowing access to a large number of people. The people, too, can be done through the provision of a hundred of the same, by means of the application of the questionnaire, however, is suggested by this acceptance of a larger one.

Keywords: Android studio, MySQL,JAVA.

I. INTRODUCTION

Web applications have become very popular and useful. Whether the character is referred to the existing system, which is by far followed by the. Gym operates manually. The current system takes that involves a lot of paperwork and is also very expensive. Each manual handling system to be an extremely difficult task. And now computerization day, with a reduced price offers increased efficiency, reduce the administrative burden of time management saved the record, so that each individual member and employee, easily generate required reports.

Our "Smart gym management system" for those who run the company proposed to the gym. Before anything to do research about the beautiful life gyms major challenges to the owners. The memory of how to create a system of a huge, in safety and carefully considered these matters we have other roles for different users depending on their privileges. The administration is required to treat them easily from the gym and all the necessary appropriate depending on security meticulous and a database of user.

The software does not require that store data on members, employees, carrots, chocolate protein, and members received transactions, which are in the gym. Each a user-friendly management system online application. This facilitates the automated system owners and other features. It was a simple plan. Minimum is the lower figure.

1.Objectives
The main objective of this project is to achieve physical fitness and improve the level of health of the users by helping and motivate them to doing sports exercise and eating healthy food. This project will provide the following services as specific objectives:

- To develop the attention in the health fitness and nutrition.
- To motivate the interest of health and physical fitness and nutrition.
- To manage the health life system in health fitness and nutrition.
- To facilitate the connection between nutrition and health, fitness and fashion in one application to not distract the user more than one application.

II. LITRATURE SURVEY

Any business that does not have a website is missing out on one of the most powerful marketing tools available to them. The main reason that it is important for businesses to have a website is how people are likely to find you. These days most people will go online and research products and companies before they make a purchase. Usually, the client uses MS Excel or paper, and maintains their records, however it is not possible them to share the data from multiple system in multi user environment, there is lot of duplicate work, and chance of mistake. When the records are changed they need to update each and every excel file. The Smart Gym Management System eliminates most of the limitationsof the existing software. Increasingefficiency and effectiveness, automation,accuracy, user-friendly interface, information availability, communication capacity, maintenance, cost reduction makes our system smarter than the existing system.

1. Automated GYM Virtual Gym Management System
Accommodating today's demanding lifestyle, people have to be fit & healthy. A daily workout routine is essential

for a healthy life; still, some people take this fact for granted that they need to have some physical activity daily. Even if some people are willing to work out, they are either deprived of motivation or don't have adequate guidance, so we develop a system "AutomatedGYM:Virtual Gym Management" for a gymnasium in which user can enroll to the system via onlineand he can access his workout or trainer and diet or consultancy at the best time and best place for their schedule. For user interaction with trainer or consultancy, system has provided with video chat & text chat. After specific period i.e. when certain amount of data gets enter into database, system will automatically recommend user for workout and diet by giving him report through his profile.

III. DATABASEAND TRANSACTIONS MANAGEMENTSYSTEM FOR A SMART GYM

This work presents a design for online database and transactions management. The design system can manage employee, member, facilities, payroll, receipts, and products information. It also provides the facility of search & advanced search for searching the records efficiently & immediately. This system provides data storing & report generation with a graphical user interface (GUI).

System Study It is always necessary to study and recognize the problems of existing system, which will help in finding out the requirements for the new system. System study helps in finding different alternatives for better solution. The project study basically deals with different operations and steps involved in generation of examination mark sheets. It includes:

- Data gathering
- Study of existing system
- Analyzing problem
- Studying various documents
- Feasibility study for further improvements

Following are the steps taken during the initial study: Initially, we collected all the information, which they wanted to store. Then we studied the working of the current system which is done manually. We noted the limitation of that system which motivated them to have new system. With the help of these documents we got basic ideas about the system as well as input output of the developed system.

IV.PROPOSED SYSTEM

Each a user-friendly gym management system online application. This facilitates the automated system is very essay for both owners and other costumer. It was a simple plan. Minimum is the lower figure. The reason of

operating a system of almost all the faculties of architecture. It has provide 5 objectives:

- Enhancement
- Automation
- Accuracy
- User-Friendly
- Availability
- Maintenance Cost

1. Modules
1.1 Administrator Module
A detail of data retrieval and storage includes this module. In detail in the repository, and entertainment to be classified into two types:

1.2 Creating user
Admin can create a user along with password. Admin also able to put a user in a particular groups.

1.3 Creating group
Create a group and set privilege for it. It includes read, read/write, read/write/delete permissions.

1.4 Creating membership plan
Create a flexible membership plans for gym members. Plans can be various depending on member needs.

2. User Module
Depends on the privilege user's access to features of the application is granted.

2.1 Enhancement
Smart gym is to improve the efficiency of management system by means of the main objective to enhance the effectiveness of the system and upgrade the existing things and has a. The software improves the process by replacing the existing manual system computer system.

2.2 Automation:
Account management system that automates the gym is necessary for each certificate Throughput is increased. As a response system will work much faster.

2.3 Accuracy:
The intelligent management system for a quick response to the gym provides users with very specific information about users, etc. Or more precisely the reason some detail as required.

3. User-Friendly:
The pain of the Gym Management System has a friendly software interface. The easiest way is to feel that they work on. A software interface provides accuracy and pleasant. He, himself, with the current manual system more interactive, fast, and friendly.

3.1 Availability:
Transaction reporting system can be if we really need it. In this way any delay, it should quickly and easily be grasped by the availability of information to be able to be that of necessity.

3.2 Maintenance Cost:
Maintenance cost is reduced.

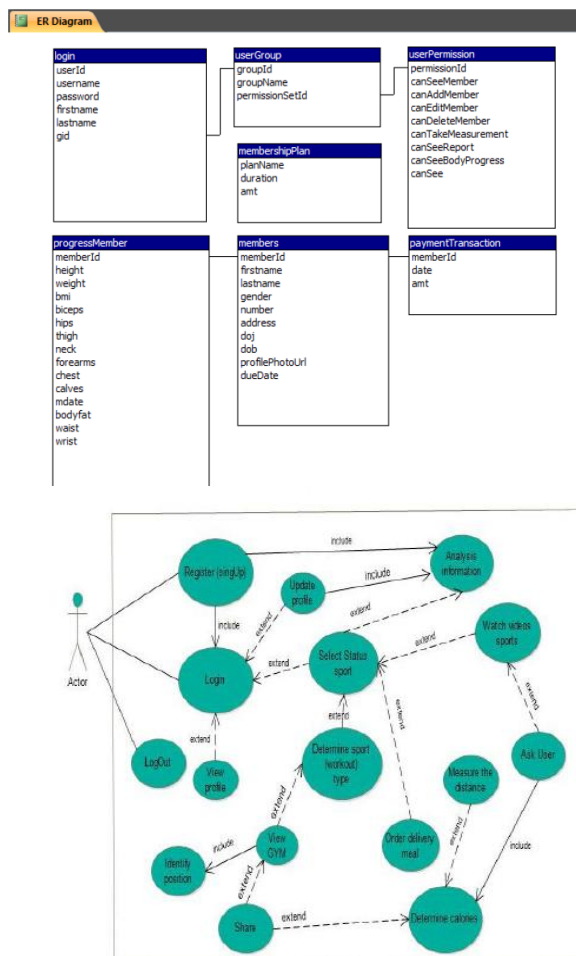## V.ER-DIAGRAM& USE CASE DIAGRAM
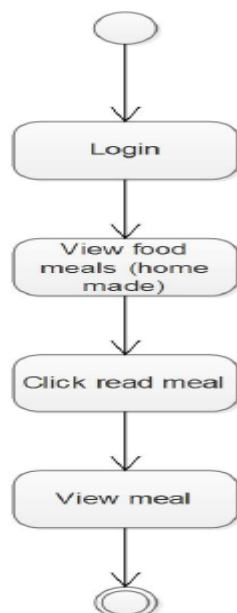
Fig. 1 Activity Diagram

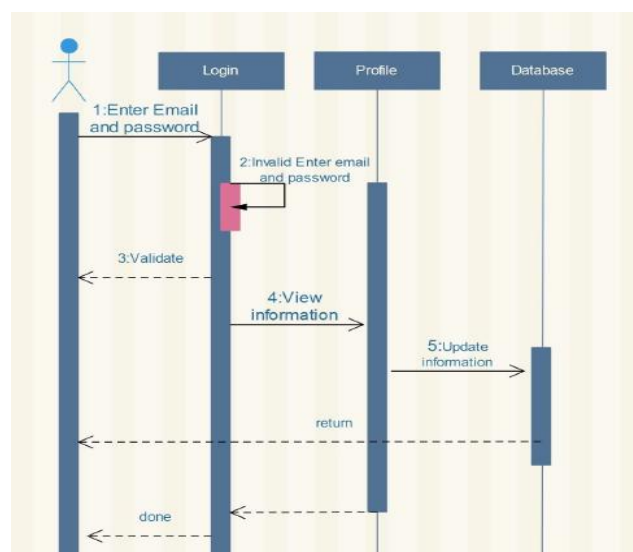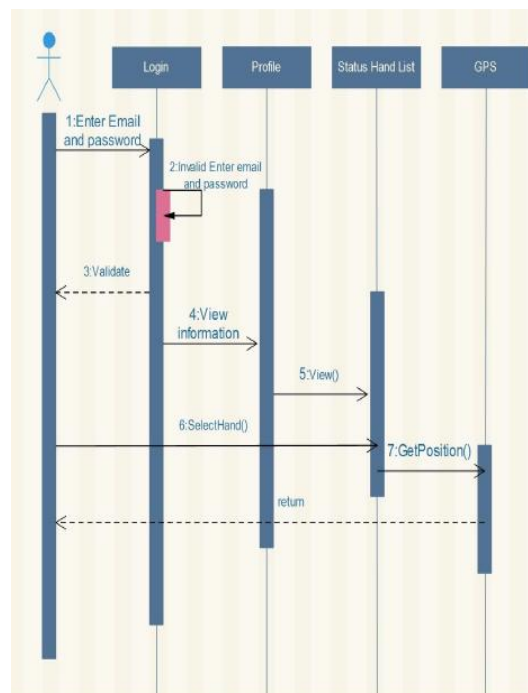
Fig. 2 Sequence Diagram

Fig. 3 Control Flow diagram

1. System Requirements

- Operating System: Windows XP or any Windows versions.
- Coding language: Android, Java
- Toolkit: Android 2.3 Above
- IDE: Eclipse/AndroidStudio
- Data Base: MySQL

2. Hardware Requirements

- System   - Pentium-IV
- Speed   - 2.4GHZ
- Hard disk - 40GB
- Monitor   - 5VGA
- RAM   - 512MB

VI.OVERVIEW OF ECLIPSE

In the context of the IT, Eclipse is the developer and integrated development (IDE) for developing applications using the Java programming language and 100 to other programming languages / 100 ++, Python, the poverty of life, Ruby, etc.Eclipse Eclipse IDE that is designed to provide a floor for the plug-ins and is extensible to additional plug-ins. Developed using Java, the Eclipse of the platform can be used to the client develop a rich man of applications, and a value for the development of integrated with other tools. The light can be in a programming language such as IDE is available as a plug-in it.

The Java Development Tools project (Jdt) provides for a plugin Lamb, which allows it to Java IDE, PyDev voice plugin that is used allows Python IDE, 100/100 ++ Development Tools (EST) on which there is a plugin that allows Agnus develop an application to use 100/100 ++, download the plugin allows Eclipse Eclipse IDE for developing applications to use the ladder PHPEclipse while the plug-in that provides for the complete development tool for PHP.
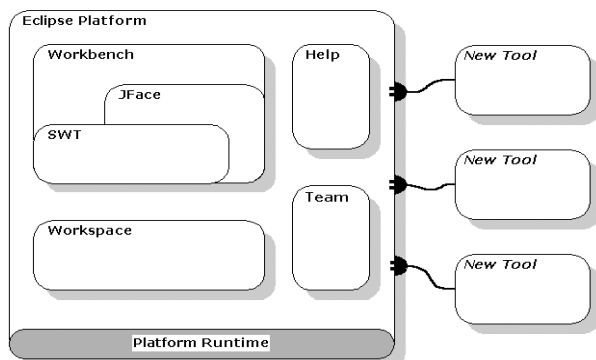

Fig.4 Runtime Diagram

1. Feasibility Study
The feasibility of the project period analyzed the general design and commercial proposal is presented in this group work and cost estimates. During the analysis of the system, the feasibility study of the proposed system is to be performed. For this reason the company is not relevant to the burden.

The feasibility analysis, we need to understand that the main reason for it. The investigation examines the feasibility study and the information needs of the stakeholders. He does not seek to identify the reason for the data of the resources you need to provide a solution, a remedy, and in the costs of the benefits of such a thing, it began to consider the feasibility of such a remedy. That is, considering the alternative solutions to the data to the study of the feasibility of the system, the best way to evaluate the feasibility and in the moment of danger, to

their natural character in another way suitable for the purpose of. The proposed feasibility is evaluated according to its components.

2. Technical Feasibility
This study was conducted to verify the technical feasibility, that is to say the technical work required. A great all developed, in particular the argument does not make any demand. In this case, is especially the ruler demands gifts? This will be higher requirements for the client. The system developed should have a modest requirement, unless the changes are not required to have either a minimum of system implementation.

3.Smart Phones:
A smartphone is the touch screen on the back and the front of the interface is simple to use those bulls zoom the competition away, menus and forms, and so puts them into practice is a simple and easy to get used to the administration of the men of the QWERTY tincidunt, elitnibh at those who are not well educated, but they are skilled enough, neither. The software is easy to maintain and the farmer has to provide specific information they need to complete a task or process. Textile Textile consumer price varies, sometimes higher law. This makes it easy to use the smart phone to the nature of some farmer's, which is a part of their budget.Framework to achieve their programs; it is also the source of the enormous potential of Android.

VII. CONCLUSION

Android development of a particular application always includes the interaction between user interface and user. Java programming language is use for the implementation of the framework. Now a days, Many Android applications are used by many users like clock, calendar, google play, browser, maps, many types of small apps, etc. At the same time, the application developers can use the API of application

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