GYM MANAGEMENT SYSTEM

Submitted by

K.RANI (19PCC008)

Under the Guidance of

Ms. S. SARANYA, M.COM (CA), M.Phil.

In partial Fulfilment of the requirements for the award of the degree of

Master of Commerce with Computer Applications

DEPARTMENT OF COMMERCE

AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND

HIGHER EDUCATION FOR WOMEN

COIMBATORE – 641043

MAY-2021

CERTIFICATE

208, Edayarpalayam,

Thadagam Road,

Coimbatore-641025

M K S FITNESS STUDIO

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms.K.RANI (19PCC008)** a student of **II M.Com (CA)** from **DEPARTMENT OF COMMERCE, AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN, COIMBATORE-641043** has successfully completed her project work entitled **"GYM MANAGEMENT SYSTEM"** in our organization during the time period of **January 2021 to May 2021**.

During the course of the project her conduct, character was very good. We wish them all success for her bright future.

M K S FITNESS STUDIO

S. Pradeep

OWNER

CERTIFICATE

This is to certify that the project work entitled **"GYM MANAGEMENT SYSTEM"** submitted to Department of Commerce, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in partial fulfilment of the requirements for the award of the **DEGREE OF MASTER OF COMMERCE WITH COMPUTER APPLICATIONS,** is the record of the original project work done by K. RANI (19PCC008) during the period of her study, under my supervision and guidance.

Signature of the Supervisor

Signature of Head of the Department

Submitted for the viva voce examination held on_____

Internal Examiner

External Examiner

DECLARATION

DECLARATION

I hereby declare that this project work entitled **"GYM MANAGEMENT SYSTEM"** submitted to Department of commerce, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in partial fulfilment of the requirements for the award of the **DEGREE OF MASTER OF COMMERCE WITH COMPUTER APPLICATIONS** is the record of original project work done by **K.RANI (19PCC008)** during the period of study, under the supervision and guidance of **Ms. S. SARANYA, M.Com (CA)., M.Phil.,** teaching assistant, Department of Commerce.

Place:

Date: Signature of the candidate

ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

First and Foremost, I thank the **God Almighty** who has been a power of strength towards the successful completion of the project work

I would like to express my deep sense reverential gratitude and sincere thanks to **Prof. S. P. Thyagarajan**, **Chancellor,** of Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-43, for the opportunity given to me for undertaking this study and for providing the need facility during the course of my study.

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I express my gratitude to **Dr. S.Kowsalya., M.Sc., M.Phil., Ph.D., Registrar** Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-43, for providing all facilities necessary for the study.

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I have a great pleasure in expressing my deep sense of my gratitude to all other staff and non-teaching staff that helped us to complete the project.

I would extend our thanks to one and all helped us directly and indirectly for successful completion of our project. Last yet importantly, we would like to thank our parents, friends and all our well-wishers for their kind inspiration.

ABSTRACT

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The project entitled **"Gym Management System"** is developed by using Microsoft Visual Studio.net 2012 as front end and MS Access 2013 as back end.

This project provides solution to manage the details of the members of a fitness centre in an easier and more convenient way. The administrator can store and maintain the necessary details namely employees, members, equipments, batches and payments details. With the help of this software, the management can generate reports periodically. The system has been developed in such a way that is flexible to add any additional procedure based on requirements of the user. There will be only a minimum effort needed for a programmer to develop this package in order to make it accustomed for future needs.

CONTENTS

CONTENTS

INTRODUCTION

CHAPTER I

INTRODUCTION

1.1 OVERVIEW OF THE PROJECT:

The "Gym Management System" is an application software developed to keep records of members and allows easy communication between user and members. The Gym Management requires a system that will handle all the necessary and minute details easily and proper database security accordingly to the user.it is an system user-friendly software for Health club or Fitness club which stores data and manage members information, trainee information, equipment information and fees details. This system helps in viewing a detailed report regarding members, equipment, and fees information.

OBJECTIVES OF THE PROJECT:

- To develop a user friendly software.
- To reduce the time taken to enter staff and member details.
- To enable faster updating and retrieval of information.
- To provide security on information.
- To generate reports.

MODULES:

- Admin Login
- Members Details
- Trainee Details
- Batch Details
- Fees Details
- Equipment Details
- Gym Food Details

ADMIN LOGIN:

This is the initial module in which admin can login. Admin has all right to view and modify the details in the system. Admin log into the system by specifying unique username and password. Admin has to enter all the details subjected to the member and has the full authority to add, delete and update information.

MEMBERS DETAILS:

This module shall have all the details pertaining to the member such as name, contact number, gender, address, date of birth, admission date etc.

TRAINEE DETAILS:

This module shall have all the details pertaining to the trainee such as trainee name, age, gender, experience, address etc.

BATCH DETAILS:

This module shall have all the details about batch such as batch name, batch type, trainee of morning batch, members at morning batch, trainee of evening batch, members at evening batch etc.

EQUIPMENT DETAILS:

This module shall have all the details about equipment for the members such as equipment name, equipment purpose, equipment weight, the trainee who handle the equipment etc.

FEE PAYMENT DETAILS:

This module includes the fee payments details it has the type of payments, paid, due, member mam etc.

GYM FOOD DETAILS:

This module includes the gym food details like food name, food type, quantity, purpose of the gym food etc.

REPORTS:

This module includes the report data. It notifies about the pending fee payment for different members. And also prints reports of fee payments.

1.2 PROFILE:

NAME OF THE FITNESS STUDIO	: M K S Fitness Studio
OWNER'S NAME	: S. Pradeep
YEAR OF ESTABLISHMENT	: 2017
ADDRESS	: 208, Thadagam Road, Coimbatore-641025.
TELEPHONE	: 0422- 2426270
NO OF EMPLOYEES	: 12
WORKING HOURS	: 5 am-9 am 5 pm-9 pm
TYPE OF BUSINESS	: Sole trader

M K S fitness studio is located in Thadagam Road, Coimbatore. It is familiar for both gents and ladies and allowed for certain activities of both. This fitness Centre is recognized by COIMBATORE AMATEUR BODY BUILDING ASSOCIATION . It was started in JUNE 1st 2017.This fitness center was founded by Mr. Pradeep. S, being the sole owner of the center. Lately, we have seeing many "gym facilities" that are low cost. So to say that they are safe or venues where one can get reliable and accurate information on health fitness and exercise provided excess service for their paid amount.

M K S FITNESS CENTER HAS FACLITIES LIKE:

- Meditation
- Batch wise exercise
- Diet control regulation
- Various protein diet

The fitness facilities serves as more effectively than simply a place where you find exercise machines and regular classes, but also places where the members can learn about their bodies how relevantly support their daily activities and the helper over there provide proper training to achieve their target.

SYSTEM SPECIFICATION

CHAPTER II

SYSTEM SPECIFICATION

HARDWARE AND SPECIFICATION

PROCESSOR : INTEL CORE 13 (6^{TH} GEN) 2400 Hz PROCESSOR

RAM : 8.00 GB DDR4

HARDWARE : ITB 5400RPM SATA hard drive

MONITOR : 22 MONITOR – P2217H

MOUSE : WIRELESS MOUSE

KEYBOARD : STANDARD PS2 KEYBOARD

SOFTWARE SPECIFICATION:

OPERATING SYSTEM : WINDOWS 10

FRONT END : VISUAL BASIC.NET 2012

BACK END : MS ACCESS 2013

LANGUAGE SPECIFICATION:

2.3.1VISUAL BASIC.NET:

Visual Basic.NET (VB.NET) is an object-oriented computer programming language implemented on the .NET Framework. Although it is an evolution of classic Visual Basic language, it is not backwards-compatible with VB6, and any code written in the old version does not compile under VB.NET.VB.NET is implemented by Microsoft's .NET framework. Therefore, it has full access to all the libraries in the .Net Framework.

All other .NET languages, VB.NET has complete support for object-oriented concepts. Everything in VB.NET is an object, including all of the primitive types and user defined types, events, and even assemblies. All objects inherits from the base class object. It's possible to run VB.NET programs on Mono, the open source alternative to .NET, not only under windows, but even Linux or Mac OSX.

EVENT DRIVEN PROGRAMMING:

Visual Basic.NET uses event programming one event or another triggers each activity in the program. The core of visual basic programming is set of independent piece of code that is activated and responds to user by the way even procedure programmed.

FORM:

The forms are control units in visual basic.NET. It is windows initially blank on which control are pasted to create required screen which serves as windows that can customize as application. To create the look, control and graphics and pictures, forms are used. Each forms saved in separate file with form extension.

LABLES:

The labels are controls that can be used to display text during the execution of project. The user cannot change it; it acts as caption for text box.

COMMAND:

Command button carries out a command or action when a user chooses it. Command button appear in almost every window application. Command button determine when the user wants to do something such as exit the application or begin printing.

MENU EDITOR:

Menus allow you to arrange commands in a logical and easy-to-find fashion. With the menu editors, one can create and edit menus by working directly with a menu bar that closely resembles the one in your finished application.

MESSAGE BOX:

Message box is a special dialog box used to display a piece of information to the user.

IMAGE BOX:

Image box is just a windows forms control, thus, using it within your forms application is as simple as adding other controls when you design the form.

TEXT BOX:

Visual basic provides several mechanisms for gathering input in a program. A textbox control is used to display, or accept as input, a single line of text. VB programmers make extensive use of the textbox control to let the user view or enter large amount of text.

FEATURES OF VISUAL BASIC.NET:

- Boolean Conditions
- Automatic Garbage Collection
- Standard Library
- Assembly Versioning
- Properties and Events
- Delegates and Events Management
- Easy-to-use Generics
- Indexers
- Conditional Compilation
- Simple Multithreading

2.3.2 MS ACCESS 2013

Microsoft Access is a database management system (DBMS) from Microsoft that combines the Relational Microsoft Jet Database Engine with a graphical user interface and software development 365 suite of applications, included in the Professional and higher editions or sold separately.

Microsoft Access stores data in its own format based on the Access Jet Database Engine. It can also import or link directly to data stored in other applications and databases.

MS Access is used to store large amount of information and automotive respective tasks. Data in access is organized in form of tables; within a table; records are arranged according to common reference value known as primary key. Data access has default extension of .mdb.

Table is collection of data about specific topics. A database might contain many tables each future refinement of data. A table may contain different records and fields. We can set primary key for fields.

RECORDS AND FIELDS

A database table is composed of records and fields that hold data. Tables are also called datasheets. Data is stored in records. A record is composed of fields and contains a single piece of data for the subject of the record.

PRIMARY KEY

If specified to a field and should not be in null value. Only unique values are accepted. Key is widely used in creation of tables. Values of the key can be used to refer to entire records, because each record has a different value for the key. Each table can only have one primary key field that you want to use as the primary key.

FEATURES OR ACCESS 2013:

- Window based application
- Large data management capacity
- Importing , exporting and linking files
- Wizard and builders
- Built in function
- Macros
- Context sensitive help and answer wizard

SYSTEM STUDY AND ANALYSIS

CHAPTER III

SYSTEM STUDY AND ANALYSIS

SYSTEM STUDY:

It involves studying a procedure or business in order to identify its goals procedures and system that will achieve them in an efficient way. Use cases are a widely used systems analysis modeling tool for identifying and expressing the functional requirements of a system. It creates a user friendly environment by providing help and error message.

- Provide up to date information
- Provide day to day operation transaction
- Provides a friendly environment
- Maintain information about member.

This project is done with help of Visual Basic as front end MS Access as back end.

3.1 EXISTING SYSTEM:

The existing system used in fitness centre is manual, the recording of member‘s details is time consuming and often error occurs and activities are not properly implemented. To overcome this difficulty Visual Basic and MS Access is required.

DRAWBACKS OF EXISTING SYSTEM:

- There is a huge loss of time and money.
- Error and misplacement of records occur.
- It‘s not flexible.

3.3 PROPOSED SYSTEM

To overcome above drawbacks a new system is required. The proposed system has some additional features i.e. more users friendly and gives crystal reports to the user. The proposed system “Fitness Centre” has been developed using Visual Basic 6.0 and MS Access. The system has been designed to cater to the needs of fitness center and it produces reports effectively.

ADVANTAGES OF PROPOSED SYSTEM

- Reports at desired time
- Quick response
- Less time consuming
- User friendly.

3.4 FEASIBILITY ANALSIS

Feasibility investigation examines project feasibility and the bond that the system will be useful to the organization proposed summarizing the thinking of analyst in presented to the user for review. Where approved, the proposal initiative a feasibility study in describes and evaluates the candidate system and provide for the section of the best performance requirement.

Five factors consideration are involved in the feasibility analysis:

- Economic feasibility
- Technical feasibility
- Operational feasibility
- Software feasibility
- Hardware feasibility

ECONOMIC FEASIBILITY

Economic feasibility is the most frequently used method for evaluating the effectiveness of the system. The financial benefits must be equal or exceed the cost. There should be sufficient benefits in creating the system and the cost must be acceptable. Such a system will be an economically feasibility system. In the system the financial benefits will be more than the cost and hence it is economically feasible.

TECHNICAL FEASIBILITY

Technical feasible center on existing system and to what extent it can support the addition. Proposed project are beneficial only if they can be turned into information system that will meet organization requirements. If new technology is required, it can be developed with the available technology and the project is made technically feasible.

OPERATIONAL FEASILITY:

Proposed system is beneficial if it is turned information system which will meet the organization operation requirements. User should be involved in the planning and development of the project. The system will certainly be supported since it provides good result and reduce manual work.

SOFTWARE FEASIBILITY:

HASEE technologies ltd., has all the development package such has J2EE. With MS Access ranging from ordinary tools, provider for development to develop an efficient process.

HARDWARE FEASIBILITY:

HASEE technologies ltd., provide a number of provide machines for the project developers to develop efficient software with in the given time. Hence there is no need for the enhancement, and so the proposed system in technically feasible.

SYSTEM DESIGN AND DEVELOPMENT

CHAPTER IV

SYSTEM DESIGN AND DEVELOPMENT

4.1 INTRODUCTION

The process of defining the architecture, modules, interfaces and data for a system in order to meet a specific requirements is known as system design. The application of system theory to product development is known as system design.

4.2 INPUT DESIGN

Input to a system can be defined as the information that is to be provided to the system that is used for future processing by the system to obtain meaningful information, which helps in decision making. Input design consist developing specification and procedures necessary for processing data entered. The objectives followed while doing input design are controlling the data entered. Preventing the entry of invalid data, all the validation checks to be done data entered are specified.

4.3 OUTPUT DESIGN

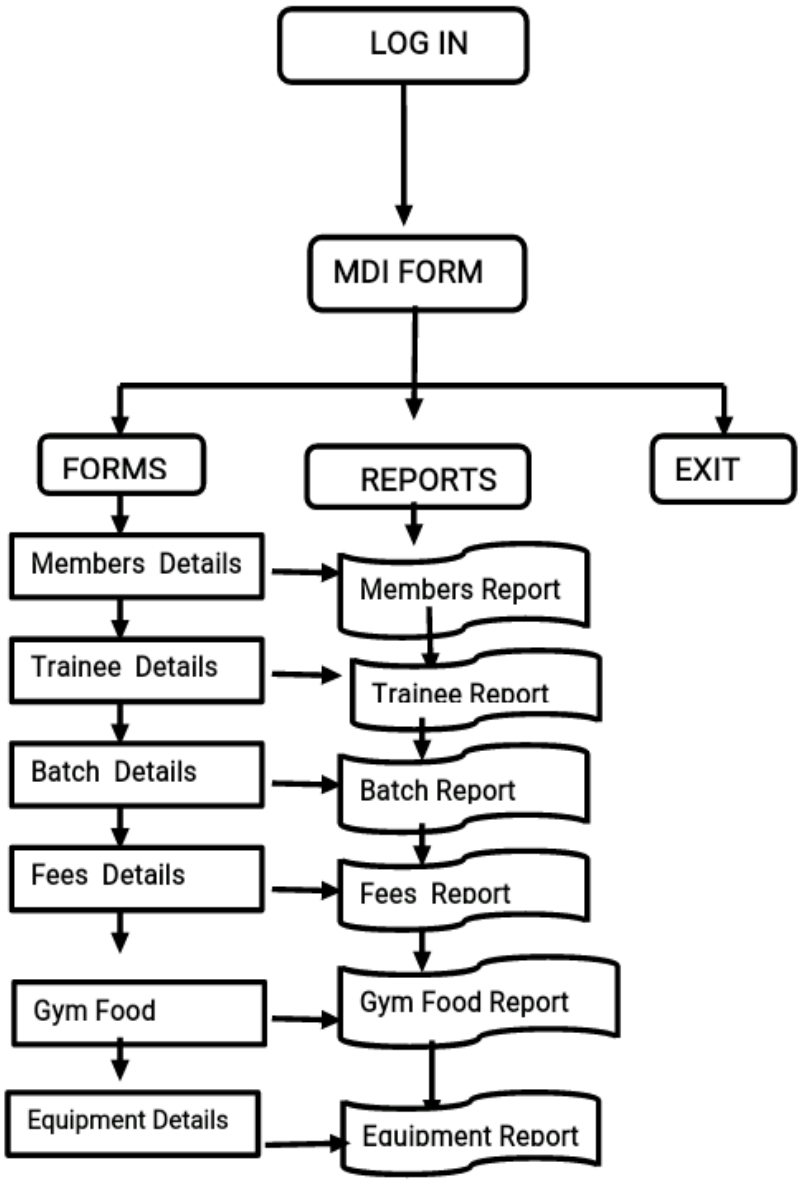
Outputs form the system is required primarily to communicate with the results of fitness management to the user and to be proved permanent copies of result. While designing the output, the type report content has been taken into consideration.

The reports of the system are generated so as to meet the requirements of the fitness Centre. The reports are designed as per the requirements of the gym trainer. This system is mainly designed in such a way as to help the user to navigate easily through the system.

4.4 DATA FLOW DIAGRAM

A data flow diagram (DFD) is a representation of an application system that shows how it works in terms of processes. It depicts flow of data between external entities and the system's processes and data stores. It's a flow chart the "flow" of data through a software system. DFDs can be used visualise data processing as well. It provides about the order in which processes will run or whether they could run in parallel. It's a part of the structured analysis process. It is a graphical representation of a system, a part of a system, or both.

DATA FLOW DIAGRAM



4.5 TABLE DESIGN

The database is the collection of interrelated data shared with minimum redundancy it serves many user quickly and efficiently. Database design deals with table structure and organization. The purpose of database is to enables easy access of information for the user. The general themes behind the database are to handle the information as an integrated one.

While designing a database we have to make decisions regarding how best to take some system in the real worlds and model it in the database. The process consists of deciding which tables to create and what columns they will contain as well as the relationship between tables.

TABLE NAME: MEMBER

PRIMARY KEY: NAME

FIELD NAME	**DATA TYPE**	**DESCRIPTION**
Name	Text	Name
Gender	Text	m/f
Age	Double	Age
Address	Text	Address
Phone No	Double	Phone No
Date Of Joining	Double	Joining Date
Pre Experience	Text	Pre Experience
Trainee Incharge	Text	Staff In Charge

TABLE NAME: TRAINEE

PRIMARY KEY : TRAINEE NAME

FIELD NAME	DATA TYPE	DESCRIPTION
Trainee name	Text	Name
Batch	Text	Batch
Experience	Double	Experience
Salary	Double	Salary
No of customer handled	Double	Customer handled

TABLE NAME: BATCH

PRIMARY KEY: BATCH NO

FIELD NAME	DATA TYPE	DESCRIPTION
Batch No	Text	Batch
Batch	Date/time	Date
Date	Date/Time	Time
Timing	Text	Trainee Name
Trainee of Morning Batch	Text	Customer Name
Members at Morning Batch	Text	Batch
Trainee of Evening Batch	Date/Time	Time
Members at evening batch	Text	Trainee Name

TABLE NAME: FEE

PRIMARY KEY: NAME

	DATA TYPE	**DESCRIPTION**
Name	Text	Name
Date of joining	Date/Time	Date
Total Amount	Double	Total Fee
Paid	Double	Paid Fee
Due	Double	Due Fee

TABLE NAME: EQUIPMENT

PRIMARY KEY: EQUIPMENT NAME

FIELD DETAILS	**DATA TYPE**	**DESCRIPTION**
Equipment Name	Text	Machine Name
Purpose of Equipment	Text	Purpose of Machine
Date of Purchases	Date/Time	Date
Warranty Year	Double	Year
KG's	Double	KG
Trainee	Text	Name

TABLE NAME: GYM FOOD

PRIMARY KEY: FOOD NAME

FIELD DETAILS	**DATA TYPE**	**DESCRIPTION**
Food Name	Text	Name
Quantity	Double	Quantity
Amount	Double	Amount
Purpose	Text	Purpose
Session	Text	Time Provided

4.6 CODE DESIGN

HOME PAGE

```
Public Class Form1
Private Sub Button1_Click (sender As Object, e As EventArgs) Handles Button1.Click
login_form.Show ()
End Sub
```

LOGIN FORM

```
Public Class login form
Private Sub Button1_Click (sender As Object, e As EventArgs) Handles Button1.Click
If TextBox1.Text = "admin" And TextBox2.Text = "Gym" Then
MsgBox ("You have logged in successfully")
MDI_Form.Show ()
Else
MsgBox ("invalid user name or password")
End If
End Sub

Private Sub Button2_Click (sender As Object, e As EventArgs) Handles Button2.Click
Me.Hide ()
Form1.Show ()
End Sub
End Class
```

MAIN FORM

```
Public Class MDI_Form
Private Sub CustmerDetailsFormToolStripMenuItem_Click (sender As Object, e As EventArgs) Handles
CustmerDetailsFormToolStripMenuItem.Click
Form4.Show ()
End Sub
```

```
Private Sub BatchDetailsFormToolStripMenuItem_Click (sender As Object, e As EventArgs) Handles
BatchDetailsFormToolStripMenuItem.Click
Form6.Show ()
End Sub
Private Sub FeeDetailsFormToolStripMenuItem_Click (sender As Object, e As EventArgs) Handles
FeeDetailsFormToolStripMenuItem_Click
form7.Show ()
End Sub

Private Sub MachineryDetailsFormToolStripMenuItem_Click (sender As Object, e As EventArgs)
Handles MachineryDetailsFormToolStripMenuItem_Click
form8.Show ()
End Sub

Private Sub GymFoodDetailsToolStripMenuItem_Click (sender As Object, e As EventArgs) Handles
GymFoodDetailsToolStripMenuItem_Click
form9.Show ()
End Sub

Private Sub EXITtToolStripMenuItem_Click (sender As Object, e As EventArgs) Handles
EXITtToolStripMenuItem_Click
End
End Sub

Private Sub TraineeDetailsFormToolStripMenuItem_Click (sender As Object, e As EventArgs) Handles
TraineeDetailsFormToolStripMenuItem_Click
Form5.Show ()
End Sub
End Class
```

MEMBER DETAILS FORM

```
Public Class Form4
Private Sub Form4_Load (sender As Object, e As EventArgs) Handles MyBase.Load

'TODO: This line of code loads data into the 'Members_Details_Form1DataSet1.Members_Details_Table' table. You can move, or remove it, as needed.
Me.Members_Details_TableTableAdapter1.Fill
(Me.Members_Details_Form1DataSet1.Members_Details_Table)
End Sub

Private Sub Members_Details_TableBindingNavigatorSaveItem_Click (sender As Object, e As EventArgs) Handles Members_Details_TableBindingNavigatorSaveItem_Click
Me.Validate ()
Me.Members_Details_TableBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
End Sub

Private Sub Button1_Click (sender As Object, e As EventArgs) Handles Button1.Click
Try
Me.Validate ()
Me.Members_Details_TableBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
Members_Details_TableBindingSource1.AddNew ()
Catch ex As Exception
Message Box ("enter a input value")
End Try
End Sub
Private Sub Button2_Click (sender As Object, e As EventArgs) Handles Button2.Click
Members_Details_TableBindingSource1.MovePrevious ()
End Sub
Private Sub Button3_Click (sender As Object, e As EventArgs) Handles Button3.Click
Members_Details_TableBindingSource1.MoveNext ()
```

```
End Sub
Private Sub Button4_Click (sender As Object, e As EventArgs) Handles Button4.Click
Members_Details_TableBindingSource1.Clear ()
End Sub

End Class
```

TRAINEE DETAILS FORM

```
Public Class Form5
Private Sub Trainee_Details_FormBindingNavigatorSaveItem_Click (sender As Object, e As EventArgs)

Me.Validate ()
Me.Trainee_Details_FormBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
End Sub

Private Sub Form5_Load (sender As Object, e As EventArgs) Handles MyBase.Load
'TODO: This line of code loads data into the 'Members_Details_Form1DataSet.Trainee_Details_Form'
table. You can move, or remove it, as needed.
Me.Trainee_Details_FormTableAdapter.Fill
(Me.Members_Details_Form1DataSet.Trainee_Details_Form)
End Sub

Private Sub Button1_Click (sender As Object, e As EventArgs) Handles Button1.Click
Try
Me.Validate ()
Me.Trainee_Details_FormBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
Trainee_Details_FormBindingSource.AddNew ()
Catch ex As Exception
Message Box (" enter a input value")
End Try
```

```
End Sub
Private Sub Button2_Click (sender As Object, e As EventArgs) Handles Button2.Click
Trainee_Details_FormBindingSource.MovePrevious ()
End Sub
Private Sub Button3_Click (sender As Object, e As EventArgs) Handles Button3.Click
Trainee_Details_FormBindingSource.MoveNext ()
End Sub
Private Sub Button4_Click (sender As Object, e As EventArgs) Handles Button4.Click
Trainee_Details_FormBindingSource.Clear ()
End Sub
```

BATCH DETAILS FORM

```
Public Class Form 6
Private Sub Batch_Details_TableBindingNavigatorSaveItem_Click (sender As Object, e As EventArgs)
Handles Batch_Details_TableBindingNavigatorSaveItem_Click
Me.Validate ()
Me.Batch_Details_TableBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
End Sub

Private Sub Form 6_Load (sender As Object, e As EventArgs) Handles MyBase.Load
'TODO: This line of code loads data into the 'Members_Details_Form1DataSet.Batch_Details_Table'
table. You can move, or remove it, as needed.
Me.Batch_Details_TableTableAdapter.Fill (Me.Members_Details_Form1DataSet.Batch_Details_Table)
End Sub

Private Sub Button1_Click (sender As Object, e As EventArgs) Handles Button1.Click
Try
Me.Validate ()
Me.Batch_Details_TableBindingSource.EndEdit ()

Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
```

```
Batch_Details_TableBindingSource.AddNew ()
Catch ex As Exception
MsgBox (" enter an input value")
End Try
End Sub
Private Sub Button2_Click (sender As Object, e As EventArgs) Handles Button2.Click
Batch_Details_TableBindingSource.MovePrevious ()
End Sub

Private Sub Button3_Click (sender As Object, e As EventArgs) Handles Button3.Click
Batch_Details_TableBindingSource.MoveNext ()
End Sub
Private Sub Button4_Click (sender As Object, e As EventArgs) Handles Button4.Click
Batch_Details_TableBindingSource.Clear ()
End Sub
End Class
```

FEE DETAILS FORM

```
Public Class Form7
Private Sub Fees_Details_tableBindingNavigatorSaveItem_Click (sender As Object, e As EventArgs)
Handles Fees_Details_tableBindingNavigatorSaveItem.Click
Me.Validate ()
Me.Fees_Details_tableBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
End Sub

Private Sub Form7_Load (sender As Object, e As EventArgs) Handles MyBase.Load
'TODO: This line of code loads data into the 'Members_Details_Form1DataSet.Fees_Details_table' table.
You can move, or remove it, as needed.
Me.Fees_Details_tableTableAdapter.Fill (Me.Members_Details_Form1DataSet.Fees_Details_table)
End Sub
```

```
Private Sub Button1_Click (sender As Object, e As EventArgs) Handles Button1.Click
Try
Me.Validate ()
Me.Fees_Details_tableBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
Fees_Details_tableBindingSource.AddNew ()
Catch ex As Exception
Message Box ("enter a input value")
End Try
End Sub

Private Sub Button2_Click (sender As Object, e As EventArgs) Handles Button2.Click
Fees_Details_tableBindingSource.MovePrevious ()
End Sub
Private Sub Button3_Click (sender As Object, e As EventArgs) Handles Button3.Click
Fees_Details_tableBindingSource.MoveNext ()
End Sub
Private Sub Button4_Click (sender As Object, e As EventArgs) Handles Button4.Click
Fees_Details_tableBindingSource.Clear ()
End Sub
End Class
```

EQUIPMENT DETAILS FORM

```
Public Class Form8
Private Sub Equipment_DetailsBindingNavigatorSaveItem_Click (sender As Object, e As EventArgs)
Handles Equipment_DetailsBindingNavigatorSaveItem.Click
Me.Validate ()
Me.Equipment_DetailsBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
End Sub

Private Sub Form8_Load (sender As Object, e As EventArgs) Handles MyBase.Load
```

```
'TODO: This line of code loads data into the 'Members_Details_Form1DataSet1.Equipment_Details' table.
You can move, or remove it, as needed.
Me.Equipment_DetailsTableAdapter1.Fill (Me.Members_Details_Form1DataSet1.Equipment_Details)
End Sub

Private Sub Button1_Click (sender As Object, e As EventArgs) Handles Button1.Click
Try
Me.Validate ()
Me.Equipment_DetailsBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
Equipment_DetailsBindingSource.AddNew ()
Catch ex As Exception
Message Box (" enter a input value")
End Try
End Sub
Private Sub Button2_Click (sender As Object, e As EventArgs) Handles Button2.Click
Equipment_DetailsBindingSource.MovePrevious ()
End Sub

Private Sub Button3_Click (sender As Object, e As EventArgs) Handles Button3.Click
Equipment_DetailsBindingSource.MoveNext ()
End Sub
Private Sub Button4_Click (sender As Object, e As EventArgs) Handles Button4.Click
Equipment_DetailsBindingSource.Clear ()
End Sub
End Class
```

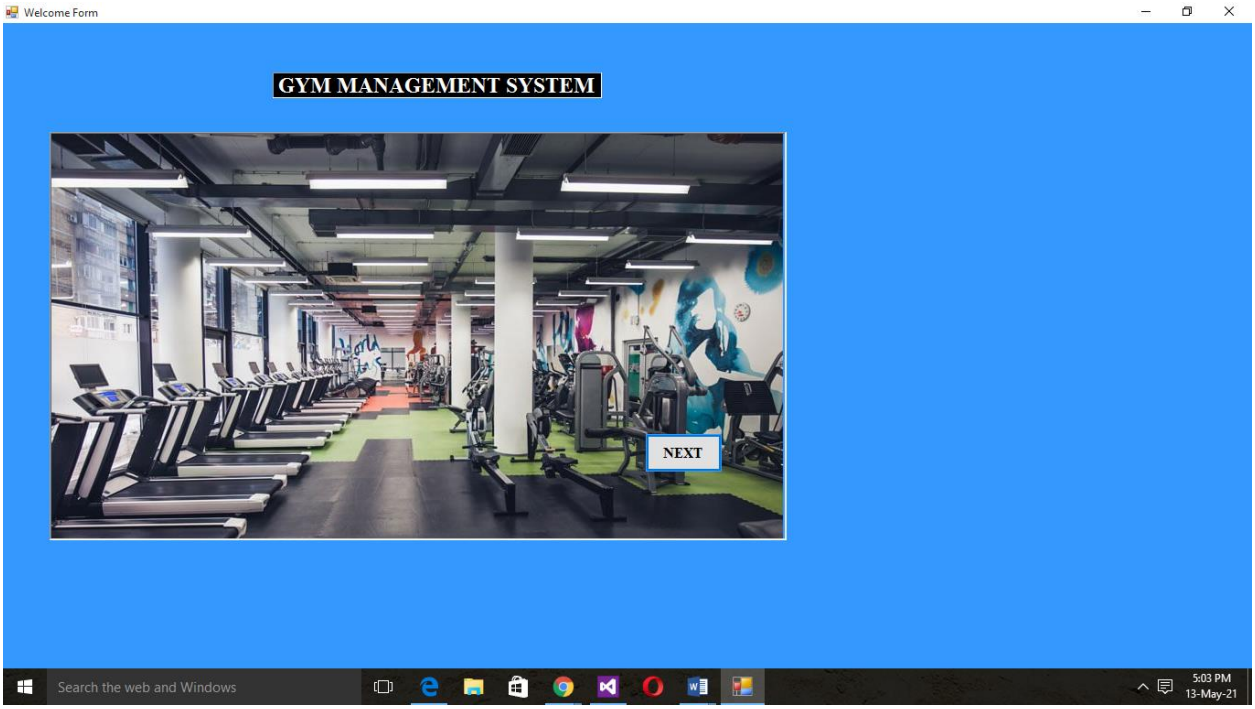
GYM FOOD DETAILS FORM

```
Public Class Form 9

Private Sub Gym_Food_DetailsBindingNavigatorSaveItem_Click (sender As Object, e As EventArgs)
Handles Gym_Food_DetailsBindingNavigatorSaveItem_Click
Me.Validate ()
```

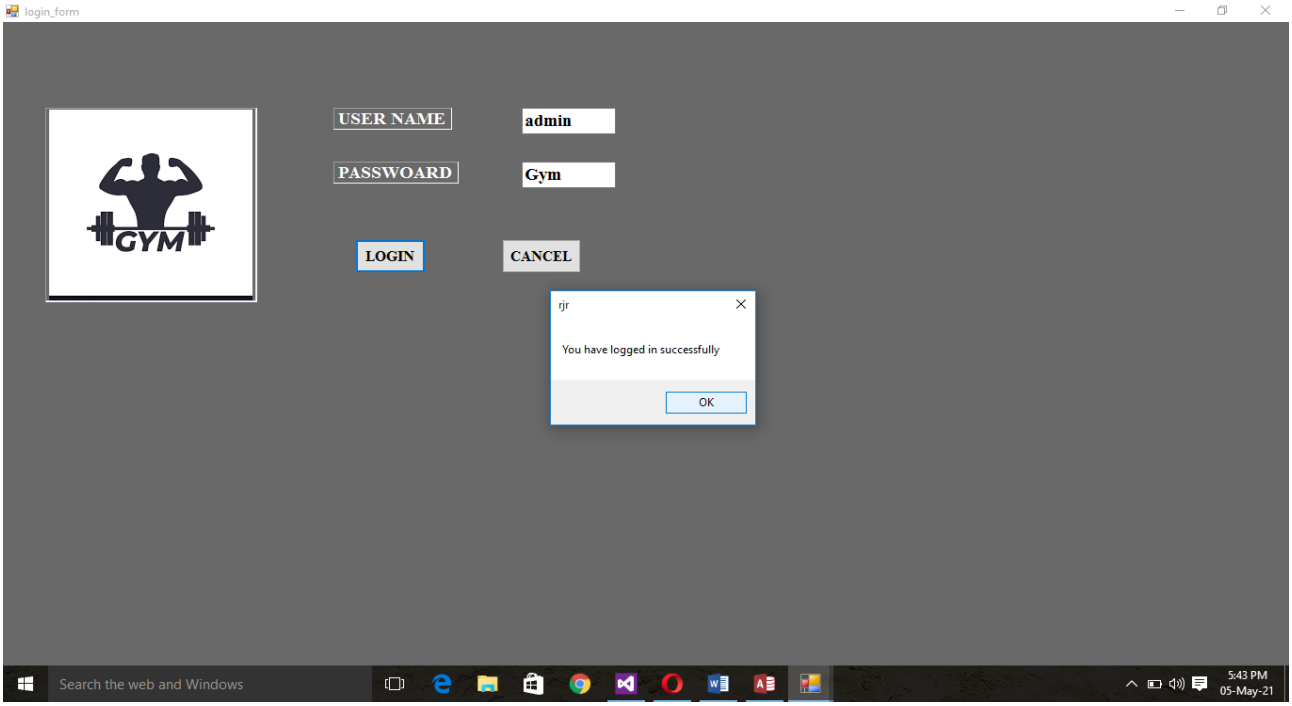
```
Me.Gym_Food_DetailsBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
End Sub

Private Sub Form 9_Load (sender As Object, e As EventArgs) Handles MyBase.Load
'TODO: This line of code loads data into the 'Members_Details_Form1DataSet.Gym_Food_Details' table.
You can move, or remove it, as needed.
Me.Gym_Food_DetailsTableAdapter.Fill (Me.Members_Details_Form1DataSet.Gym_Food_Details)
End Sub
Private Sub Button1_Click (sender As Object, e As EventArgs) Handles Button1.Click
Try
Me.Validate ()
Me.Gym_Food_DetailsBindingSource.EndEdit ()
Me.TableAdapterManager.UpdateAll (Me.Members_Details_Form1DataSet)
Gym_Food_DetailsBindingSource.AddNew ()
Catch ex As Exception

Message Box ("enter a input value")
End Try
End Sub
Private Sub Button2_Click (sender As Object, e As EventArgs) Handles Button2.Click
Gym_Food_DetailsBindingSource.MovePrevious ()
End Sub
Private Sub Button3_Click (sender As Object, e As EventArgs) Handles Button3.Click
Gym_Food_DetailsBindingSource.MoveNext ()
End Sub
Private Sub Button4_Click (sender As Object, e As EventArgs) Handles Button4.Click
Gym_Food_DetailsBindingSource.Clear ()
End Sub
End Class
```

4.7 FORM DESIGN

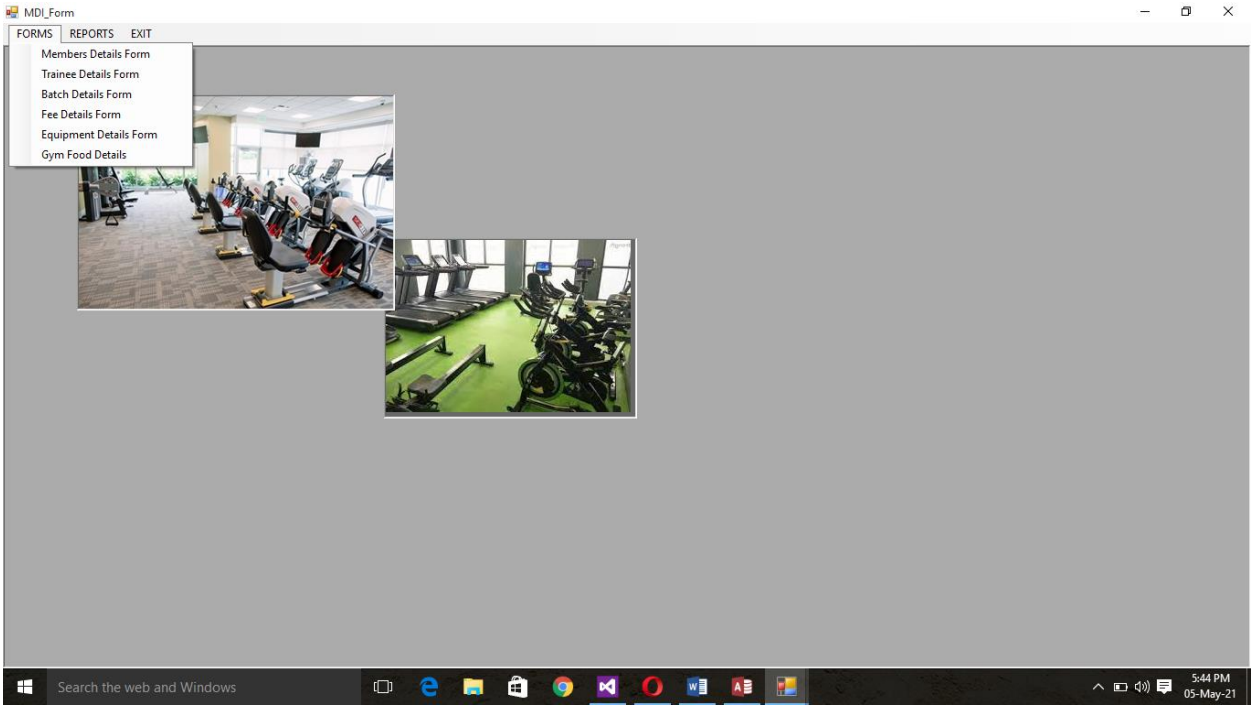
HOME PAGE



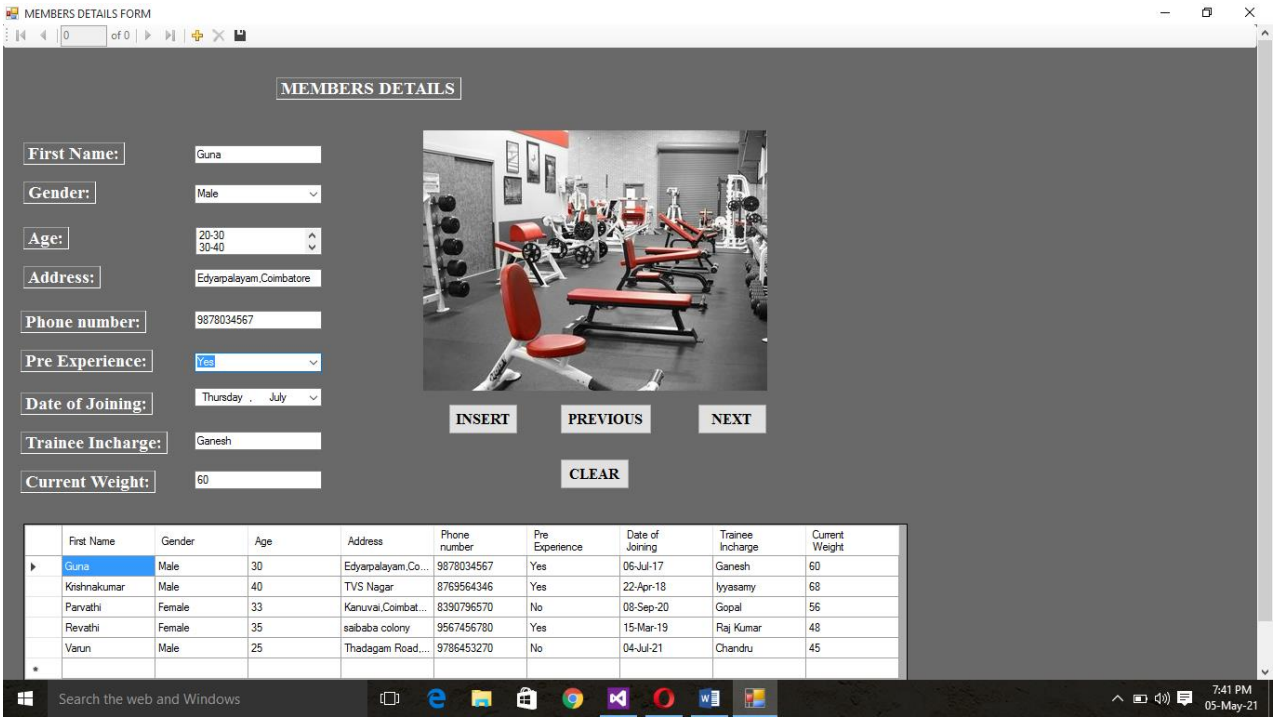
LOGIN FORM



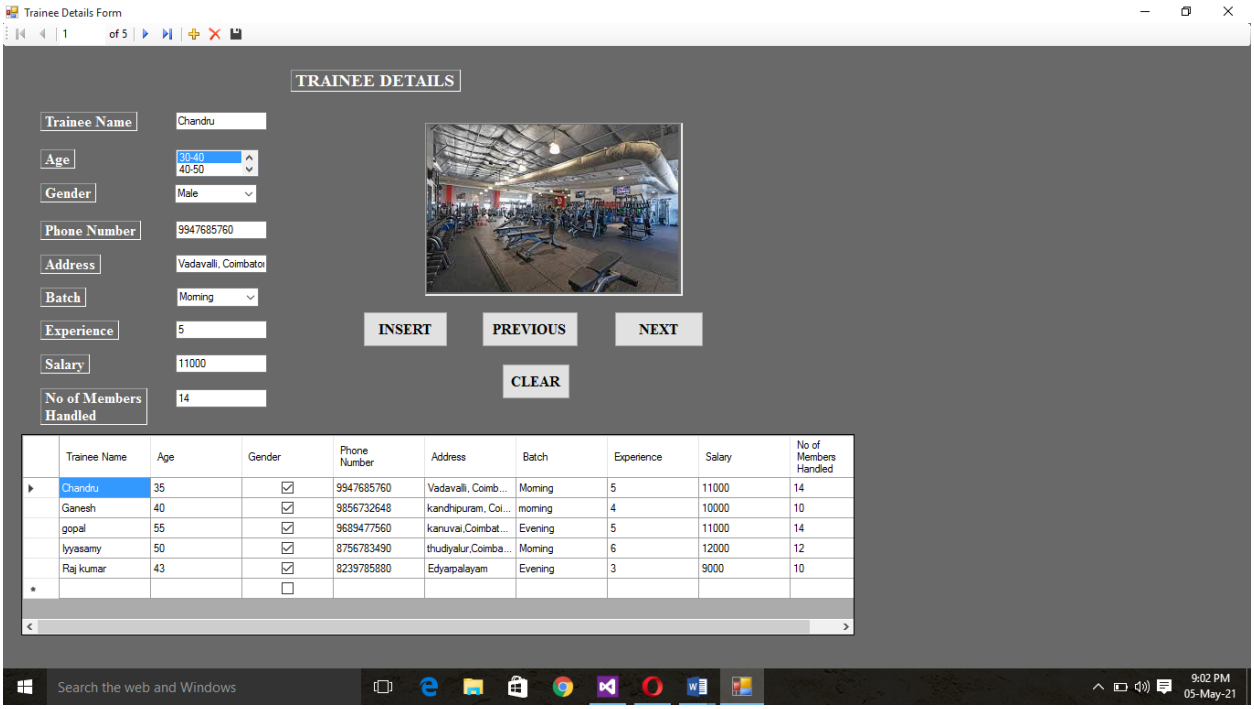
MAIN FORM



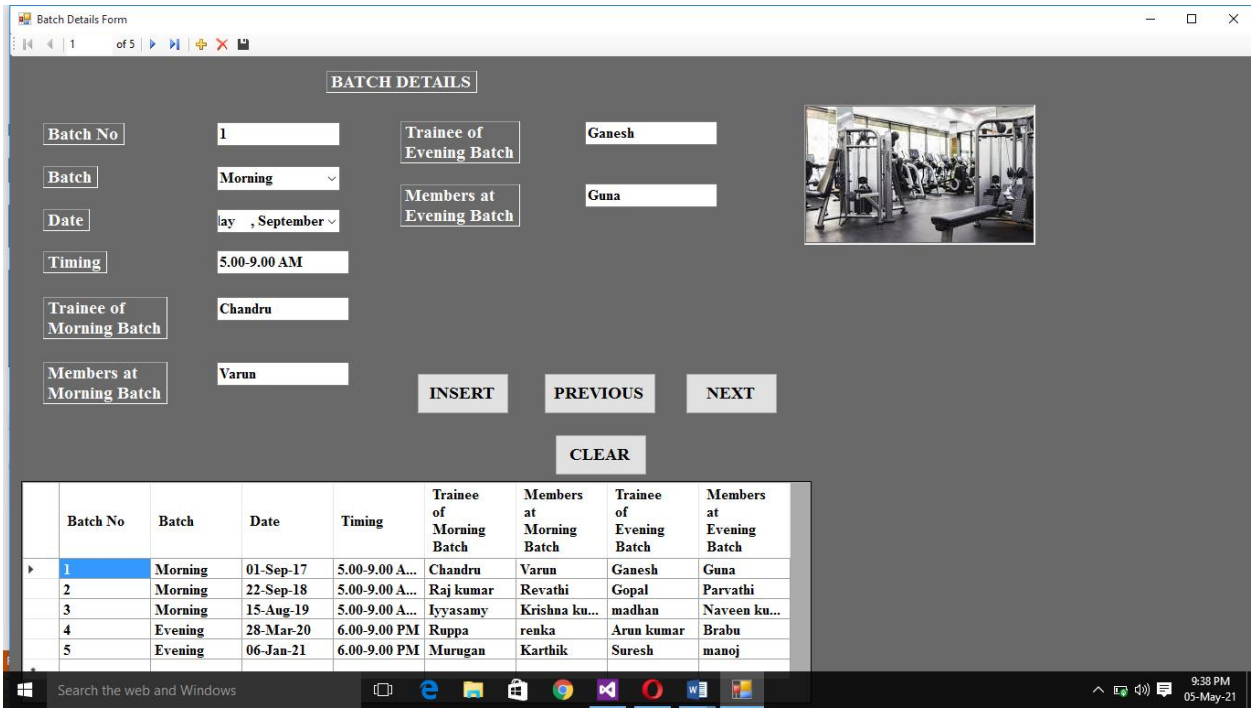
MEMBER DETAILS FORM



TRAINEE DETAILS FORM



BATCH DETAILS FORM



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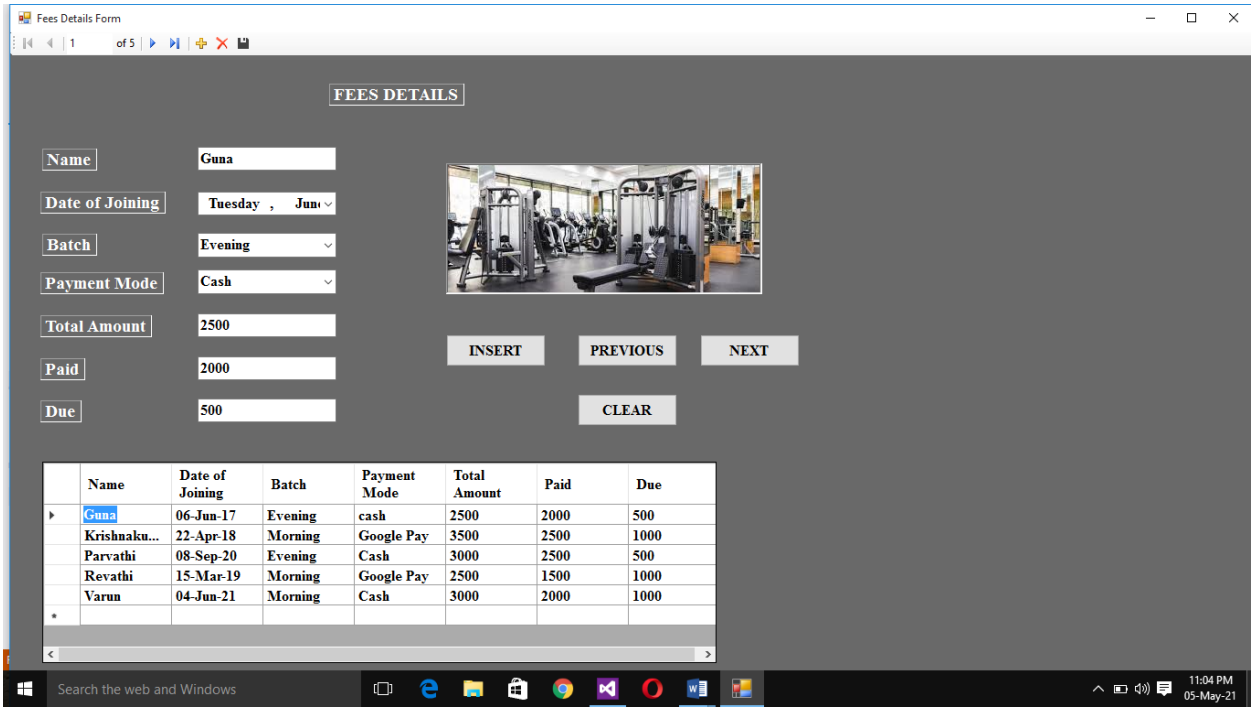
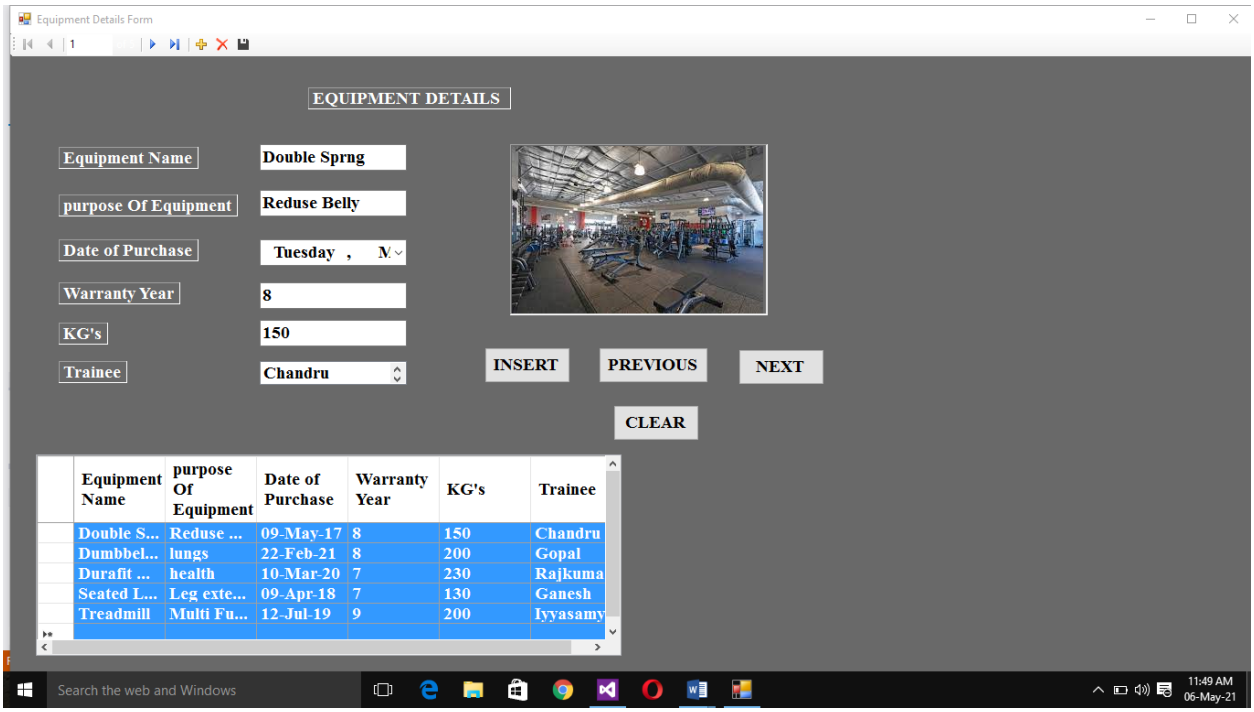
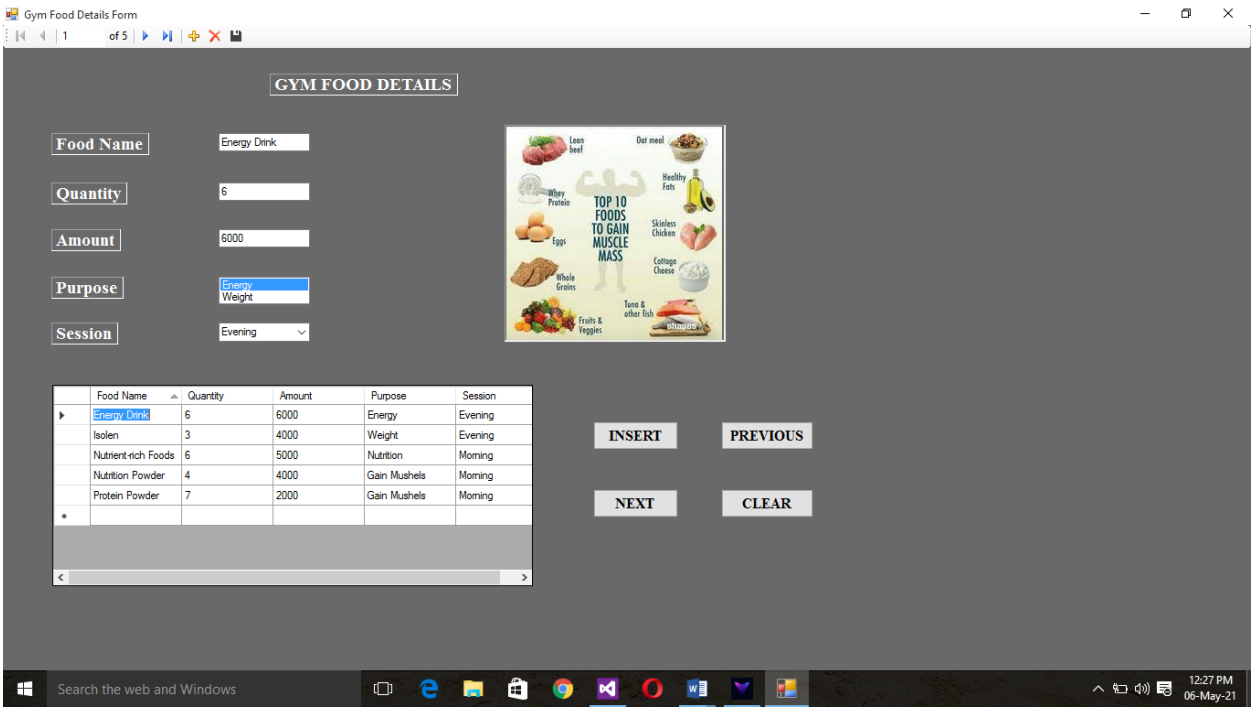


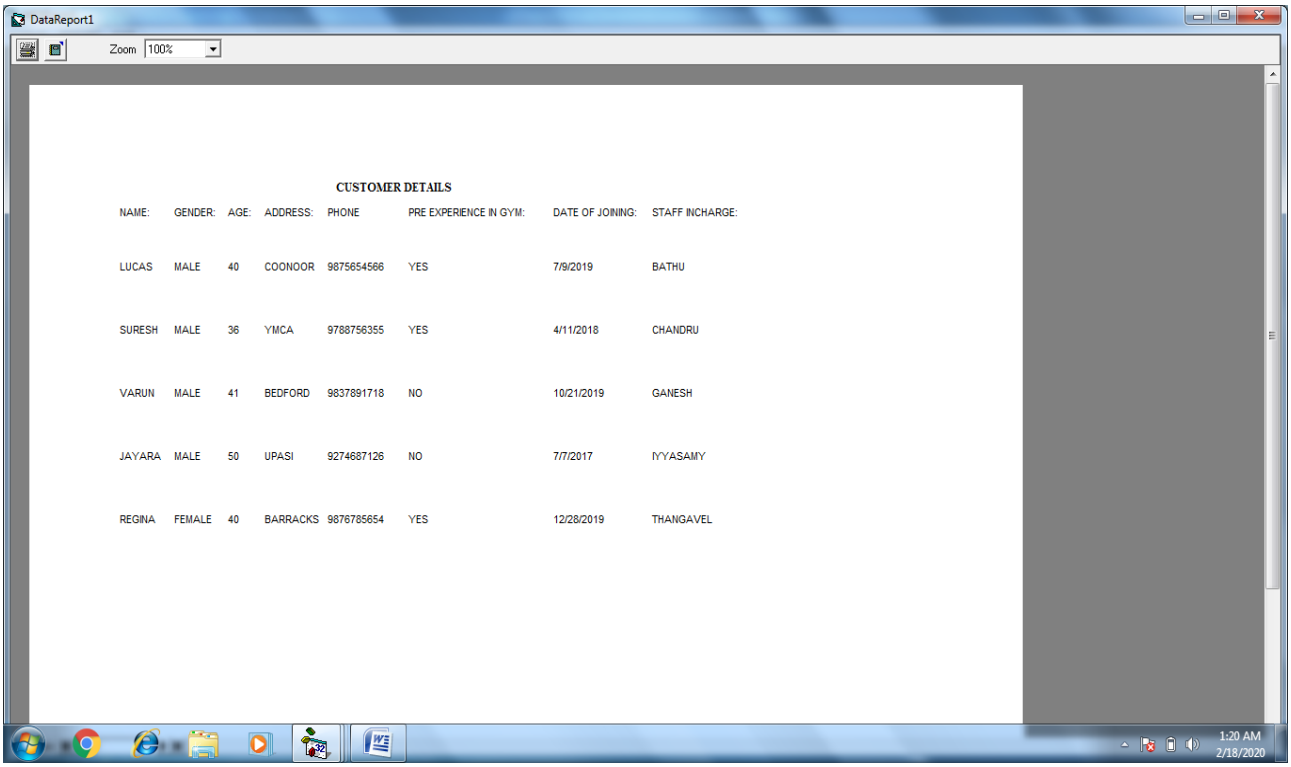
EQUIPMENT DETAILS FORM



GYM FOOD DETAILS



MEMBER DETAILS REPORT



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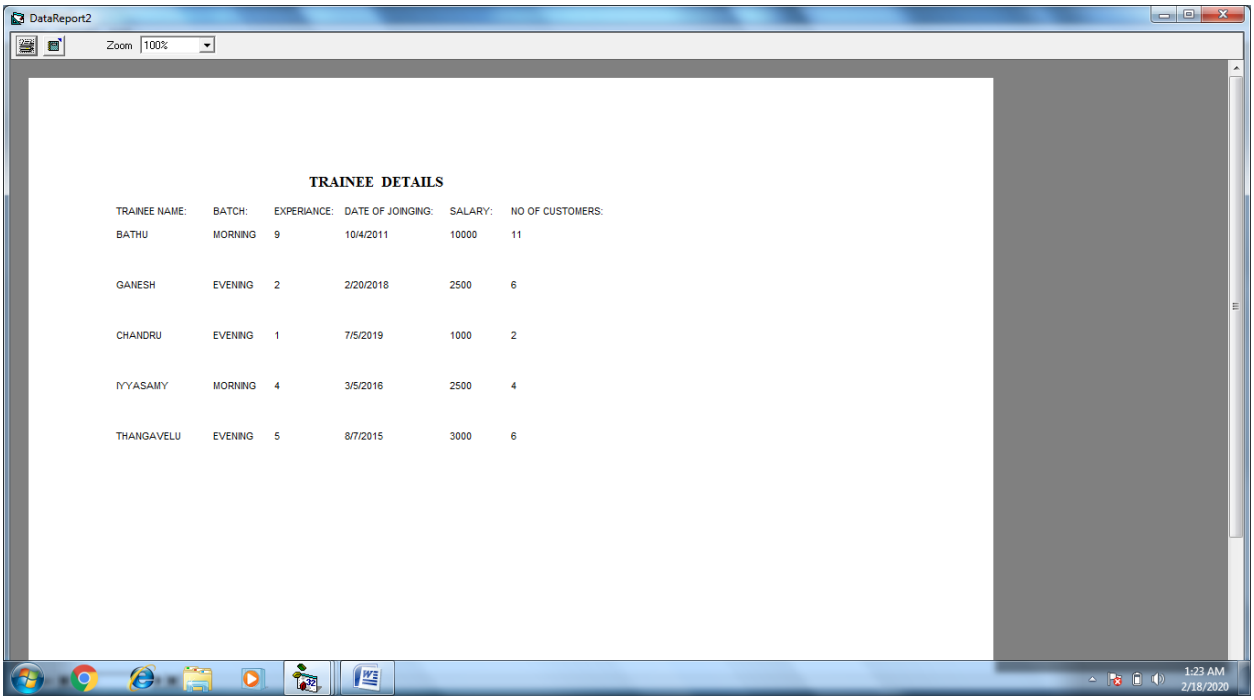

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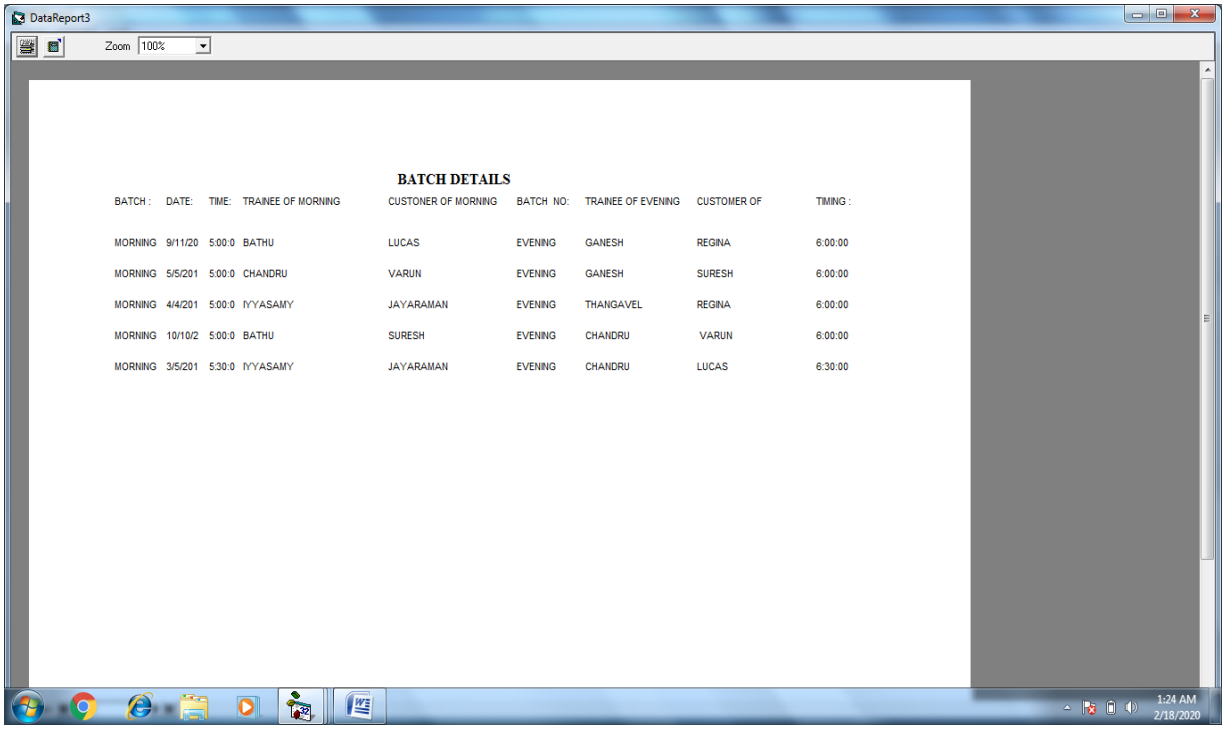

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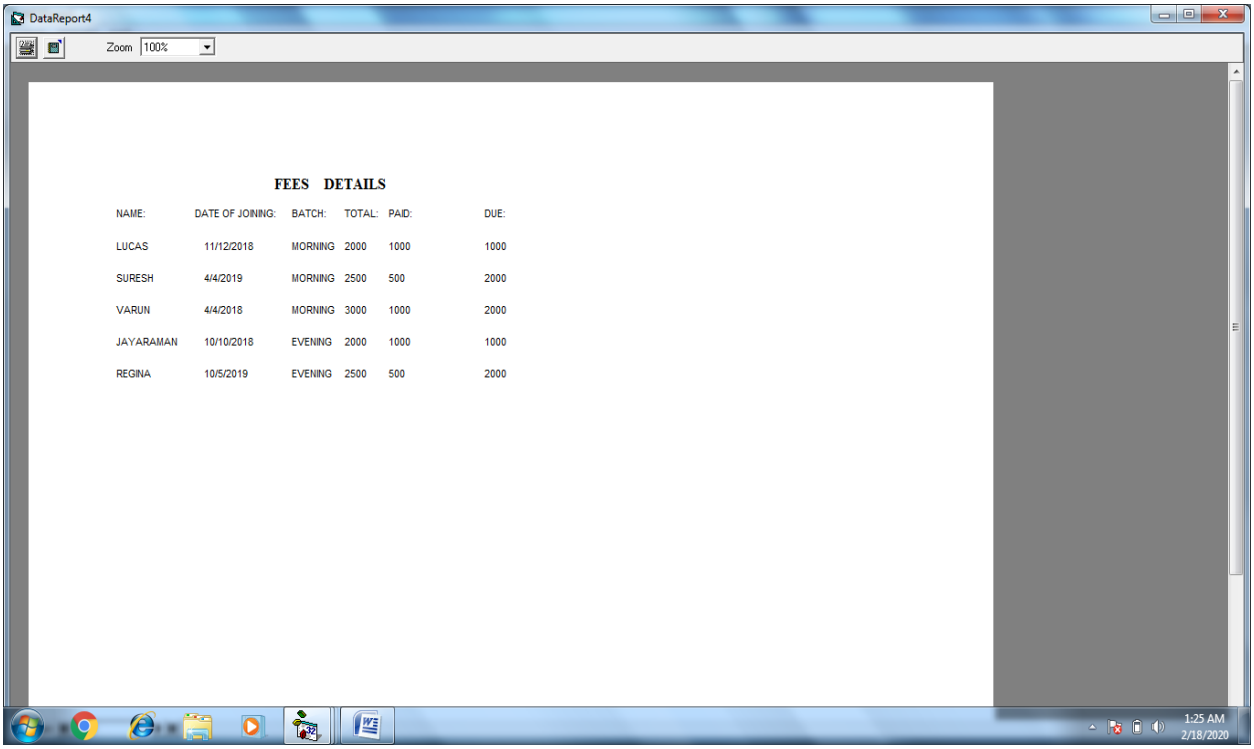

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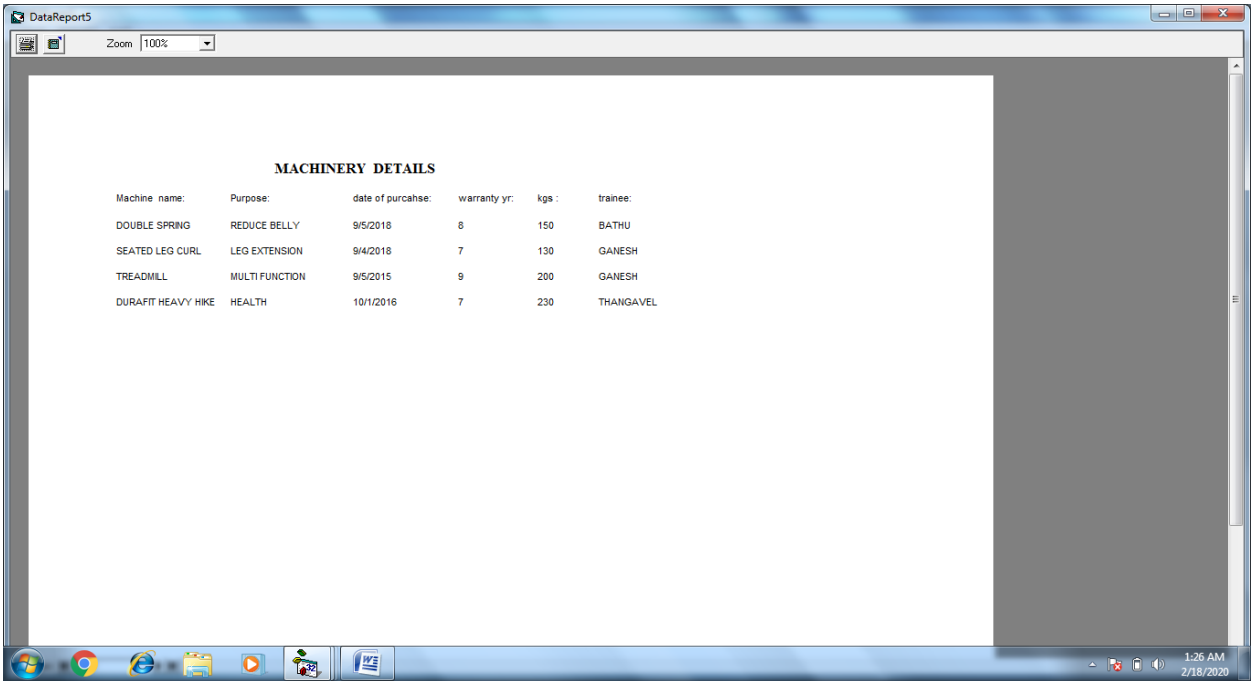
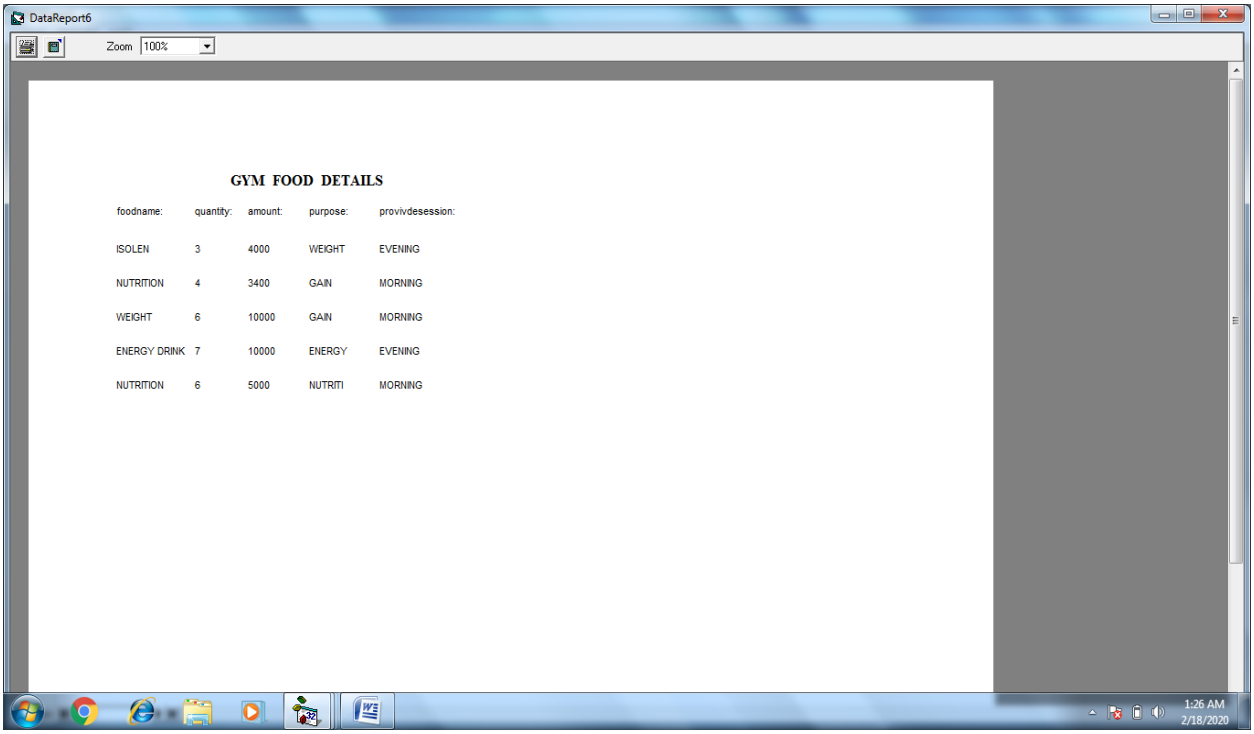


GYM FOOD DETAILS REPORT



SYSTEM TESTING AND IMPLEMENTION

CHAPTER V

SYSTEM TESTING AND IMPLEMENTION

5.1 INTRODUCTION

System testing is a critical element of quality assurance and represents the ultimate review of analysis, design and coding. Test case design focuses on asset of techniques for the creation of test case that meets overall testing objective. When a system is developed it is hoped that it performs properly. The main purpose of testing an information system is to find the errors and correct them. The scope of system testing is comprehensive evaluation of the programs, manual procedures, computer operation and controls. System testing is the process of checking whether the system is working according to the objective and requirement. All testing is to be conducted in accordance to the test condition specified earlier. This will ensure that the test requirement and the testing are done in a symmetric manner.

5.2 TESTING METHODS

UNIT TESTING

In this testing, each module is tested individually and integrated the overall system. Unit testing focuses verification efforts on the smallest unit of software design in the module. This is known as ‘module’ testing. The module of the system is tested separately. This is carried out during programming stage itself. In this testing step it is determined if each module. There are some validation checks also for fields.

INTEGRATION TESTION

The entire project has been split into small programs. Each of these single programs gives a frame as an output. These program were tested individually and lastly all these programs where combined together by creating another program where all these constructors were used. It gives a lot of problem by not functioning in an integrated manner.

VALIDATION TESTING

This test provides final assurance that the software meets all functional, behavioral and performance requirements. The testing verifies that overall system function and performance is achieved.

SYSTEM TESTING

It is the stage implementation, which ensures that the system works accurately and affectively before the live operation commences. It is a confirmation to show the user that the system must be tested and show that the system will operate successfully and produce expected results under expected condition. The purpose of system testing is to identify and correct errors.

ACCEPTANCE TESTING

When custom software is built for one customer, a series of acceptance tests are conducted to enable the customer to validate all requirements an acceptance test can range from an informal “test drive” to a planned systematically executed series of tests. In facts, acceptance cumulative errors that might degrade the system overtime.

5.3 IMPLEMENTATION

Implementation involves the conversation of a basic application to a complete replacement with a computer system. It is the process of converting a new or revised system design into an operational one. The proposed system may be totally new, replacing an existing manual system or it may be major modification of an existing system. In either case, proper implementation is essential to provide a reliable system to meet organization‘s requirement.

In system implementation user training is crucial for minimizing resistance to change and giving the new system a chance to prove its worth. User training is not needed in this system because it is user friendly. The output of this system is compared with of the manual system that is running parallel, for the effective and efficient implementation for computerized system that has developed.

CONCLUSION AND FUTURE ENHANCEMENT

CHAPTER VI

CONCLUSION AND FUTURE ENHANCEMENT

6.1 CONCLUSION

The system was developed to satisfy the needs of the “Fitness Centre” in maintaining integrated information about the gym trainees.

- The system is user friendly
- It maintain all records of the gym trainees
- It is easy accessible
- It provides platform for future modification

This project was developed, tested and implemented according to the equipment of fitness Centre. The software has been tested with the sample data and satisfactory result has been obtained. It is developed in such a way that the user can take a backup of data at regular intervals.

6.2 FUTURE ENHANCEMENTS

The new system has been developed after the in-depth analysis of the problem and environment of the organization. The software has been developed in such a way that it will be flexible to add any additional procedure based on requirements. There will be only a minimum effort needed for a programmer to develop this package in order to make it accustomed for future needs. This system is developed using MS- Access as back end so it does not support distributed database.

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