Online Tax mapping for House hold
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Abstract

Abstract :-

The main aim of our project is to prepare a Tax summary of a client. In Tax Mapping system, a client registers himself enters all the details necessary for preparation of Tax Summary after successful submission client can calculate the payable tax information and all the details. After all the procedures are client can print the tax information. The TAX MAPPING FOR HOUSE HOLD is a web-based application that can be accessed throughout the World. Anyone can access this web application to know about tax, how much tax is payable for this place.

This system can be used as an application for the ONLINE TAX MAPPING FOR HOUSE HOLD to calculate the tax for house hold. Client logging should be able to calculate the tax.

Introduction

Introduction:

Tax mapping portal is a web based asp.net final year project which can help to calculate the taxes for client house through the given information by the client. This system will automatically calculate the tax.

The Project "**Online tax mapping for household**" gives us the information about the how much tax will pay of our property for household in any city. Property tax is an amount that a property/land owner pays annually to the local or state government. The municipal authorities collect this tax from citizens as revenue to fund the upkeep and improvement of civic amenities, education, transportation, recreation, local infrastructure, etc.

In India, property tax is levied on assets that classify as 'real property' and mostly include land and buildings. Property owners can pay their property tax online or offline based on its valuation and appraisal as per the locality

The amount collected as property tax by a municipality, a municipal corporation or a panchayat within a state or city can vary depending on the locality's type of levy, amenities available, and other similar factors.

This application mainly designs for "ONLINE TAX MAPPING FOR HOUSEHOLD". The main goal of this application is to provide some extra feature to calculate the tax how much you pay for your property.

This web application is general purpose web application used by every visitor. The website has administration control the actual activity.

This web application also provides user registration faculty using this faculty he/she can access many of the feature that are not accessible by every visitor.

In Online "**Tax Mapping For House Hold**" we use C# and MySQL Database. This project has three modules i.e., admin and user.

1. Admin module

2. User module

3. Guest module

Admin module

- He is treated as an owner of web site. He should also have rights to accept the registration of the profile on our page (unless the user should not able to login in to site).
- He should able to verify the detail which are entered by the user and give them permission to access the web page.
- He should able to edit, delete, and update the user profile.
- He should able to add/edit the Fields of web pages like he can change the interest rate or any other field's value according to calculation of tax with the Validation rule
- Administrator having simple and advanced search facilities for search tax mapping information like user name, mobile number, location, how much tax pay by the user.

User:-

- Only a valid user can login into the page and use all features of the websites, without login he can only see the website and some of its feature like just see what the tax pay for a single square feet. He cannot calculate the tax for its whole area without login.
- A user should calculate tax through the given features.
- User can use all the features like search our tax, contact us, send the feedback etc.
- They can able to Change and recover the password by using the system interface.
- He can able to secured login with given credentials.

Guest:-

- Guest can only see the content of our websites and he can't use any service of the website.
- Guest users can't have more than read access to data.
- Guest users can't have the update or delete permissions on objects.
- Guest users can't have View All or Modify All access on objects.

Existing system:

These days it is very difficult to see the tax rate and find the tax amount for your selected area and also take much more time to resolve this problem. Our web application provides to the client very easy method to see the tax rate and also calculate the tax in few seconds to fill some feed.

To overcome this problem online tax mapping is the best solution.

About Project:

Online Tax mapping system is a simple project, which is designed by using ASP.NET three tire architecture, MySQL Server, bootstrap, JavaScript and CSS. Taking about the project, it contains an admin where he controls the whole system. The admin plays an important role in the management of this system. And also provide to some important feature to user to view our profile and update our profile and also see our previous calculated tax.

PURPOSE OF THE SYSTEM:

The main aim of our project is to prepare a Tax summary of a client. In Tax Mapping system, a client registers himself enters all the details necessary for preparation of Tax Summary after successful submission client can calculate the payable tax information and all the details. After all the procedures are client can print the tax information. The TAX MAPPING FOR HOUSE HOLD is a web-

based application that can be accessed throughout the World. Anyone can access this web application to know about tax, how much tax is payable for this place.

This system can be used as an application for the ONLINE TAX MAPPING FOR HOUSE HOLD   to calculate the tax for house hold. Client logging should be able to calculate the tax.

Scope:-

In this modern era every country wants to become no. 1 in world. To develop a country, Tax is the primary source of income for the government. Government uses tax to provide medical facility, transport facilities, technologies facilities and other convenient facilities. To collect tax, we need a well organise application so that every country man can pay tax easily.

Government can use this tax mapping application for collecting house hold tax, so that government can provide water facility security to every house hold. In this web application a client can calculate his house hold tax by providing user data's easily from anywhere.

Overview: -

In this TAX MAPPING web application, any client can calculate his/her household tax by entering the user data in different fields from anywhere. In this web application any client needs to create an account, after account creation he/her will login. After login the client able for calculating his/her household tax. When client would successfully login the web app will demand details like name, contacts, state, city, pin code, area value, of the area. after taking these details the web app would calculate client's household tax.

The client can also save his/her calculated tax .in future he/her can view the same by simply login with user id and password. If the client has more than one house, he/her can also calculate house hold tax for all the houses by single account.

System Analysis

Existing System:-

The Existing system is a computerized system but which is maintained at individual databases i.e. in Microsoft Sql 2014, it's a time delay process. And maintaining all the records in M.S sql is difficult. If they want any record, they have to search all the records. It doesn't provide multiple user accessibility and also doesn't have different user privileges. So, the system is not accessible for all the employees of the organization.

Limitations in Existing System: -

- In this application the client can not calculate tax without login.
- It is a web-based application that needs internet connection to run.
- There is no centralized database maintenance.
- In this web application user can not update previous calculated tax.

Proposed System:-

The Proposed system is a computerized system but which is maintained at Centralized databases i.e. in automated forms it's a very fast process. And maintaining all the records in online systems database which makes it very easy to access and retrieve data from the database. If they want any record they can easily search all the records.

- This project allows user to register through online.
- The students can easily access old calculated Tax.
- Client can directly communicate with the admin through the contact us page regarding any queries.
- And this project has many additional features.

Advantages over Existing System:-

- Client can access this web application from anywhere.
- Client can easily signup to this web page and use the services.
- In this web application any client can calculate multiple household tax.
- In this web application client can also see the previous calculated tax.
- Client can also update him/ her profile details.
- This system provides centralized database maintenance.

Feasibility Report

Feasibility Report

Preliminary investigation examine project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation:

- Technical Feasibility
- Operation Feasibility
- Economical Feasibility

Technical Feasibility

The technical issue usually raised during the feasibility stage of the investigation includes the following:

- Does the necessary technology exist to do what is suggested?
- Do the proposed equipment's have the technical capacity to hold the data required to use the new system?
- Will the proposed system provide adequate response to inquiries, regardless of the number or location of users?
- Can the system be upgraded if developed?
- Are there technical guarantees of accuracy, reliability, ease of access and data security.

Earlier no system existed to cater to the needs of 'Secure Infrastructure Implementation System'. The current system developed is technically feasible. It is a web based user interface for audit workflow at NIC-CSD. Thus it provides an easy access to the users.

The database's purpose is to create, establish and maintain a workflow among various entities in order to facilitate all concerned users in their various capacities or roles. Permission to the users would be granted based on the roles specified. Therefore, it provides the technical guarantee of accuracy, reliability and security. The software and hard requirements for the development of this project are not many and are already available in-house at NIC or are available as free as open source. The work for the project is done with the current equipment and existing software technology. Necessary bandwidth exists for providing a fast feedback to the users irrespective of the number of users using the system.

Operational Feasibility:-

Proposed projects are beneficial only if they can be turned out into information system. That will meet the organization's operating requirements. Operational feasibility aspects of the project are to be taken as an important part of the project implementation. Some of the important issues raised are to test the operational feasibility of a project includes the following: -

- Is there sufficient support for the management from the users?
- Will the system be used and work properly if it is being developed and implemented?
- Will there be any resistance from the user that will undermine the possible application benefits?

This system is targeted to be in accordance with the above-mentioned issues. Beforehand, the management issues and user requirements have been taken into consideration. So there is no question of resistance from the users that can undermine the possible

application benefits. The well-planned design would ensure the optimal utilization of the computer resources and would help in the improvement of performance status.

Economic Feasibility:-

A system can be developed technically and that will be used if installed must still be a good investment for the organization. In the economical feasibility, the development cost in creating the system is evaluated against the ultimate benefit derived from the new systems. Financial benefits must equal or exceed the costs.

The system is economically feasible. It does not require any addition hardware or software. Since the interface for this system is developed using the existing resources and technologies available at NIC, there is nominal expenditure and economical feasibility for certain.

SOFTWARE

REQUIRMENT

SPECIFICATION

The software, Site Explorer is designed for management of web sites from a remote location.

INTRODUCTION

Purpose:

The main purpose for preparing this document is to give a general insight into the analysis and requirements of the existing system or situation and for determining the operating characteristics of the system.

Scope:

This Document plays a vital role in the development life cycle (SDLC) and it describes the complete requirement of the system. It is meant for use by the developers and will be the basic during testing phase. Any changes made to the requirements in the future will have to go through formal change approval process.

DEVELOPERS RESPONSIBILITIES OVERVIEW:

The developer is responsible for:

- Developing the system, which meets the SRS and solving all the requirements of the system?

- Demonstrating the system and installing the system at client's location after the acceptance testing is successful.

- Submitting the required user manual describing the system interfaces to work on it and also the documents of the system.

- Conducting any user training that might be needed for using the system.

- Maintaining the system for a period of one year after installation.

FUNCTIONAL REQUIREMENTS:

OUTPUT DESIGN:-

Outputs from computer systems are required primarily to communicate the results of processing to users. They are also used to provides a permanent copy of the results for later consultation. The various types of outputs in general are:

- External Outputs, whose destination is outside the organization.

- Internal Outputs whose destination is with in organization and they are the
- User's main interface with the computer.
- Operational outputs whose use is purely with in the computer department.
- Interface outputs, which involve the user in communicating directly with

OUTPUT DEFINITION

The outputs should be defined in terms of the following points:

- Type of the output
- Content of the output
- Format of the output
- Location of the output
- Frequency of the output
- Volume of the output

- Sequence of the output

It is not always desirable to print or display data as it is held on a computer. It should be decided as which form of the output is the most suitable.

For Example

- Will decimal points need to be inserted
- Should leading zeros be suppressed.

Output Media:

In the next stage it is to be decided that which medium is the most appropriate for the output. The main considerations when deciding about the output media are:

- The suitability for the device to the particular application.
- The need for a hard copy.
- The response time required.
- The location of the users
- The software and hardware available.

Keeping in view the above description the project is to have outputs mainly coming under the category of internal outputs. The main outputs desired according to the requirement specification are:

The outputs were needed to be generated as a hot copy and as well as queries to be viewed on the screen. Keeping in view these outputs, the format for the output is taken from the outputs, which are currently being obtained after manual processing. The standard printer is to be used as output media for hard copies.

INPUT DESIGN

Input design is a part of overall system design. The main objective during the input design is as given below:

- To produce a cost-effective method of input.

- To achieve the highest possible level of accuracy.

- To ensure that the input is acceptable and understood by the user.

INPUT STAGES:

The main input stages can be listed as below:

- Data recording

- Data transcription

- Data conversion

- Data verification

- Data control

- Data transmission

- Data validation

- Data correction

INPUT TYPES:

It is necessary to determine the various types of inputs. Inputs

can be categorized as follows:

- External inputs, which are prime inputs for the system.

- Internal inputs, which are user communications with the system.

- Operational, which are computer department's

  communications to the system?

- Interactive, which are inputs entered during a dialogue.

INPUT MEDIA:

At this stage choice has to be made about the input media. To conclude about the input media consideration has to be given to;

- Type of input

- Flexibility of format

- Speed

- Accuracy

- Verification methods

- Rejection rates

- Ease of correction

- Storage and handling requirements

- Security

- Easy to use

- Portability

Keeping in view the above description of the input types and input media, it can be said that most of the inputs are of the form of internal and interactive. As
Input data is to be the directly keyed in by the user, the keyboard can be considered to be the most suitable input device.

ERROR AVOIDANCE

At this stage care is to be taken to ensure that input data remains accurate form the stage at which it is recorded upto the stage in which the data is accepted by the system. This can be achieved only by means of careful control each time the data is handled.

ERROR DETECTION

Even though every effort is make to avoid the occurrence of errors, still a small proportion of errors is always likely to occur, these types of errors can be discovered by using validations to check the input data.

DATA VALIDATION

- Procedures are designed to detect errors in data at a lower level of detail. Data validations have been included in the system in almost every area where there is a possibility for the user to commit errors. The system will not accept invalid data. Whenever an invalid data is keyed in, the system immediately prompts the user and the user has to again key in the data and the system will accept the data only if the data is correct. Validations have been included where necessary

The system is designed to be a user friendly one. In other words the system has been designed to communicate effectively with the user. The system has been designed with pop up menus.

USER INTERFACE DESIGN

It is essential to consult the system users and discuss their needs while designing the user interface:

USER INTERFACE SYSTEMS CAN BE BROADLY CLASIFIED AS:

1. User initiated interface the user is in charge, controlling the progress of the user/computer dialogue. In the   computer-initiated interface, the computer selects the next stage in the interaction.

2. Computer initiated interfaces

In the computer initiated interfaces the computer guides the progress of the user/computer dialogue. Information is displayed and the user response of the computer takes action or displays further information.

USER_INITIATED INTERGFACES

User initiated interfaces fall into tow approximate classes:

1. Command driven interfaces: In this type of interface the user inputs commands or queries which are interpreted by the computer.

2. Forms oriented interface: The user calls up an image of the form to his/her screen and fills in the form. The forms oriented interface is chosen because it is the best choice.

COMPUTER-INITIATED INTERFACES

The following computer – initiated interfaces were used:

1. The menu system for the user is presented with a list of alternatives and the user chooses one; of alternatives.

2. Questions – answer type dialog system where the computer asks question and takes action based on the basis of the users reply.

Right from the start the system is going to be menu driven, the opening menu displays the available options. Choosing one option gives another popup menu with more options. In this way every option leads the users to data entry form where the user can key in the data.

ERROR MESSAGE DESIGN:

The design of error messages is an important part of the user interface design. As user is bound to commit some errors or other while designing a system the system should be designed to be helpful by providing the user with information regarding the error he/she has committed.

This application must be able to produce output at different modules for different inputs.

PERFORMANCE REQUIREMENTS

Performance is measured in terms of the output provided by the application.

Requirement specification plays an important part in the analysis of a system. Only when the requirement specifications are properly given, it is possible to design a system, which will fit into required environment. It rests largely in the part of the users of the existing system to give the requirement specifications because they are the people who finally use the system. This is because the requirements have to be known during the initial stages so that the system can be designed according to those requirements. It is very difficult to

change the system once it has been designed and on the other hand designing a system, which does not cater to the requirements of the user, is of no use.

The requirement specification for any system can be broadly stated

as given below:

- The system should be able to interface with the existing system

- The system should be accurate

- The system should be better than the existing system

The existing system is completely dependent on the user to perform

all the duties.

SOFTWARE AND HARDWARE REQUIREMENT SPECIFICATION

Software Requirements

Server-Side Requirements

Web server	Microsoft SQL 2014
Server-side Language	ASP.NET(C#)
Data base Server	MYSQL
Web browser	Google Chrome Or Any Equivalent Browser
Operating System	Windows 7 Or Any Higher Version

Client-Side Requirements

Web Browser	GOOGLE CHROME OR ANY EQUVIVALENT BROWSER
Operating System	Windows 7 Or Any Higher Version

Hardware Requirements

Server-Side Requirements

RAM	1 GB
HARD DISK	20GB
PROCESSOR	2.0 GHz

Clint Side Requirements

RAM	512 MB
HARD DISK	10GB
PROCESSOR	1.0GHz

SELECTED SOFTWARE

#MICROSOFT .NET FRAMEWOR

The .NET Framework is a new computing platform that simplifies application development in the highly distributed environment of the Internet. The .NET Framework is designed to fulfil the following objectives.

- To provide a consistent object-oriented programming environment whether object code is stored and executed locally. Executed locally but internet – distributed, or executed remotely.
- To provide a code-execution environment that minimizes software deployment and versioning conflicts.
- To provide a code-execution environment that guarantees safe execution of code, including code created by an unknown or semi-trusted third party.
- To provide a code-execution environment that eliminates the performance problems of scripted or interpreted environments.
- To make the developer experience consistent across widely varying types of application, such as Windows-based application and Web-based application.
- To build all communication on industry standards to ensure that code based on the .NET Framework can integrate with any other code.

The .NET Framework has two main components; the common language runtime and the .NET Framework class library. The common language runtime is the foundation of the .NET Framework. You can think of the runtime as an agent that manages code at execution time, providing core services such as memory management, thread management, and remoting,

while also enforcing strict type safety and other forms of code accuracy that ensure security and robustness. In fact, the concept of code management is a fundamental principle of the runtime. Code that targets the runtime is known as managed code, while code that does not target the runtime is known as unmanaged code.

The class library, the other main component of the .NET Framework, is a comprehensive, object-oriented collection of reusable types that you can use to develop applications ranging from traditional command-line or graphical user interface (GUI) applications to applications based on the latest innovations provided by ASP.NET, such as Web Forms and XML Web services.

The .NET Framework can be hosted by unmanaged components that load the common language runtime into their processes and initiate the execution of managed code, thereby creating a software environment that can exploit both managed and unmanaged features. The .NET Framework not only provides several runtime hosts, but also supports the development of third-party runtime hosts.

For example, ASP.NET hosts the runtime to provide a scalable, server-side environment for managed code. ASP.NET works directly with the runtime to enable Web Forms applications and XML Web services, both of which are discussed later in this topic.

Internet Explorer is an example of an unmanaged application that hosts the runtime (in the form of a MIME type extension). Using Internet Explorer to host the runtime enables you to embed managed components or Windows Forms controls in HTML documents. Hosting the runtime in this way makes managed mobile code (similar to Microsoft® ActiveX® controls) possible, but with significant improvements that only managed code can offer, such as semi-trusted execution and secure isolated file storage.

ABOUT C#

C# is a general-purpose, modern and object-oriented programming language pronounced as "C sharp". It was developed by Microsoft led by Anders Hejlsberg and his team within the .Net initiative and was approved by the European Computer Manufacturers Association (ECMA) and International Standards Organization (ISO).

Common uses of C#

- C# performs system functions, i.e. from files on a system it can create, open, read, write, and close them.
- C# can handle forms, i.e. gather data from files, save data to a file, through email you can send data, return data to the user.
- You add, delete, modify elements within your database through C#.
- Access cookies variables and set cookies.
- Using C#, you can restrict users to access some pages of your website.
- It can encrypt data.

Characteristics of C#

Five important characteristics make C#'s practical nature possible –

- Simple
- Modern Programming Language
- Type Safe
- Scalable and Updateable
- Component Oriented

Microsoft SQL Server 2014 Storage Engine

Introduction

SQL Server™ 2014 a scalable, reliable, and easy-to-use product that will provide a solid foundation for application design for the next 20 years.

Storage Engine Design Goals

Database applications can now be deployed widely due to intelligent, automated storage engine operations. Sophisticated yet simplified architecture improves performance, reliability, and scalability.

Feature	Description and Benefits
Reliability	Concurrency, scalability, and reliability are improved with simplified data structures and algorithms. Run-time checks of critical data structures make the database much more robust, minimizing the need for consistency checks.

| Scalability	The new disk format and storage subsystem provide storage that is scalable from very small to very large databases. Specific changes include:
	Simplified mapping of database objects to files eases management and enables tuning flexibility. DB objects can be mapped to specific disks for load balancing.
	More efficient space management including increasing page size from 2 KB to 8 KB, 64 KB I/O, variable length character fields up to 8 KB, and the ability to delete columns from existing tables without an unload/reload of the data.
	Redesigned utilities support terabyte-sized databases efficiently.
Ease of Use	DBA intervention is eliminated for standard operations—enabling branch office automation and desktop and mobile database applications. Many complex server operations are automated.

System Design

Design Introduction:-

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization. Once the software requirements have been analysed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software. The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made. These decisions have the final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the customer's requirements into finished software or a system. Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirements into data.

UML Diagrams:

Actor:-

A coherent set of roles that users of use cases play when interacting with the use `cases.
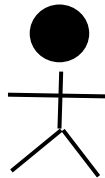
Use case:-

A description of sequence of actions, including variants, that a system performs that yields an observable result of value of an actor.

UML stands for Unified Modelling Language. UML is a language for specifying, visualizing and documenting the system. This is the step while developing any product after analysis. The goal from this is to produce a model of the entities involved in the project which later need to be built. The representation of the entities that are to be used in the product being developed need to be designed.

USECASE DIAGRAMS:

Use case diagrams model behaviour within a system and helps the developers understand of what the user require. The stick man represents what's called an actor. Use case diagram can be useful for getting an overall view of the system and clarifying who can do and more importantly what they can't do. Use case diagram consists of use cases and actors and shows the interaction between the use case and actors.
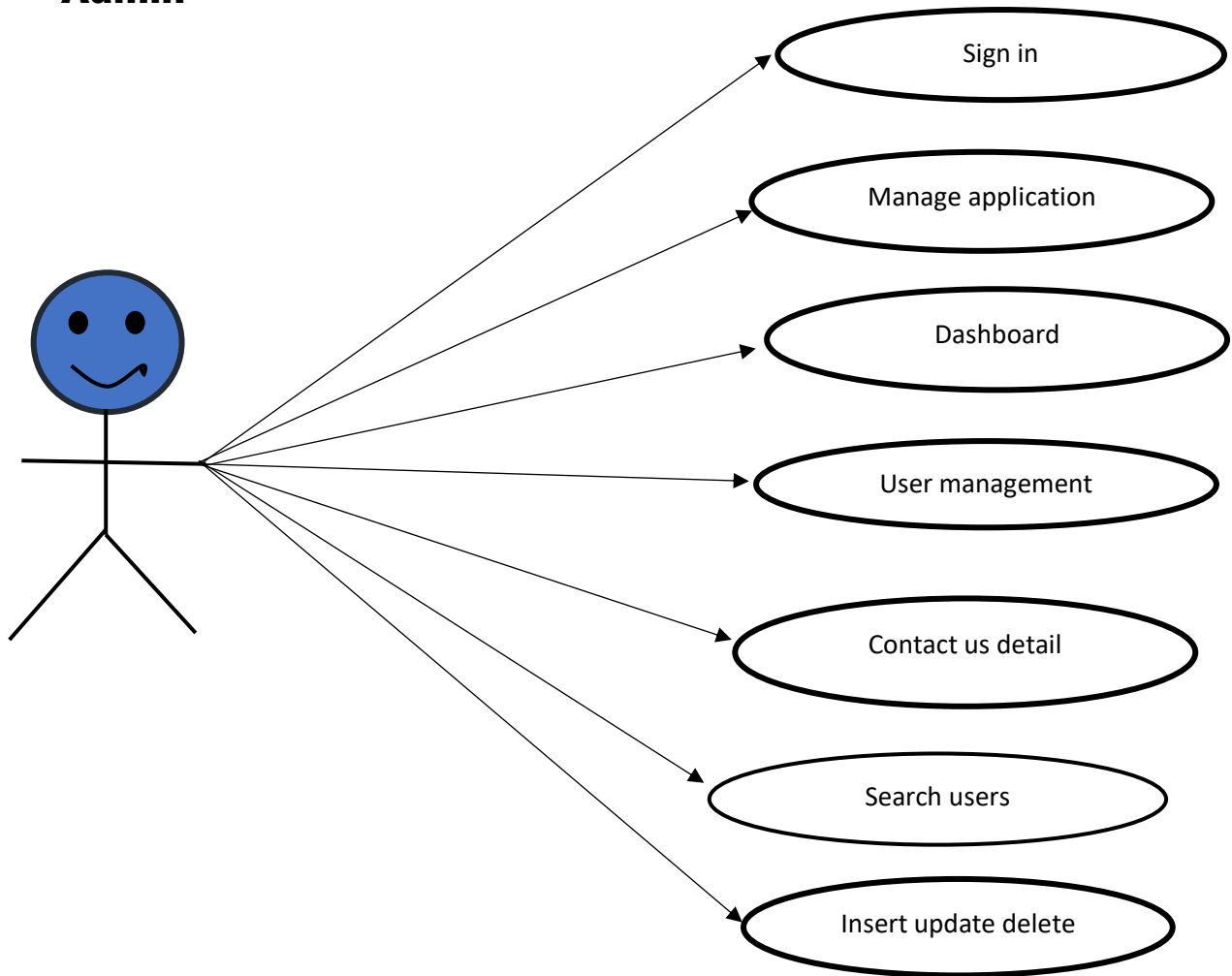
- The purpose is to show the interactions between the use case and actor.
- To represent the system requirements from user's perspective.
- An actor could be the end-user of the system or an external system.

USECASE DIAGRAM:

A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioural diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and actors. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.
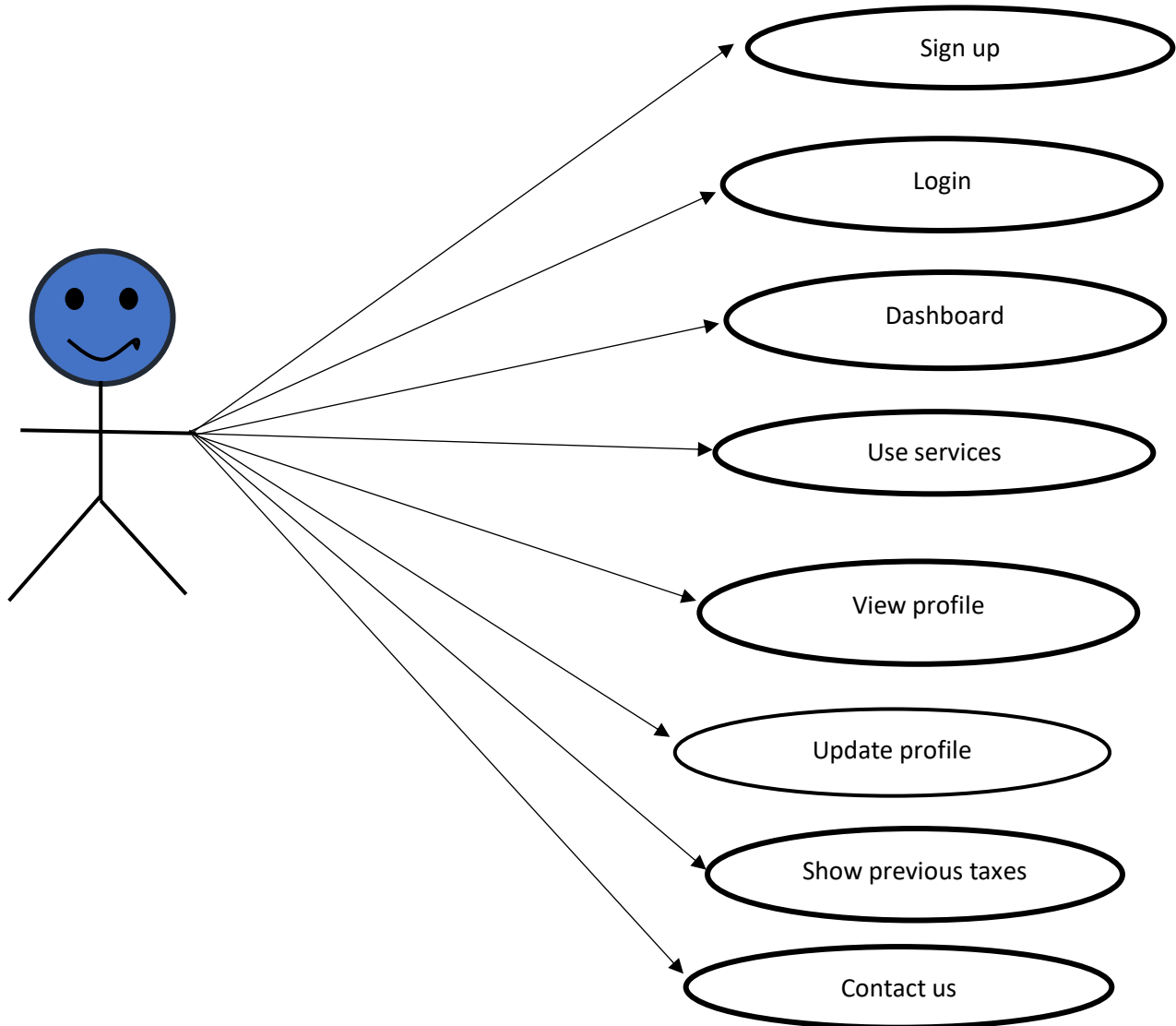
Use Case Diagrams:

Admin

Use Case Diagrams:

User

Sign up

Login

Dashboard

Use services

View profile

Update profile

Show previous taxes

Contact us

ER Diagram:

The Entity-Relationship (ER) model was originally proposed by Peter in 1976 [Chen76] as a way to unify the network and relational database views. Simply stated the ER model is a conceptual data model that views the real world as entities and relationships. A basic component of the model is the EntityRelationship diagram which is used to visually represent data objects. Since Chen wrote his paper the model has been extended and today it is commonly used for database design for the database designer, the utility of the ER model is:

- It maps well to the relational model. The constructs used in the ER model can easily be transformed into relational tables.
- It is simple and easy to understand with a minimum of training. Therefore, the model can be used by the database designer to communicate the design to the end user.
- In addition, the model can be used as a design plan by the database developer to implement a data model in specific database management software.

ER Notation:

There is no standard for representing data objects in ER diagrams. Each modelling methodology uses its own notation. The original notation used by Chen is widely used in academics texts and journals but rarely seen in either CASE tools or publications by non-academics. Today, there are a number of notations used; among the more common are Bachman, crow's foot, and IDEFIX.

All notational styles represent entities as rectangular boxes and relationships as lines connecting boxes. Each style uses a special set of symbols to represent the cardinality of a connection. The notation used in this document is from Martin. The symbols used for the basic ER constructs are:

- **Entities** are represented by labeled rectangles. The label is the name of the entity. Entity names should be singular nouns.

- **Relationships** are represented by a solid line connecting two entities. The name of the relationship is written above the line. Relationship names should be verbs.

- **Attributes**, when included, are listed inside the entity rectangle. Attributes which are identifiers are underlined. Attribute names should be singular nouns.

- **Cardinality** of many is represented by a line ending in a crow's foot. If the crow's foot is omitted, the cardinality is one.

- **Existence** is represented by placing a circle or a perpendicular bar on the line. Mandatory existence is shown by the bar (looks like a 1) next to the entity for an instance is required. Optional existence is shown by placing a circle next to the entity that is optional
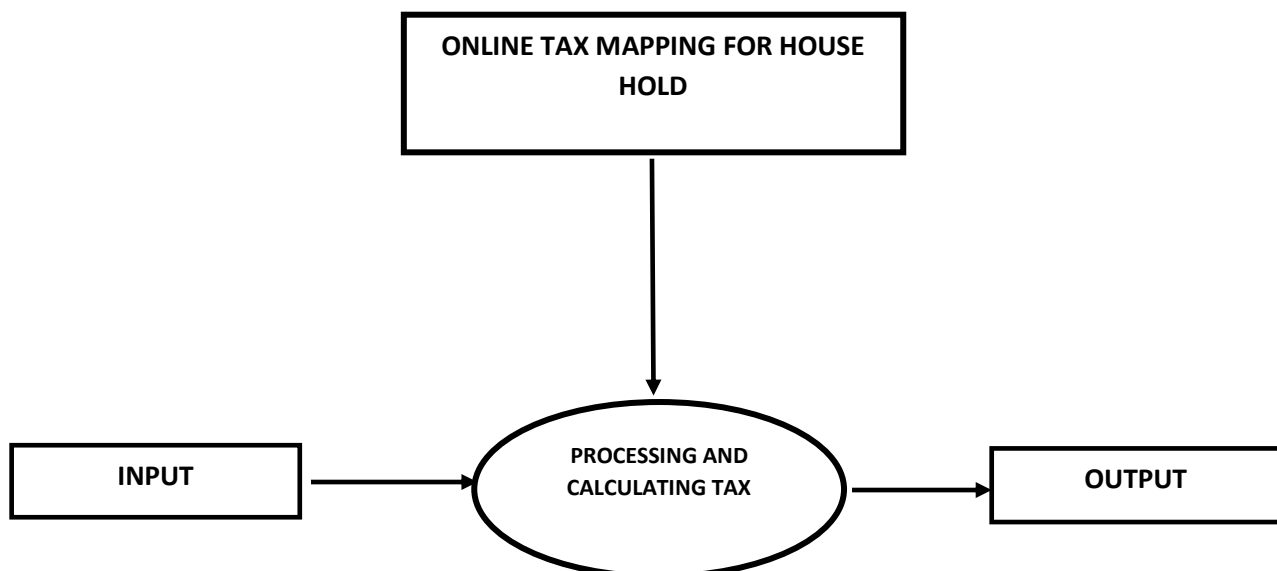
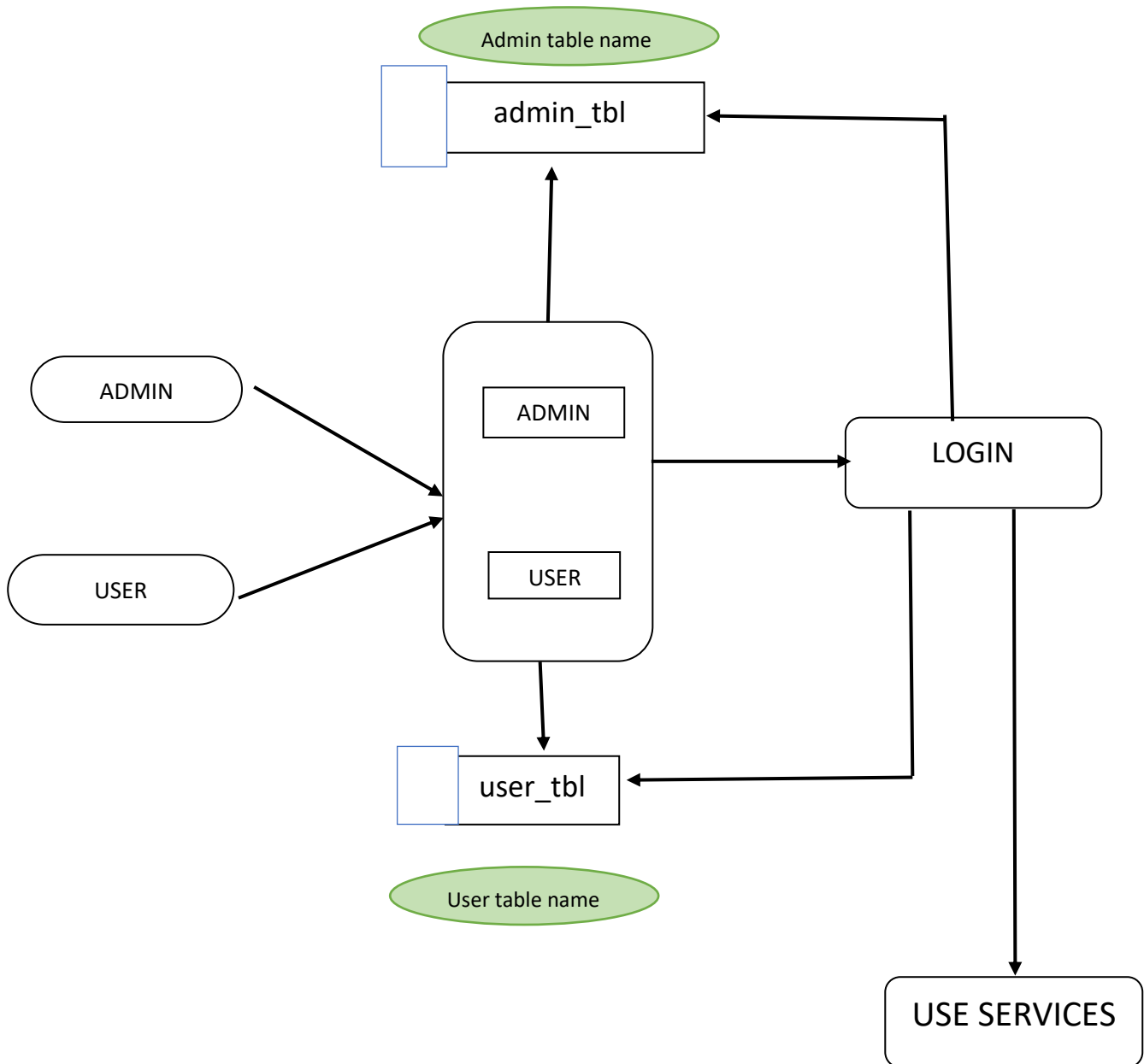# ER DIAGRAM
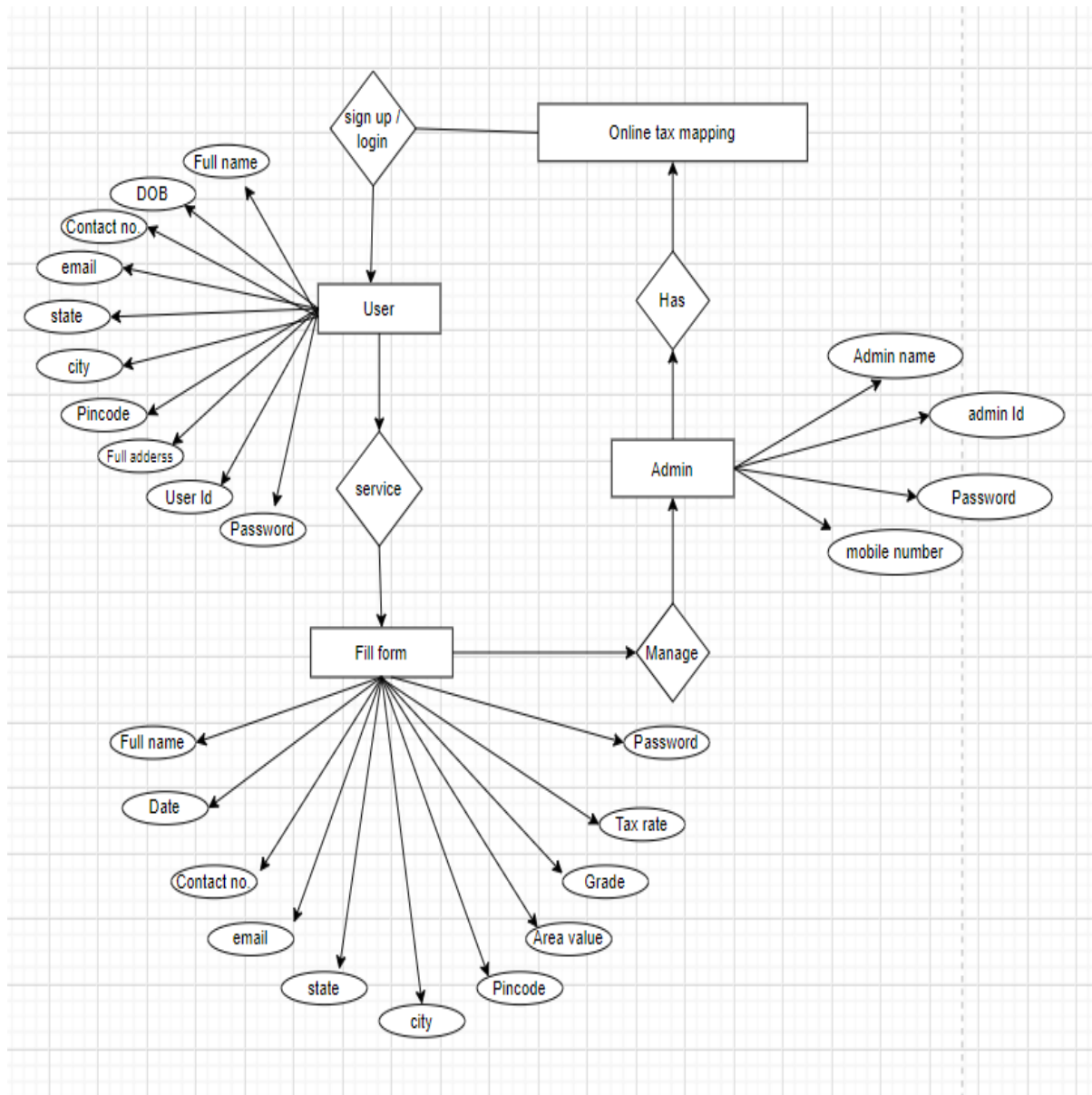
Data flow diagram

      Also known as DFD, Data flow diagrams are used to graphically represent the flow of data in a business information system. DFD describes the processes that are involved in a system to transfer data from the input to the file storage and reports generation.

Data flow diagrams can be divided into logical and physical. The logical data flow diagram describes flow of data through a system to perform certain functionality of a business. The physical data flow diagram describes the implementation of the logical data flow.

0 – level DFD

```
┌──────────────────────────────────┐
│  ONLINE TAX MAPPING FOR HOUSE     │
│              HOLD                 │
└──────────────────────────────────┘
                 │
                 ▼
┌──────────┐   (  PROCESSING AND  )   ┌──────────┐
│  INPUT   │──▶( CALCULATING TAX  )──▶│  OUTPUT  │
└──────────┘   (                 )    └──────────┘
```

1– LEVEL DFD

Admin table name

admin_tbl

ADMIN

ADMIN

USER

ADMIN

USER

LOGIN

user_tbl

User table name

USE SERVICES

2-LEVEL DFD
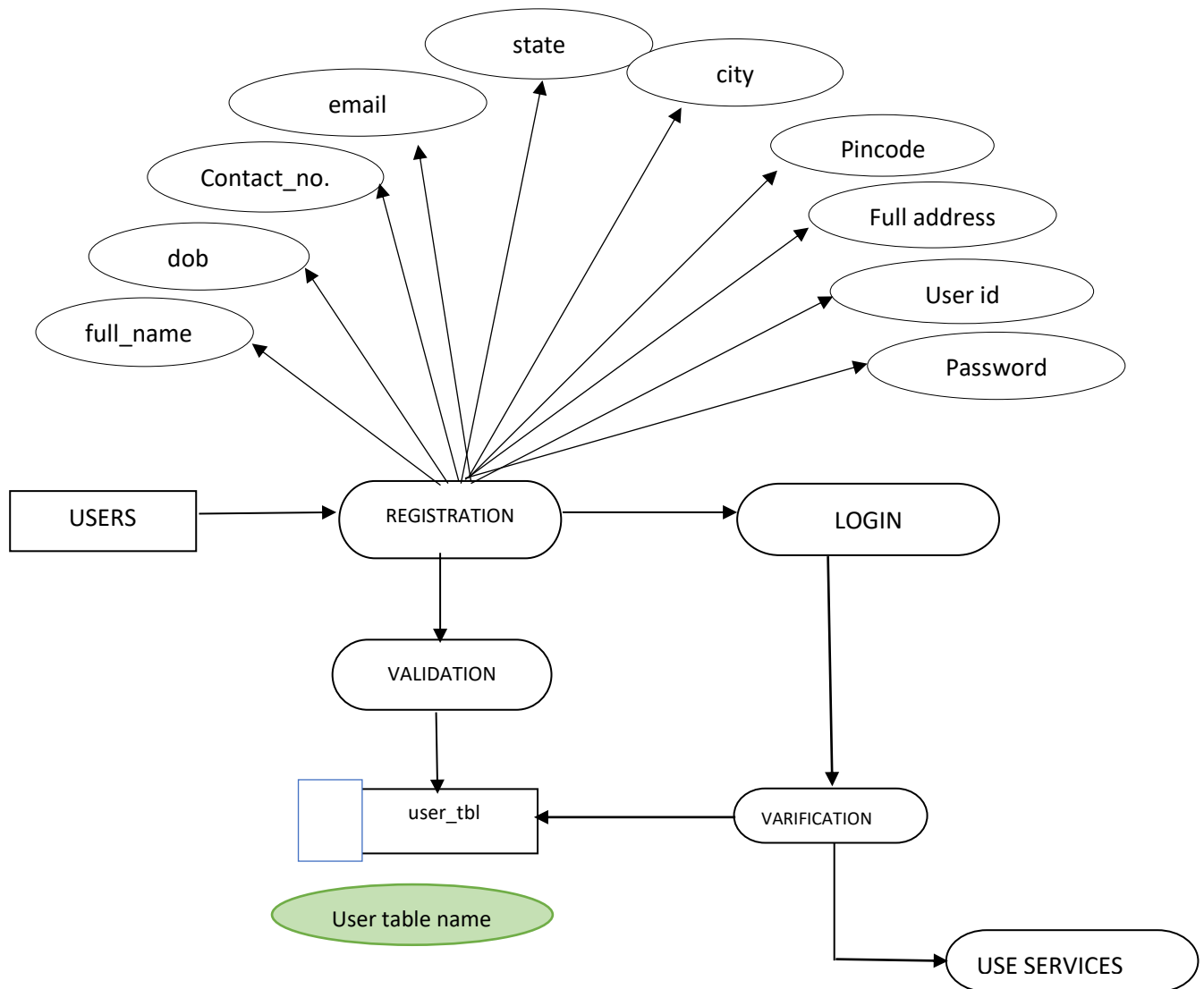
Data Dictionary

Data Dictionary :

A Data Dictionary is a collection of names, definitions, and attributes about data elements that are being used or captured in a database, information system, or part of a research project. It describes the meanings and purposes of data elements within the context of a project, and provides guidance on interpretation, accepted meanings and representation. A Data Dictionary also provides metadata about data elements. The metadata included in a Data Dictionary can assist in defining the scope and characteristics of data elements, as well the rules for their usage and application.
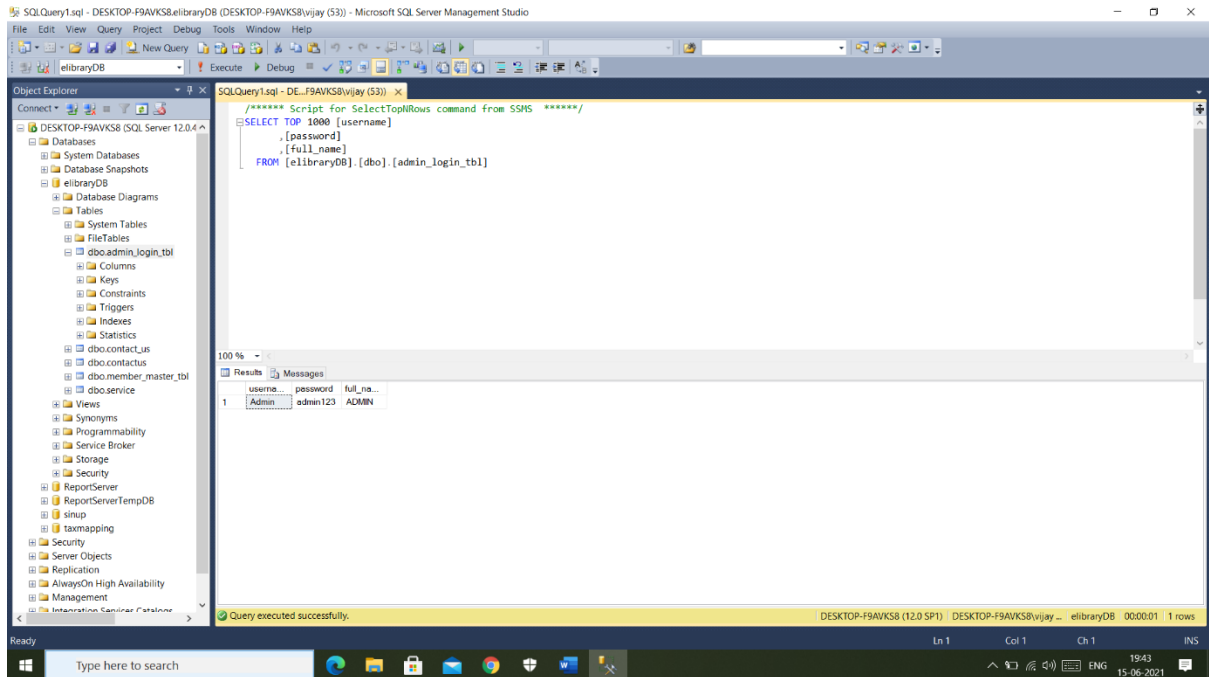
Why Use a Data Dictionary?

Data Dictionaries are useful for a number of reasons. In short, they:

- Assist in avoiding data inconsistencies across a project
- Help define conventions that are to be used across a project
- Provide consistency in the collection and use of data across multiple members of a research team
- Make data easier to analyze
- Enforce the use of Data Standards

Admin

Users

Service

Contact us

SNAPSHOT

HOME PAGE

USER LOGIN

USER SIGNUP

USER PROFILE

SERVICE

ADMIN LOGIN

MEMBER MANAGEMET

ABOUT US

CONTACT US

Tax information

Tax Rate Information

The tax rate grade map is prepared based on the notification "Property Tax Rate Sankalp" issued by the Nagar Palika. There are some types of tax rate zones i.e. Tax Rate Grade A, Tax Rate Grade B, Tax Rate Grade C etc. The tax rate grade boundary map superimposed on the city base map of the municipal council area of town. This map will be used as ready reckoner for the tax collectors of the Nagar Palika of Harda Town.

Grade of Area	Tax Rate
Grade A	0.05
Grade B	0.03
Grade C	0.02
Grade D	0.00

Coding

Home page asp.net

```
<%@ Page Title="" Language="C#"
MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="homepage.aspx.cs"
Inherits="WebApplication3.homepage" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head"
runat="server">
</asp:Content>
<asp:Content ID="Content2"
ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <section>
        <img src="image/banner-gis.jpg" class="img-fluid"/>
    </section>
    <section>
        <div class="container">
            <div class="row">
                <div class="col-12">
                    <center>
                        <h2>Our Features</h2>
                        <p><b>Our 3 Primary Features -</b></p>
                    </center>
                </div>
            </div>
            <div class="row">
                <div class="col-md-4">
                    <center>
                        <img width="150px"
src="image/pngwing.com.png"/>
                        <h4>Calculate Tax For House Hold</h4>
                        <p class="text-justify">Here you can
calculate your tax by given some feed value.</p>
                    </center>
                </div>
                <div class="col-md-4">
                    <center>
                        <img width="150px"
src="image/taxsearch.png"/>
                        <h4>Search Your Tax</h4>
                        <p class="text-justify">In this feature
you Can search your previous calculated Tax</p>
```
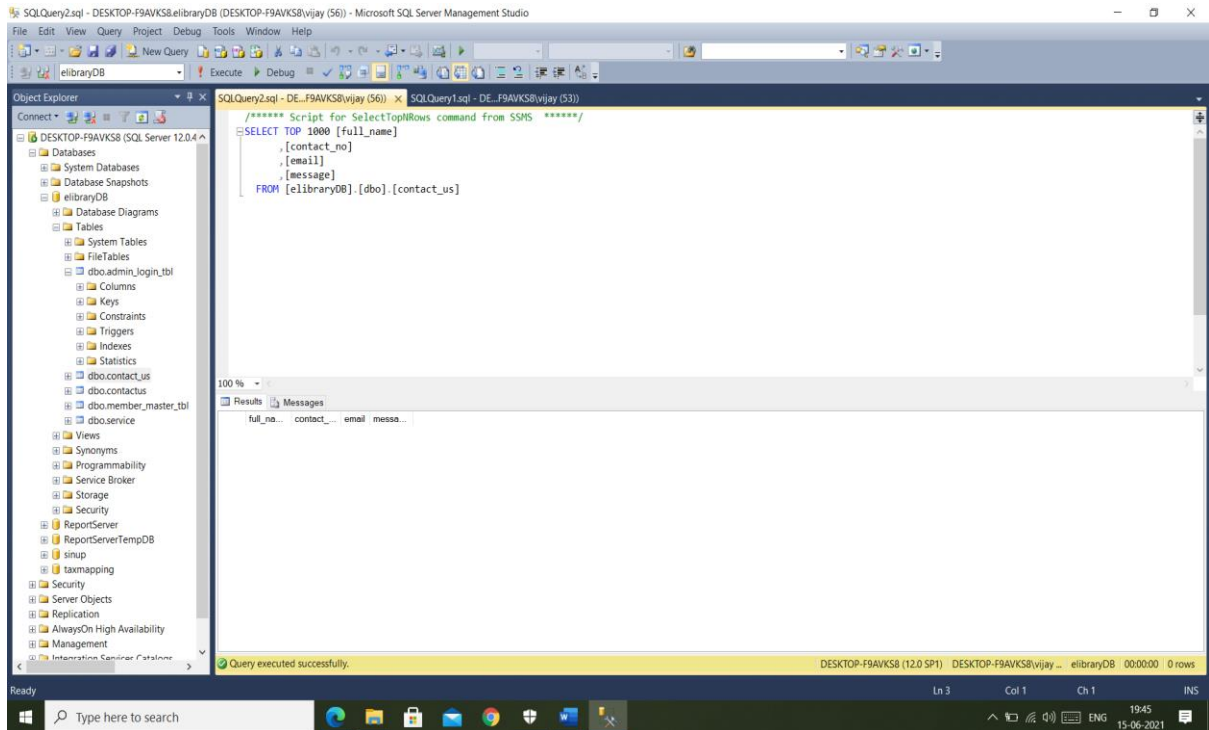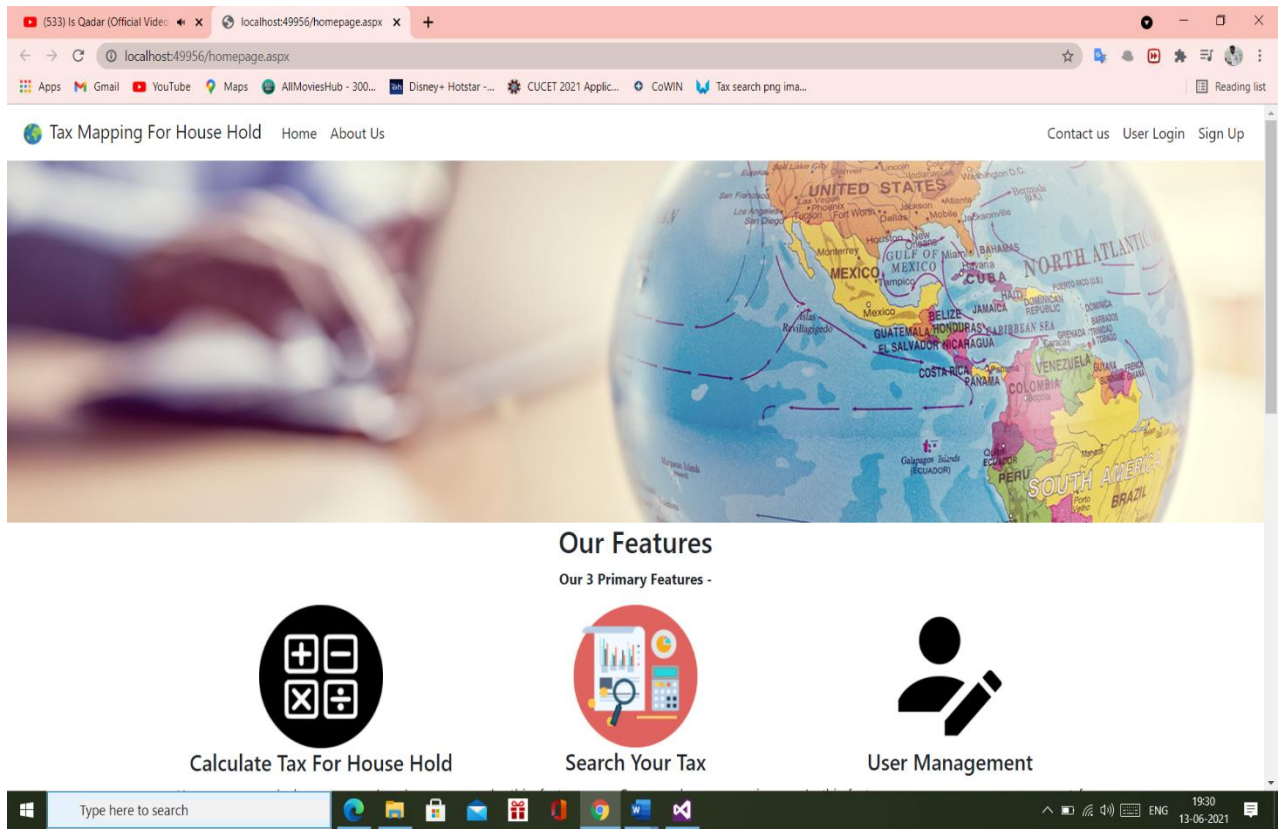
```html
                </center>
            </div>
            <div class="col-md-4">
                <center>
                    <img width="150px"
src="image/userprof.png"/>
                    <h4>User Management</h4>
                    <p class="text-justify">In this feature
user can manage our account for the change password and
other detail. </p>
                </center>
            </div>
        </div>
    </section>
    <section>
        <img src="image/new_banner1.jpg" class="img-fluid"/>
    </section>
    <section>
        <div class="container">
            <div class="row">
                <div class="col-12">
                    <center>
                        <h2>Our Process</h2>
                        <p><b>We have a Simple 3 Step
Process</b></p>
                    </center>
                </div>
            </div>
            <div class="row">
                <div class="col-md-4">
                    <center>
                        <img width="150px" src="imgs/sign-
up.png" />
                        <h4>Sign Up</h4>
                        <p class="text-justify"></p>
                    </center>
                </div>
                <div class="col-md-4">
                    <center>
                        <img width="150px"
src="image/pngwing.com.png"/>
```

```
                    <h4>Calculate Tax</h4>
                    <p class="text-justify"></p>
                </center>
            </div>
            <div class="col-md-4">
                <center>
                    <img width="150px"
src="image/print.png"/>
                    <h4>Print</h4>
                    <p class="text-justify"></p>
                </center>
            </div>
        </div>
    </div>
</section>
</asp:Content>
```

Master page asp.net

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"
Inherits="WebApplication3.Site1" %>
<!DOCTYPE html>
<html>
    <head runat="server">
        <title></title>
        <%--bootstrap css--%>
        <link href="bootstrap/css/bootstrap.min.css" rel="stylesheet" />
        <%--datatables css--%>
        <link href="datatables/css/jquery.dataTables.min.css" rel="stylesheet" />
        <%--fontawesome css--%>
        <link href="fontawesome/css/all.css" rel="stylesheet" />
        <%--our custom css--%>
        <link href="css/customstylesheet.css" rel="stylesheet" />
        <%--jquery--%>
        <script src="bootstrap/js/jquery-3.3.1.slim.min.js"></script>
        <%--popper js--%>
        <script src="bootstrap/js/popper.min.js"></script>
        <%--bootstrap js--%>
        <script src="bootstrap/js/bootstrap.min.js"></script>
        <%--Datatables js--%>
        <script src="datatables/js/jquery.dataTables.min.js"></script>
        <asp:ContentPlaceHolder ID="head" runat="server">
        </asp:ContentPlaceHolder>
    </head>
    <body>
        <form id="form1" runat="server">
            <div>
                <nav class="navbar navbar-expand-lg navbar-light">
                    <a class="navbar-brand" href="#">
                    <img src="image/icon.jpg" width="30" height="30" />
                    Tax Mapping For House Hold
                    </a>
                    <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
                    <span class="navbar-toggler-icon"></span>
                    </button>
                    <div class="collapse navbar-collapse" id="navbarSupportedContent">
                        <ul class="navbar-nav mr-auto">
                            <li class="nav-item active">
                                <a class="nav-link" href="homepage.aspx">Home</a>
                            </li>
                            <li class="nav-item active">
                                <a class="nav-link" href="about.aspx">About Us</a>
                            </li>

                        </ul>
                        <ul class="navbar-nav">
                            <li class="nav-item active">
                                <asp:LinkButton class="nav-link" ID="LinkButton5"
runat="server" OnClick="LinkButton5_Click" Visible="False">Service</asp:LinkButton>
                            </li>
                            <li class="nav-item active">
```

```
                    <asp:LinkButton class="nav-link" ID="LinkButton4"
runat="server" OnClick="LinkButton4_Click">Contact us</asp:LinkButton>
                </li>
                <li class="nav-item active">
                    <asp:LinkButton class="nav-link" ID="LinkButton1"
runat="server" OnClick="LinkButton1_Click">User Login</asp:LinkButton>
                </li>
                <li class="nav-item active">
                    <asp:LinkButton class="nav-link" ID="LinkButton2"
runat="server" OnClick="LinkButton2_Click">Sign Up</asp:LinkButton>
                </li>
                <li class="nav-item active">
                    <asp:LinkButton class="nav-link" ID="LinkButton3"
runat="server" OnClick="LinkButton3_Click" Visible="False">Logout</asp:LinkButton>
                </li>
                <li class="nav-item active">
                    <asp:LinkButton class="nav-link" ID="LinkButton7"
runat="server" OnClick="LinkButton7_Click" Visible="False">Hello user</asp:LinkButton>
                </li>
            </ul>
          </div>
        </nav>
      </div>
      <!-- Main Content Placeholder -->
      <div>
          <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
          </asp:ContentPlaceHolder>
      </div>
      <!-- Main Content Placeholder -->
      <!-- Footer -->
      <footer>
          <div id="footer1" class="container-fluid">
              <div class="row">
                  <div class="col-xs-12 col-sm-12 col-md-12 text-center">
                    <p>
                        <asp:LinkButton class="footerlinks" ID="LinkButton6"
runat="server" OnClick="LinkButton6_Click">Admin Login</asp:LinkButton>
                          
                        <asp:LinkButton class="footerlinks" ID="LinkButton10"
runat="server" OnClick="LinkButton10_Click" Visible="False">Member
Management</asp:LinkButton>
                    </p>
                  </div>
              </div>
          </div>
          <div id="footer2" class="container-fluid">
              <div class="row">
                  <div class="col-xs-12 col-sm-12 col-md-12 text-center">
                    <p style="color:whitesmoke">&copy All right Reversed. <a
class="footerlinks" href="homepage.aspx" target="_blank">Tax Mapping</a></p>
                  </div>
              </div>
          </div>
      </footer>
      <!-- ./Footer -->
    </form>
  </body>
</html>
```
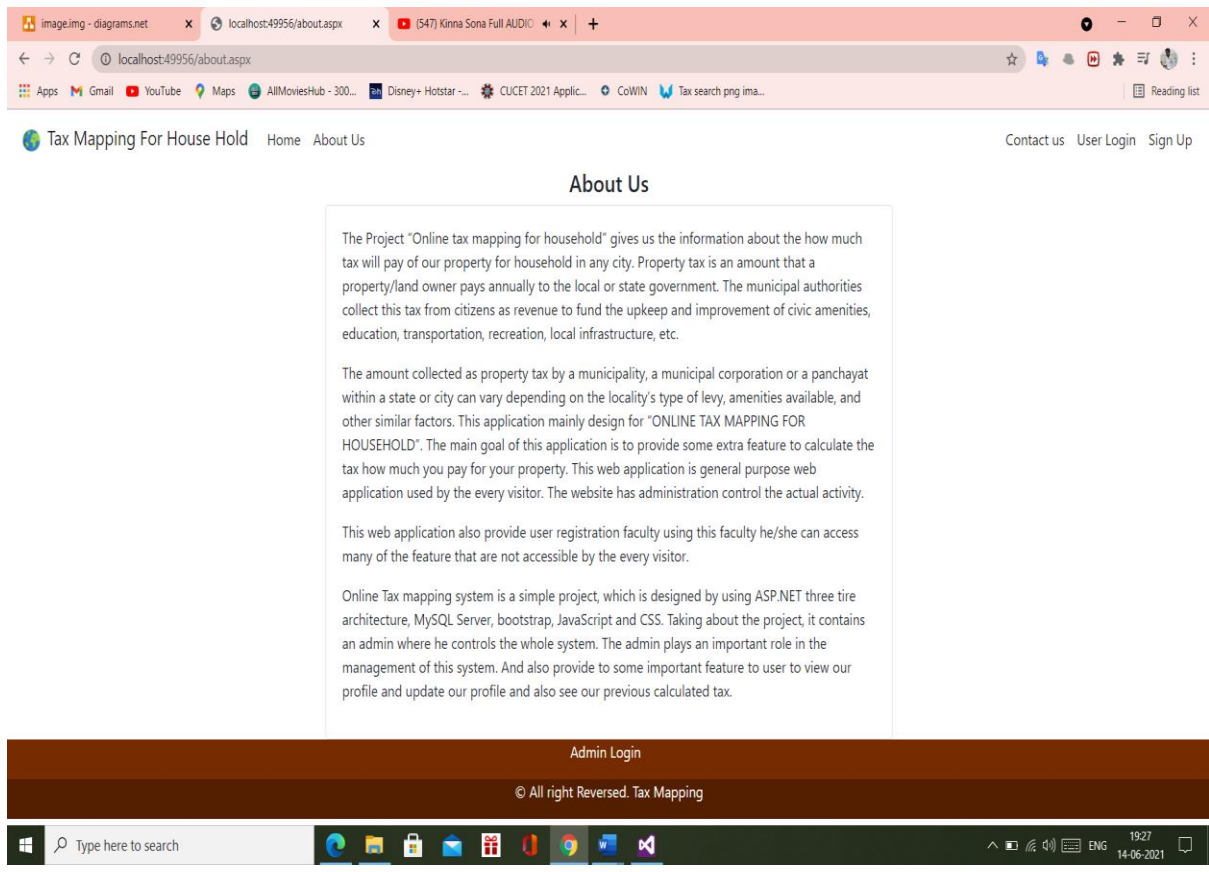
Master page C#

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication3
{
    public partial class Site1 : System.Web.UI.MasterPage
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            try
            {
                if (Session["role"].Equals(""))
                {
                    LinkButton1.Visible = true; // user login link button
                    LinkButton2.Visible = true; // sign up link button

                    LinkButton3.Visible = false; // logout link button
                    LinkButton7.Visible = false; // hello user link button


                    LinkButton6.Visible = true; // admin login link button
                    LinkButton10.Visible = false; // member management link button



                }
                else if (Session["role"].Equals("user"))
                {
                    LinkButton1.Visible = false; // user login link button
                    LinkButton2.Visible = false; // sign up link button
                    LinkButton5.Visible = true;
                    LinkButton3.Visible = true; // logout link button
                    LinkButton7.Visible = true; // hello user link button
                    LinkButton7.Text = "Hello " + Session["username"].ToString();


                    LinkButton6.Visible = true; // admin login link button
                }
                else if (Session["role"].Equals("admin"))
                {
                    LinkButton1.Visible = false; // user login link button
                    LinkButton2.Visible = false; // sign up link button
                    LinkButton5.Visible = true;
                    LinkButton3.Visible = true; // logout link button
                    LinkButton7.Visible = true; // hello user link button
                    LinkButton7.Text = "Hello Admin";


                    LinkButton6.Visible = false; // admin login link button
                    LinkButton10.Visible = true; // member management link button
                }
            }
            catch (Exception ex)
            {
```

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```csharp
        }}

        protected void LinkButton6_Click(object sender, EventArgs e)
        {
            Response.Redirect("adminlogin.aspx");
        }

        protected void LinkButton10_Click(object sender, EventArgs e)
        {
            Response.Redirect("adminmembermanagement.aspx");
        }
        protected void LinkButton5_Click(object sender, EventArgs e)
        {
            Response.Redirect("service.aspx");
        }

        protected void LinkButton4_Click(object sender, EventArgs e)
        {
            Response.Redirect("contactus.aspx");
        }

        protected void LinkButton1_Click(object sender, EventArgs e)
        {
            Response.Redirect("userlogin.aspx");
        }

        protected void LinkButton2_Click(object sender, EventArgs e)
        {
            Response.Redirect("usersignup.aspx");
        }


        //logout button
        protected void LinkButton3_Click(object sender, EventArgs e)
        {
            Session["username"] = "";
            Session["fullname"] = "";
            Session["role"] = "";
            Session["status"] = "";

            LinkButton1.Visible = true; // user login link button
            LinkButton2.Visible = true; // sign up link button
            LinkButton5.Visible = false;

            LinkButton3.Visible = false; // logout link button
            LinkButton7.Visible = false; // hello user link button


            LinkButton6.Visible = true; // admin login link button


            Response.Redirect("homepage.aspx");
        }

        // view profile
        protected void LinkButton7_Click(object sender, EventArgs e)
        {
            Response.Redirect("userprofile.aspx");
        }
    }
}
```

User login asp.net

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="userlogin.aspx.cs"
Inherits="WebApplication3.userlogin" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head"
runat="server"></asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
    <div class="container">
        <div class="row">
            <div class="col-md-6 mx-auto">
                <div class="card">
                    <div class="card-body">
                        <div class="row">
                            <div class="col">
                                <center>
                                    <img width="150px" src="imgs/generaluser.png"/>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <center>
                                    <h3>Member Login</h3>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <hr>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <label>Member ID</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control"
ID="TextBox1" runat="server" placeholder="Member ID"></asp:TextBox>
                                </div>
                                <label>Password</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control"
ID="TextBox2" runat="server" placeholder="Password"
TextMode="Password"></asp:TextBox>
                                </div>
                                <div class="form-group">
```

```
                            <asp:Button class="btn btn-success btn-block
btn-lg" ID="Button1" runat="server" Text="Login" OnClick="Button1_Click"
/>
                        </div>
                        <div class="form-group">
                            <a href="usersignup.aspx"><input class="btn
btn-info btn-block btn-lg" id="Button2" type="button" value="Sign Up"
/></a>
                        </div>
                    </div>
                </div>
            </div>
        </div>
        <a href="homepage.aspx"><< Back to Home</a><br><br>
      </div>
    </div>
  </div>
</asp:Content>
```

User login C#

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication3
{

    public partial class userlogin : System.Web.UI.Page
    {

        string strcon =
ConfigurationManager.ConnectionStrings["con"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        // user login
        protected void Button1_Click(object sender, EventArgs e)
        {
            try
            {
                SqlConnection con = new SqlConnection(strcon);
                if (con.State == ConnectionState.Closed)
                {
                    con.Open();

                }
                SqlCommand cmd = new SqlCommand("select * from
member_master_tbl where member_id='" + TextBox1.Text.Trim() + "' AND
password='" + TextBox2.Text.Trim() + "'", con);
                SqlDataReader dr = cmd.ExecuteReader();
                if (dr.HasRows)
                {
                    while (dr.Read())
                    {
                        Response.Write("<script>alert('Successful
login');</script>");
                        Session["username"] =
dr.GetValue(0).ToString();
```

```
                    Session["fullname"] =
dr.GetValue(2).ToString();
                    Session["role"] = "user";
                    Session["status"] =
dr.GetValue(10).ToString();
                }
                Response.Redirect("homepage.aspx");
            }
            else
            {
                Response.Write("<script>alert('Invalid
credentials');</script>");
            }

        }
        catch (Exception ex)
        {

        }
      }
    }
}
```

User signup asp.net

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="usersignup.aspx.cs" Inherits="WebApplication3.usersignup" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server"></asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <div class="container">
        <div class="row">
            <div class="col-md-8 mx-auto">
                <div class="card">
                    <div class="card-body">
                        <div class="row">
                            <div class="col">
                                <center>
                                    <img width="100px" src="imgs/generaluser.png"/>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <center>
                                    <h4>Member Sign Up</h4>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <hr>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col-md-6">
                                <label>Full Name</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control" ID="TextBox1"
runat="server" placeholder="Full Name"></asp:TextBox>
                                </div>
                            </div>
                            <div class="col-md-6">
                                <label>Date of Birth</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control" ID="TextBox2"
runat="server" placeholder="Password" TextMode="Date"></asp:TextBox>
                                </div>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col-md-6">
                                <label>Contact No</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control" ID="TextBox3"
runat="server" placeholder="Contact No" TextMode="Number"></asp:TextBox>
                                </div>
                            </div>
                            <div class="col-md-6">
                                <label>Email ID</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control" ID="TextBox4"
runat="server" placeholder="Email ID" TextMode="Email"></asp:TextBox>
                                </div>
```

```
                    </div>
                </div>
                <div class="row">
                    <div class="col-md-4">
                        <label>State</label>
                        <div class="form-group">
                            <asp:DropDownList class="form-control" ID="DropDownList1"
runat="server">
                                <asp:ListItem Text="Select" Value="select" />
                                <asp:ListItem Text="Andhra Pradesh" Value="Andhra
Pradesh" />
                                <asp:ListItem Text="Arunachal Pradesh" Value="Arunachal
Pradesh" />
                                <asp:ListItem Text="Assam" Value="Assam" />
                                <asp:ListItem Text="Bihar" Value="Bihar" />
                                <asp:ListItem Text="Chhattisgarh" Value="Chhattisgarh"
/>
                                <asp:ListItem Text="Rajasthan" Value="Rajasthan" />
                                <asp:ListItem Text="Goa" Value="Goa" />
                                <asp:ListItem Text="Gujarat" Value="Gujarat" />
                                <asp:ListItem Text="Haryana" Value="Haryana" />
                                <asp:ListItem Text="Himachal Pradesh" Value="Himachal
Pradesh" />
                                <asp:ListItem Text="Jammu and Kashmir" Value="Jammu and
Kashmir" />
                                <asp:ListItem Text="Jharkhand" Value="Jharkhand" />
                                <asp:ListItem Text="Karnataka" Value="Karnataka" />
                                <asp:ListItem Text="Kerala" Value="Kerala" />
                                <asp:ListItem Text="Madhya Pradesh" Value="Madhya
Pradesh" />
                                <asp:ListItem Text="Maharashtra" Value="Maharashtra" />
                                <asp:ListItem Text="Manipur" Value="Manipur" />
                                <asp:ListItem Text="Meghalaya" Value="Meghalaya" />
                                <asp:ListItem Text="Mizoram" Value="Mizoram" />
                                <asp:ListItem Text="Nagaland" Value="Nagaland" />
                                <asp:ListItem Text="Odisha" Value="Odisha" />
                                <asp:ListItem Text="Punjab" Value="Punjab" />
                                <asp:ListItem Text="Rajasthan" Value="Rajasthan" />
                                <asp:ListItem Text="Sikkim" Value="Sikkim" />
                                <asp:ListItem Text="Tamil Nadu" Value="Tamil Nadu" />
                                <asp:ListItem Text="Telangana" Value="Telangana" />
                                <asp:ListItem Text="Tripura" Value="Tripura" />
                                <asp:ListItem Text="Uttar Pradesh" Value="Uttar Pradesh"
/>
                                <asp:ListItem Text="Uttarakhand" Value="Uttarakhand" />
                                <asp:ListItem Text="West Bengal" Value="West Bengal" />
                            </asp:DropDownList>
                        </div>
                    </div>
                    <div class="col-md-4">
                        <label>City</label>
                        <div class="form-group">
                            <asp:TextBox class="form-control" ID="TextBox6"
runat="server" placeholder="City"></asp:TextBox>
                        </div>
                    </div>
                    <div class="col-md-4">
                        <label>Pincode</label>
                        <div class="form-group">
                            <asp:TextBox class="form-control" ID="TextBox7"
runat="server" placeholder="Pincode" TextMode="Number"></asp:TextBox>
                        </div>
```

```aspx
                    </div>
                </div>
                <div class="row">
                    <div class="col">
                        <label>Full Address</label>
                        <div class="form-group">
                            <asp:TextBox CssClass="form-control" ID="TextBox5"
runat="server" placeholder="Full Address" TextMode="MultiLine" Rows="2"></asp:TextBox>
                        </div>
                    </div>
                </div>
                <div class="row">
                    <div class="col">
                        <center>
                            <span class="badge badge-pill badge-info">Login
Credentials</span>
                        </center>
                    </div>
                </div>
                <div class="row">
                    <div class="col-md-6">
                        <label>Member ID</label>
                        <div class="form-group">
                            <asp:TextBox class="form-control" ID="TextBox8"
runat="server" placeholder="User ID"></asp:TextBox>
                        </div>
                    </div>
                    <div class="col-md-6">
                        <label>Password</label>
                        <div class="form-group">
                            <asp:TextBox class="form-control" ID="TextBox9"
runat="server" placeholder="Email ID" TextMode="Password"></asp:TextBox>
                        </div>
                    </div>
                </div>
                <div class="row">
                    <div class="col">
                        <div class="form-group">
                            <asp:Button class="btn btn-success btn-block btn-lg"
ID="Button1" runat="server" Text="Sign Up" OnClick="Button1_Click" />
                        </div>
                    </div>
                </div>
            </div>
        </div>
        <a href="homepage.aspx"><< Back to Home</a><br><br>
    </div>
   </div>
  </div>
</asp:Content>
```

User signup C#

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication3
{

    public partial class usersignup : System.Web.UI.Page
    {
        string strcon =
ConfigurationManager.ConnectionStrings["con"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        // sign up button click event
        protected void Button1_Click(object sender, EventArgs e)
        {
            if (checkMemberExists())
            {

                Response.Write("<script>alert('Member Already Exist with this Member
ID, try other ID');</script>");
            }
            else
            {
                signUpNewMember();
            }
        }

        // user defined method
        bool checkMemberExists()
        {
            try
            {
                SqlConnection con = new SqlConnection(strcon);
                if (con.State == ConnectionState.Closed)
                {
                    con.Open();
                }
                SqlCommand cmd = new SqlCommand("SELECT * from member_master_table
where member_id='" + TextBox8.Text.Trim() + "';", con);
                SqlDataAdapter da = new SqlDataAdapter(cmd);
                DataTable dt = new DataTable();
                da.Fill(dt);
                if (dt.Rows.Count >= 1)
                {
                    return true;
                }
                else
                {
                    return false;
                }
```

```csharp
        }
        catch (Exception ex)
        {
            Response.Write("<script>alert('" + ex.Message + "');</script>");
            return false;
        }
    }
    void signUpNewMember()
    {
        //Response.Write("<script>alert('Testing');</script>");
        try
        {
            SqlConnection con = new SqlConnection(strcon);
            if (con.State == ConnectionState.Closed)
            {
                con.Open();
            }
            SqlCommand cmd = new SqlCommand("INSERT INTO
member_master_tbl(full_name,dob,contact_no,email,state,city,pincode,full_address,membe
r_id,password,account_status)
values(@full_name,@dob,@contact_no,@email,@state,@city,@pincode,@full_address,@member_
id,@password,@account_status)", con);
            cmd.Parameters.AddWithValue("@full_name", TextBox1.Text.Trim());
            cmd.Parameters.AddWithValue("@dob", TextBox2.Text.Trim());
            cmd.Parameters.AddWithValue("@contact_no", TextBox3.Text.Trim());
            cmd.Parameters.AddWithValue("@email", TextBox4.Text.Trim());
            cmd.Parameters.AddWithValue("@state",
DropDownList1.SelectedItem.Value);
            cmd.Parameters.AddWithValue("@city", TextBox6.Text.Trim());
            cmd.Parameters.AddWithValue("@pincode", TextBox7.Text.Trim());
            cmd.Parameters.AddWithValue("@full_address", TextBox5.Text.Trim());
            cmd.Parameters.AddWithValue("@member_id", TextBox8.Text.Trim());
            cmd.Parameters.AddWithValue("@password", TextBox9.Text.Trim());
            cmd.Parameters.AddWithValue("@account_status", "pending");
            cmd.ExecuteNonQuery();
            con.Close();
            Response.Write("<script>alert('Sign Up Successful. Go to User Login to
Login');</script>");
        }
        catch (Exception ex)
        {
            Response.Write("<script>alert('" + ex.Message + "');</script>");
        }
    }
}
                                              }
```

Admin login asp.net

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="adminlogin.aspx.cs" Inherits="WebApplication3.adminlogin" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server"></asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <div class="container">
        <div class="row">
            <div class="col-md-6 mx-auto">
                <div class="card">
                    <div class="card-body">
                        <div class="row">
                            <div class="col">
                                <center>
                                    <img width="150px" src="imgs/adminuser.png"/>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <center>
                                    <h3>Admin Login</h3>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <hr>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <label>Admin ID</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control" ID="TextBox1"
runat="server" placeholder="Admin ID"></asp:TextBox>
                                </div>
                                <label>Password</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control" ID="TextBox2"
runat="server" placeholder="Password" TextMode="Password"></asp:TextBox>
                                </div>
                                <div class="form-group">
                                    <asp:Button class="btn btn-success btn-block btn-lg"
ID="Button1" runat="server" Text="Login" OnClick="Button1_Click" />
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
                <a href="homepage.aspx"><< Back to Home</a><br><br>
            </div>
        </div>
    </div>
</asp:Content>
```

Admin login c#

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication3
{
    public partial class adminlogin : System.Web.UI.Page
    {

        string strcon =
ConfigurationManager.ConnectionStrings["con"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        // login button click event
        protected void Button1_Click(object sender, EventArgs e)
        {
            try
            {
                SqlConnection con = new SqlConnection(strcon);
                if (con.State == ConnectionState.Closed)
                {
                    con.Open();

                }
                SqlCommand cmd = new SqlCommand("select * from
admin_login_tbl where username='" + TextBox1.Text.Trim() + "' AND
password='" + TextBox2.Text.Trim() + "'", con);
                SqlDataReader dr = cmd.ExecuteReader();
                if (dr.HasRows)
                {
                    while (dr.Read())
                    {
                        Response.Write("<script>alert('Successful
login');</script>");

                        Session["username"] = dr.GetValue(0).ToString();
                        Session["fullname"] = dr.GetValue(2).ToString();
                        Session["role"] = "admin";
                        //Session["status"] = dr.GetValue(10).ToString();
                    }
                    Response.Redirect("homepage.aspx");
                }
```

```
            else
            {
                Response.Write("<script>alert('Invalid
credentials');</script>");
            }

        }
        catch (Exception ex)
        {
            Response.Write("<script>alert('" + ex.Message +
"');</script>");
        }
    }


    }
}
```

User management asp.net

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="adminmembermanagement.aspx.cs"
Inherits="WebApplication3.adminmembermanagement" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
    <script type="text/javascript">
        $(document).ready(function () {

$(".table").prepend($("<thead></thead>").append($(this).find("tr:first")))
.dataTable();
        });
    </script>
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
    <div class="container-fluid">
        <div class="row">
            <div class="col-md-5">
                <div class="card">
                    <div class="card-body">
                        <div class="row">
                            <div class="col">
                                <center>
                                    <h4>Member Details</h4>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <center>
                                    <img width="100px" src="imgs/generaluser.png"
/>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <hr>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col-md-3">
                                <label>Member ID</label>
                                <div class="form-group">
                                    <div class="input-group">
                                        <asp:TextBox CssClass="form-control"
ID="TextBox1" runat="server" placeholder="Member ID"></asp:TextBox>
                                        <asp:LinkButton class="btn btn-primary"
ID="LinkButton4" runat="server" OnClick="LinkButton4_Click"><i class="fas
fa-check-circle"></i></asp:LinkButton>
                                    </div>
```

```
                                    </div>
                                </div>
                                <div class="col-md-4">
                                    <label>Full Name</label>
                                    <div class="form-group">
                                        <asp:TextBox CssClass="form-control"
ID="TextBox2" runat="server" placeholder="Full Name"
ReadOnly="True"></asp:TextBox>
                                    </div>
                                </div>
                                <div class="col-md-5">
                                    <label>Account Status</label>
                                    <div class="form-group">
                                        <div class="input-group">
                                            <asp:TextBox CssClass="form-control mr-1"
ID="TextBox7" runat="server" placeholder="Account Status"
ReadOnly="True"></asp:TextBox>
                                            <asp:LinkButton class="btn btn-success mr-1"
ID="LinkButton1" runat="server" OnClick="LinkButton1_Click"><i class="fas
fa-check-circle"></i></asp:LinkButton>
                                            <asp:LinkButton class="btn btn-warning mr-1"
ID="LinkButton2" runat="server" OnClick="LinkButton2_Click"><i class="far
fa-pause-circle"></i></asp:LinkButton>
                                            <asp:LinkButton class="btn btn-danger mr-1"
ID="LinkButton3" runat="server" OnClick="LinkButton3_Click"><i class="fas
fa-times-circle"></i></asp:LinkButton>
                                        </div>
                                    </div>
                                </div>
                            </div>
                            <div class="row">
                                <div class="col-md-3">
                                    <label>DOB</label>
                                    <div class="form-group">
                                        <asp:TextBox CssClass="form-control"
ID="TextBox8" runat="server" placeholder="DOB"
ReadOnly="True"></asp:TextBox>
                                    </div>
                                </div>
                                <div class="col-md-4">
                                    <label>Contact No</label>
                                    <div class="form-group">
                                        <asp:TextBox CssClass="form-control"
ID="TextBox3" runat="server" placeholder="Contact No"
ReadOnly="True"></asp:TextBox>
                                    </div>
                                </div>
                                <div class="col-md-5">
                                    <label>Email ID</label>
                                    <div class="form-group">
                                        <asp:TextBox CssClass="form-control"
ID="TextBox4" runat="server" placeholder="Email ID"
ReadOnly="True"></asp:TextBox>
                                    </div>
```

```
                    </div>
                </div>
                <div class="row">
                    <div class="col-md-4">
                        <label>State</label>
                        <div class="form-group">
                            <asp:TextBox CssClass="form-control"
ID="TextBox9" runat="server" placeholder="State"
ReadOnly="True"></asp:TextBox>
                        </div>
                    </div>
                    <div class="col-md-4">
                        <label>City</label>
                        <div class="form-group">
                            <asp:TextBox CssClass="form-control"
ID="TextBox10" runat="server" placeholder="City"
ReadOnly="True"></asp:TextBox>
                        </div>
                    </div>
                    <div class="col-md-4">
                        <label>Pin Code</label>
                        <div class="form-group">
                            <asp:TextBox CssClass="form-control"
ID="TextBox11" runat="server" placeholder="Pin Code"
ReadOnly="True"></asp:TextBox>
                        </div>
                    </div>
                </div>
                <div class="row">
                    <div class="col-12">
                        <label>Full Postal Address</label>
                        <div class="form-group">
                            <asp:TextBox CssClass="form-control"
ID="TextBox6" runat="server" placeholder="Full Postal Address"
TextMode="MultiLine" Rows="2" ReadOnly="True"></asp:TextBox>
                        </div>
                    </div>
                </div>
                <div class="row">
                    <div class="col-8 mx-auto">
                        <asp:Button ID="Button2" class="btn btn-lg btn-
block btn-danger" runat="server" Text="Delete User Permanently"
OnClick="Button2_Click" />
                    </div>
                </div>
            </div>
        </div>
        <a href="homepage.aspx"><< Back to Home</a><br>
        <br>
    </div>
    <div class="col-md-7">
        <div class="card">
            <div class="card-body">
                <div class="row">
```

```
<div class="col">
    <center>
        <h4>Member List</h4>
    </center>
</div>
</div>
<div class="row">
    <div class="col">
        <hr>
    </div>
</div>
<div class="row">
    <asp:SqlDataSource ID="SqlDataSource1"
runat="server" ConnectionString="<%$
ConnectionStrings:elibraryDBConnectionString %>" SelectCommand="SELECT *
FROM [member_master_tbl]"></asp:SqlDataSource>
    <div class="col">
        <asp:GridView class="table table-striped table-
bordered" ID="GridView1" runat="server" AutoGenerateColumns="False"
DataSourceID="SqlDataSource1">
            <Columns>
                <asp:BoundField DataField="member_id"
HeaderText="ID" SortExpression="member_id" />
                <asp:BoundField DataField="full_name"
HeaderText="Name" SortExpression="full_name" />
                <asp:BoundField DataField="account_status"
HeaderText="Account Status" SortExpression="account_status" />
                <asp:BoundField DataField="contact_no"
HeaderText="Contact No" SortExpression="contact_no" />
                <asp:BoundField DataField="email"
HeaderText="Email" SortExpression="email" />
                <asp:BoundField DataField="state"
HeaderText="State" SortExpression="state" />
                <asp:BoundField DataField="city"
HeaderText="City" SortExpression="city" />
            </Columns>
        </asp:GridView>
    </div>
</div>
</div>
</div>
</div>
</div>
</div>
</asp:Content>
```

User management c#

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication3
{
    public partial class adminmembermanagement : System.Web.UI.Page
    {
        string strcon =
ConfigurationManager.ConnectionStrings["con"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {
            GridView1.DataBind();
        }
        // Go button
        protected void LinkButton4_Click(object sender, EventArgs e)
        {
            getMemberByID();
        }
        // Active button
        protected void LinkButton1_Click(object sender, EventArgs e)
        {
            updateMemberStatusByID("active");
        }
        // pending button
        protected void LinkButton2_Click(object sender, EventArgs e)
        {
            updateMemberStatusByID("pending");
        }
        // deactive button
        protected void LinkButton3_Click(object sender, EventArgs e)
        {
            updateMemberStatusByID("deactive");
        }
        // delete button
        protected void Button2_Click(object sender, EventArgs e)
        {
            deleteMemberByID();
        }




        // user defined function

        bool checkIfMemberExists()
        {
            try
            {
                SqlConnection con = new SqlConnection(strcon);
                if (con.State == ConnectionState.Closed)
```

```csharp
            {
                con.Open();
            }

            SqlCommand cmd = new SqlCommand("SELECT * from member_master_tbl where
member_id='" + TextBox1.Text.Trim() + "';", con);
            SqlDataAdapter da = new SqlDataAdapter(cmd);
            DataTable dt = new DataTable();
            da.Fill(dt);

            if (dt.Rows.Count >= 1)
            {
                return true;
            }
            else
            {
                return false;
            }


        }
        catch (Exception ex)
        {
            Response.Write("<script>alert('" + ex.Message + "');</script>");
            return false;
        }
    }

    void deleteMemberByID()
    {
        if (checkIfMemberExists())
        {
            try
            {
                SqlConnection con = new SqlConnection(strcon);
                if (con.State == ConnectionState.Closed)
                {
                    con.Open();
                }

                SqlCommand cmd = new SqlCommand("DELETE from member_master_tbl
WHERE member_id='" + TextBox1.Text.Trim() + "'", con);

                cmd.ExecuteNonQuery();
                con.Close();
                Response.Write("<script>alert('Member Deleted
Successfully');</script>");
                clearForm();
                GridView1.DataBind();

            }
            catch (Exception ex)
            {
                Response.Write("<script>alert('" + ex.Message + "');</script>");
            }

        }
        else
        {
            Response.Write("<script>alert('Invalid Member ID');</script>");
        }
    }
```

```csharp
        void getMemberByID()
        {
            try
            {
                SqlConnection con = new SqlConnection(strcon);
                if (con.State == ConnectionState.Closed)
                {
                    con.Open();

                }
                SqlCommand cmd = new SqlCommand("select * from member_master_tbl where
member_id='" + TextBox1.Text.Trim() + "'", con);
                SqlDataReader dr = cmd.ExecuteReader();
                if (dr.HasRows)
                {
                    while (dr.Read())
                    {
                        TextBox2.Text = dr.GetValue(0).ToString();
                        TextBox7.Text = dr.GetValue(10).ToString();
                        TextBox8.Text = dr.GetValue(1).ToString();
                        TextBox3.Text = dr.GetValue(2).ToString();
                        TextBox4.Text = dr.GetValue(3).ToString();
                        TextBox9.Text = dr.GetValue(4).ToString();
                        TextBox10.Text = dr.GetValue(5).ToString();
                        TextBox11.Text = dr.GetValue(6).ToString();
                        TextBox6.Text = dr.GetValue(7).ToString();

                    }

                }
                else
                {
                    Response.Write("<script>alert('Invalid credentials');</script>");
                }

            }
            catch (Exception ex)
            {
                Response.Write("<script>alert('" + ex.Message + "');</script>");
            }
        }

        void updateMemberStatusByID(string status)
        {
            if (checkIfMemberExists())
            {
                try
                {
                    SqlConnection con = new SqlConnection(strcon);
                    if (con.State == ConnectionState.Closed)
                    {
                        con.Open();

                    }
                    SqlCommand cmd = new SqlCommand("UPDATE member_master_tbl SET
account_status='" + status + "' WHERE member_id='" + TextBox1.Text.Trim() + "'", con);
                    cmd.ExecuteNonQuery();
                    con.Close();
                    GridView1.DataBind();
                    Response.Write("<script>alert('Member Status
Updated');</script>");
```

```
            }
            catch (Exception ex)
            {
                Response.Write("<script>alert('" + ex.Message + "');</script>");
            }
        }
        else
        {
            Response.Write("<script>alert('Invalid Member ID');</script>");
        }

    }

    void clearForm()
    {
        TextBox1.Text = "";
        TextBox2.Text = "";
        TextBox7.Text = "";
        TextBox8.Text = "";
        TextBox3.Text = "";
        TextBox4.Text = "";
        TextBox9.Text = "";
        TextBox10.Text = "";
        TextBox11.Text = "";
        TextBox6.Text = "";
    }

  }
}
```

About asp.net

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="about.aspx.cs"
Inherits="WebApplication3.about" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
    <center></center> <div class="container-fluid">

                    <center>
                        <h4>About Us</h4>

                    </center>
                <div class="col-md-6 mx-auto">
            <div class="card">
                <div class="card-body">
                    <div class="row">
                        <div class="col">

                        <p>The Project "Online tax mapping for household"
gives us the information about the how much tax will pay of our property
for household in any city. Property tax is an amount that a property/land
owner pays annually to the local or state government. The municipal
authorities collect this tax from citizens as revenue to fund the upkeep
and improvement of civic amenities, education, transportation, recreation,
local infrastructure, etc.
                        </p>
                        <p>
The amount collected as property tax by a municipality, a municipal
corporation or a panchayat within a state or city can vary depending on
the locality's type of levy, amenities available, and other similar
factors.
This application mainly design for "ONLINE TAX MAPPING FOR HOUSEHOLD". The
main goal of this application is to provide some extra feature to
calculate the tax how much you pay for your property.
This web application is general purpose web application used by the every
visitor. The website has administration control the actual activity.
                        </p>
                        <p>
This web application also provide user registration faculty using this
faculty he/she can access many of the feature that are not accessible by
the every visitor.

</p>
                        <p>Online Tax mapping system is a simple project,
which is designed by using ASP.NET three tire architecture, MySQL Server,
bootstrap, JavaScript and CSS. Taking about the project, it contains an
admin where he controls the whole system. The admin plays an important
role in the management of this system. And also provide to some important
```

feature to user to view our profile and update our profile and also see our previous calculated tax.`</p>`

`<p>`
                                The tax rate grade map is prepared based on the
notification "Property Tax Rate Sankalp"
issued by the Nagar Palika. There are some types of tax rate zones i.e.
Tax Rate Grade A, Tax Rate Grade B, Tax
Rate Grade C etc. The tax rate grade boundary map superimposed on the city
base map of the municipal council
area of town. This map will be used as ready reckoner for the tax
collectors of the Nagar Palika of Harda Town.

                        `</p>`
`</center>`
`</div>`
                                `</div>`
                        `</div>`
                `</div>`
        `</div>`
`</asp:Content>`

Contact us asp.net

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="contactus.aspx.cs"
Inherits="WebApplication3.contactus" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
    <div class="container">
     <div class="row">
        <div class="col-md-8 mx-auto">
            <div class="card">
                <div class="card-body">
                    <div class="row">
                        <div class="col">
                            <center>
                                 </center>
                        </div>
                    </div>
                    <div class="row">
                        <div class="col">
                            <center>
                                <h4>Contact us</h4>
                            </center>
                        </div>
                    </div>
                    <div class="row">
                        <div class="col">
                            <hr>
                        </div>
                    </div>
                    <div class="row">
                        <div class="col-md-10">
                            <label>Full Name</label>
                            <div class="form-group">
                                <asp:TextBox CssClass="form-control" ID="TextBox1"
runat="server" placeholder="Full Name"></asp:TextBox>
                            </div>
                        </div>
                        <div class="col-md-10">
                            <label>Contact No</label>
                            <div class="form-group">
                                <asp:TextBox CssClass="form-control" ID="TextBox2"
runat="server" placeholder="Contact No" TextMode="Number"></asp:TextBox>
                            </div>
                        </div>

                        <div class="col-md-10">
                            <label>Email ID</label>
                            <div class="form-group">
                                <asp:TextBox CssClass="form-control" ID="TextBox3"
runat="server" placeholder="Email ID" TextMode="Email"></asp:TextBox>
                            </div>
                        </div>
```

```
                    <div class="col-md-10">
                        <label>Message</label>
                        <div class="form-group">
                            <asp:TextBox CssClass="form-control" ID="TextBox4"
runat="server" placeholder="Message" TextMode="MultiLine" Rows="2"></asp:TextBox>
                        </div>
                    </div>


                <div class="row">
                    <div class="col-md-10">
                        <div class="form-group">
                            <asp:Button class="btn btn-success btn-block btn-lg"
ID="Button1" runat="server" Text="Submit" OnClick="Button1_Click" />
                        </div>
                    </div>

                </div>
            <a href="homepage.aspx"><< Back to Home</a><br><br>
        </div>
    </div>
  </div>
</asp:Content>
```

Contact us C#

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication3
{
    public partial class contactus : System.Web.UI.Page
    {
        string strcon =
ConfigurationManager.ConnectionStrings["con"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {

            try
            {
                SqlConnection con = new SqlConnection(strcon);
                if (con.State == ConnectionState.Closed)
                {
                    con.Open();
                }

                SqlCommand cmd = new SqlCommand("INSERT INTO
contact_us(full_name,contact_no,email,message )
values(@full_name,@contact_no,@email,@message)", con);
                cmd.Parameters.AddWithValue("@full_name", TextBox1.Text.Trim());
                cmd.Parameters.AddWithValue("@contact_no", TextBox2.Text.Trim());
                cmd.Parameters.AddWithValue("@email", TextBox3.Text.Trim());
                cmd.Parameters.AddWithValue("@message", TextBox4.Text.Trim());
                cmd.ExecuteNonQuery();
                con.Close();
            }
            catch (Exception ex)
            {
                Response.Write("<script>alert('" + ex.Message + "');</script>");
            }
        }
    }
}
```

Service asp.net

```aspx
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="service.aspx.cs"
Inherits="WebApplication3.service" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head"
runat="server"></asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
    <div class="container">
      <div class="row">
        <div class="col-md-8 mx-auto">
          <div class="card">
            <div class="card-body">
              <div class="row">
                <div class="col">
                  <center>
                    <img width="100px" src="image/icon.jpg"/>
                  </center>
                </div>
              </div>
              <div class="row">
                <div class="col">
                  <center>
                    <h4>Calculate your Tax</h4>
                  </center>
                </div>
              </div>
              <div class="row">
                <div class="col">
                  <hr>
                </div>
              </div>
              <div class="row">
                <div class="col-md-6">
                  <label>UserID</label>
                  <div class="form-group">
                    <asp:TextBox CssClass="form-control" ID="TextBox1"
runat="server" placeholder="User ID"></asp:TextBox>
                  </div>
                </div>
                <div class="col-md-6">
                  <label>Date</label>
                  <div class="form-group">
                    <asp:TextBox CssClass="form-control" ID="TextBox2"
runat="server" placeholder="DATE" TextMode="Date"></asp:TextBox>
                  </div>
                </div>
              </div>
              <div class="row">
                <div class="col-md-6">
                  <label>Contact No</label>
                  <div class="form-group">
                    <asp:TextBox CssClass="form-control" ID="TextBox3"
runat="server" placeholder="Contact No" TextMode="Number"></asp:TextBox>
                  </div>
                </div>
```

```
<div class="col-md-6">
    <label>Email ID</label>
    <div class="form-group">
        <asp:TextBox CssClass="form-control" ID="TextBox4"
runat="server" placeholder="Email ID" TextMode="Email"></asp:TextBox>
    </div>
</div>
</div>
<div class="row">
    <div class="col-md-4">
        <label>State</label>
        <div class="form-group">
            <asp:DropDownList class="form-control"
ID="DropDownList1" runat="server">
                <asp:ListItem Text="Select" Value="select" />
                <asp:ListItem Text="Andhra Pradesh" Value="Andhra
Pradesh" />
                <asp:ListItem Text="Arunachal Pradesh"
Value="Arunachal Pradesh" />
                <asp:ListItem Text="Assam" Value="Assam" />
                <asp:ListItem Text="Bihar" Value="Bihar" />
                <asp:ListItem Text="Chhattisgarh"
Value="Chhattisgarh" />
                <asp:ListItem Text="Rajasthan" Value="Rajasthan" />
                <asp:ListItem Text="Goa" Value="Goa" />
                <asp:ListItem Text="Gujarat" Value="Gujarat" />
                <asp:ListItem Text="Haryana" Value="Haryana" />
                <asp:ListItem Text="Himachal Pradesh"
Value="Himachal Pradesh" />
                <asp:ListItem Text="Jammu and Kashmir" Value="Jammu
and Kashmir" />
                <asp:ListItem Text="Jharkhand" Value="Jharkhand" />
                <asp:ListItem Text="Karnataka" Value="Karnataka" />
                <asp:ListItem Text="Kerala" Value="Kerala" />
                <asp:ListItem Text="Madhya Pradesh" Value="Madhya
Pradesh" />
                <asp:ListItem Text="Maharashtra" Value="Maharashtra"
/>
                <asp:ListItem Text="Manipur" Value="Manipur" />
                <asp:ListItem Text="Meghalaya" Value="Meghalaya" />
                <asp:ListItem Text="Mizoram" Value="Mizoram" />
                <asp:ListItem Text="Nagaland" Value="Nagaland" />
                <asp:ListItem Text="Odisha" Value="Odisha" />
                <asp:ListItem Text="Punjab" Value="Punjab" />
                <asp:ListItem Text="Rajasthan" Value="Rajasthan" />
                <asp:ListItem Text="Sikkim" Value="Sikkim" />
                <asp:ListItem Text="Tamil Nadu" Value="Tamil Nadu"
/>
                <asp:ListItem Text="Telangana" Value="Telangana" />
                <asp:ListItem Text="Tripura" Value="Tripura" />
                <asp:ListItem Text="Uttar Pradesh" Value="Uttar
Pradesh" />
                <asp:ListItem Text="Uttarakhand" Value="Uttarakhand"
/>
                <asp:ListItem Text="West Bengal" Value="West Bengal"
/>
            </asp:DropDownList>
        </div>
    </div>
```

```
<div class="col-md-4">
    <label>City</label>
    <div class="form-group">
        <asp:TextBox class="form-control" ID="TextBox5"
runat="server" placeholder="City"></asp:TextBox>
    </div>
</div>
<div class="col-md-4">
    <label>Pincode</label>
    <div class="form-group">
        <asp:TextBox class="form-control" ID="TextBox6"
runat="server" placeholder="Pincode" TextMode="Number"></asp:TextBox>
    </div>
</div>
</div>
<div class="row">
    <div class="col-md-4">
        <label>Total value of Area </label>
        <div class="form-group">
            <asp:TextBox class="form-control" ID="TextBox7"
runat="server" placeholder="Value" ></asp:TextBox>
        </div>
    </div>
    <div class="col-md-4">
        <label>Grade of Area</label>
        <div class="form-group">
            <asp:DropDownList class="form-control"
ID="DropDownList2" runat="server" >
                <asp:ListItem Text="Select" Value="select" />
                <asp:ListItem Text="A" Value="A" />
                <asp:ListItem Text="B" Value="B" />
                <asp:ListItem Text="C" Value="C" />
                <asp:ListItem Text="D" Value="D" />
            </asp:DropDownList>
        </div>
    </div>


    <div class="col-md-4">
        <label>Tax Rate</label>
        <div class="form-group">
            <asp:TextBox class="form-control" ID="TextBox8"
runat="server" placeholder="Tax rate" ></asp:TextBox>
        </div>
    </div>


    <div class="col-md-6">

        <div class="form-group" >
        </div>
    </div>
    <div class="col-md-12">

        <div class="form-group" >
            <asp:Button class="btn btn-primary btn-block btn-lg"
ID="Button1" runat="server" Text="calculate" OnClick="Button1_Click" />
        </div>
    </div>
```

```
<div class="col-md-12">

    <div class="form-group" >
        <asp:Button class="btn btn-primary btn-block btn-lg"
ID="Button2" runat="server" Text="Save" OnClick="Button2_Click"  />
    </div>
</div>


<div class="col-md-12">
    <label>Total Tax</label>
    <div class="form-group">
        <asp:TextBox class="form-control" ID="TextBox9"
runat="server" placeholder="total tax" ></asp:TextBox>
    </div>
</div>
</div>

</div>

</div>
<a href="homepage.aspx"><< Back to Home</a><br><br>
</div>
</div>
</div>
</asp:Content>
```

Service c#

```csharp
using System;

using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication3
{
    public partial class service : System.Web.UI.Page
    {
        string strcon =
ConfigurationManager.ConnectionStrings["con"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            double res = double.Parse(TextBox7.Text) *
double.Parse(TextBox8.Text);
            TextBox9.Text = res.ToString();
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            try
            {
                SqlConnection con = new SqlConnection(strcon);
                if (con.State == ConnectionState.Closed)
                {
                    con.Open();
                }

                SqlCommand cmd = new SqlCommand("INSERT INTO
service(user_id,date,contact,email,state,city,pincode, area_value,
grade,rate, total )
values(@user_id,@date,@contact,@email,@state,@city,@pincode,@area_value,@g
rade,@rate,@total)", con);
                cmd.Parameters.AddWithValue("@user_id",
TextBox1.Text.Trim());
                cmd.Parameters.AddWithValue("@date",
TextBox2.Text.Trim());
                cmd.Parameters.AddWithValue("@contact",
TextBox3.Text.Trim());
```

```csharp
                cmd.Parameters.AddWithValue("@email",
TextBox4.Text.Trim());
                cmd.Parameters.AddWithValue("@state",
DropDownList1.SelectedItem.Value);
                cmd.Parameters.AddWithValue("@city",
TextBox5.Text.Trim());
                cmd.Parameters.AddWithValue("@pincode",
TextBox6.Text.Trim());
                cmd.Parameters.AddWithValue("@area_value",
TextBox7.Text.Trim());
                cmd.Parameters.AddWithValue("@grade",
DropDownList2.SelectedItem.Value);
                cmd.Parameters.AddWithValue("@rate",
TextBox8.Text.Trim());
                cmd.Parameters.AddWithValue("@total",
TextBox9.Text.Trim());
                cmd.ExecuteNonQuery();
                con.Close();
                Response.Write("<script>alert('Tax value is
Save');</script>");
            }

        catch (Exception ex)
        {
                Response.Write("<script>alert('" + ex.Message +
"');</script>");

        }

      }
    }
}
```

User profile asp.net

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="userlogin.aspx.cs" Inherits="WebApplication3.userlogin" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server"></asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <div class="container">
        <div class="row">
            <div class="col-md-6 mx-auto">
                <div class="card">
                    <div class="card-body">
                        <div class="row">
                            <div class="col">
                                <center>
                                    <img width="150px" src="imgs/generaluser.png"/>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <center>
                                    <h3>Member Login</h3>
                                </center>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <hr>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <label>Member ID</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control" ID="TextBox1"
runat="server" placeholder="Member ID"></asp:TextBox>
                                </div>
                                <label>Password</label>
                                <div class="form-group">
                                    <asp:TextBox CssClass="form-control" ID="TextBox2"
runat="server" placeholder="Password" TextMode="Password"></asp:TextBox>
                                </div>
                                <div class="form-group">
                                    <asp:Button class="btn btn-success btn-block btn-lg"
ID="Button1" runat="server" Text="Login" OnClick="Button1_Click" />
                                </div>
                                <div class="form-group">
                                    <a href="usersignup.aspx"><input class="btn btn-info btn-
block btn-lg" id="Button2" type="button" value="Sign Up" /></a>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
            <a href="homepage.aspx"><< Back to Home</a><br><br>
        </div>
    </div>
</asp:Content>
```

User profile C#

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication3
{

    public partial class userlogin : System.Web.UI.Page
    {

        string strcon =
ConfigurationManager.ConnectionStrings["con"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        // user login
        protected void Button1_Click(object sender, EventArgs e)
        {
            try
            {
                SqlConnection con = new SqlConnection(strcon);
                if (con.State == ConnectionState.Closed)
                {
                    con.Open();

                }
                SqlCommand cmd = new SqlCommand("select * from
member_master_tbl where member_id='" + TextBox1.Text.Trim() + "' AND
password='" + TextBox2.Text.Trim() + "'", con);
                SqlDataReader dr = cmd.ExecuteReader();
                if (dr.HasRows)
                {
                    while (dr.Read())
                    {
                        Response.Write("<script>alert('Successful
login');</script>");

                        Session["username"] = dr.GetValue(0).ToString();
                        Session["fullname"] = dr.GetValue(2).ToString();
                        Session["role"] = "user";
                        Session["status"] = dr.GetValue(10).ToString();
                    }
                    Response.Redirect("homepage.aspx");
```

```
                }
                else
                {
                    Response.Write("<script>alert('Invalid
credentials');</script>");
                }

        }
        catch (Exception ex)
        {

        }
    }
}
```

Tax information asp.net

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="information.aspx.cs" Inherits="WebApplication3.information" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
    <style type="text/css">
    .auto-style1 {
        width: 645px;
    }
</style>
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

    <div class="container">
     <div class="row">
        <div class="col-md-8 mx-auto">
            <div class="card">
                <div class="card-body">
                    <center><h1>Tax Rate Information</h1>
                        <p> </p>
                    </center>

                <div>
                    <p>
                            The tax rate grade map is prepared based on the notification
"Property Tax Rate Sankalp"
issued by the Nagar Palika. There are some types of tax rate zones i.e. Tax Rate Grade
A, Tax Rate Grade B, Tax
Rate Grade C etc. The tax rate grade boundary map superimposed on the city base map of
the municipal council
area of town. This map will be used as ready reckoner for the tax collectors of the
Nagar Palika of Harda Town.</p>
                    <p>
                         </p>
                </div>
                    <div>

                        <table class="w-100">
                            <tr>
                                <td class="auto-style1">Grade of Area</td>
                                <td>Tax Rate</td>
                            </tr>
                            <tr>
                                <td class="auto-style1">Grade A</td>
                                <td>0.05</td>
                            </tr>
                            <tr>
                                <td class="auto-style1">Grade B</td>
                                <td>0.03</td>
                            </tr>
                            <tr>
                                <td class="auto-style1">Grade C</td>
                                <td>0.02</td>
                            </tr>
                            <tr>
                                <td class="auto-style1">Grade D</td>
                                <td>0.00</td>
                            </tr>
                            <tr>
```

```html
                            <td class="auto-style1"> </td>
                            <td>
                                <br />
                                <br />
                                <br />
                                <br />
                                <br />
                                <br />
                                <br />
                                <br />
                                <br />
                                <br />
                                <br />
                            </td>
                        </tr>
                        <tr>
                            <td class="auto-style1"> </td>
                            <td> </td>
                        </tr>
                        <tr>
                            <td class="auto-style1"> </td>
                            <td> </td>
                        </tr>
                    </table>


                </div>
                </div>
            </div>
        </div>
     </div>
    </div>

</asp:Content>
```

Testing

Implementation and System Testing

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing:

The goal of the system testing process was to determine all faults in our project. The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

1. Unit testing

2. Integration testing

UNIT TESTING :

Unit testing is commenced when a unit has been created and effectively reviewed. In order to test a single module we need to provide a complete environment i.e. besides the section we would require

- The procedures belonging to other units that the unit under test calls
- Non local data structures that module accesses.
- A procedure to call the functions of the unit under test with appropriate   parameters

1. ## Test for the admin module

   ### • Testing admin login form:

   This form is used for log in of administrator of the system. In this form we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask the details.

   ### • Report Generation:

   admin can generate report from the main database

   ### INTEGRATION TESTING:

   In the Integration testing we test various combination of the project module by providing the input. The primary objective is to test the module interfaces in order to confirm that no errors are occurring when one module invokes the other module

Future Enhancements:

It is not possible to develop a system that makes all the requirements of the user. User requirements keep changing as the system is being used. Some of the future enhancements that can be done to this system are:

❖ As the technology emerges, it is possible to upgrade the system and can be adaptable to desired environment.

❖ Because it is based on object-oriented design, any further changes can be easily adaptable.

❖ Based on the future security issues, security can be improved using emerging technologies.

❖ sub admin module can be added

Bibliography

Bibliography

References for the Project Development Were Taken From the following Books and Web Sites.

SQL Server

Mastering SQL Server 2000 by Gunderloy,Jorden BPB

Publications

Beginning SQL Server 2000 by Thearon Willis wrox publications

C# .NET

Programming Visual Basic .NET, Mircrosoft Press

C# .NET by Mc Donald, Microsoft Press

The complete reference -C#   - HERBERT SCHIDT

 ❖ YouTube

 ❖ Wikipedia

 ❖ W3 school

Conclusion

The entire project has been developed and deployed as per the requirements stated by the user, it is found to be bug free as per the testing standards that are implemented. Any specification-untraced errors will be concentrated in the coming versions, which are planned to be developed in near future.

The main aim of our project is to prepare a Tax summary of a client. In Tax Mapping system, a client registers himself enters all the details necessary for preparation of Tax Summary after successful submission client can calculate the payable tax information and all the details. After all the procedures are client can print the tax information. The TAX MAPPING FOR HOUSE HOLD is a web-based application that can be accessed throughout the World. Anyone can access this web application to know about tax, how much tax is payable for this place.

❖ Automation of the entire system improves the productivity.
❖ It provides a friendly graphical user interface which proves to be better when compared to the existing system.
❖ It gives appropriate access to the authorized users depending on their permissions.
❖ It effectively overcomes the delay in communications.
❖ Updating of information becomes so easier.
❖ System security, data security and reliability are the striking features.
❖ The System has adequate scope for modification in future if it is necessary