

**MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION**

**GOVERNMENT POLYTECHNIC, AWASARI (KH)**

**TAL – AMBEGAON, DIST – PUNE – 412405**

**ACADEMIC YEAR : 2021-22**  
**COURSE NAME : GUI APPLICATION DEVELOPMENT USING**  
**VB.NET**  
**COURSE CODE : 22034**  
**BRANCH : INFORMATION TECHNOLOGY (SY)**  
**TOPIC NAME : WATER BILLING SYSTEM.**

**DETAILS OF TEAM MEMBERS:**

<b>SR. NO.</b>	<b>NAMES OF GROUP MEMBERS</b>	<b>ROLL NO.</b>	<b>ENROLLMENT NO.</b>
1	Hajare Shruti	21IF261	2010510527
2	Hande Tanvi	21IF262	2010510528
3	Jadhav Nageshwar	21IF263	2010510529
4	Kale Manoj	21IF264	2010510530
5	Adsare Gandharv	21IF265	2010510538
6	Naiknavare Sahil	21IF266	2010510193

**GUIDANCE BY :**

**MRS. DABHADE J. G.**

**GROUP LEADER**

**Sahil**

**Naiknavare**

**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**GOVERNMENT POLYTECHNIC AWASARI (KHURD)**



**SEMESTER —III (2021-22)**  
**CERTIFICATE**

This is to certify the following students of semester Forth of Diploma in Information Technology of Institute : Government polytechnic, Awasari (kh) ( code : 1051 ) has completed the micro project satisfactorily in subject- GUI Application Development Using VB.Net for the academic year 2021-22 as prescribed in the curriculum.

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**GUIDANCE BY**  
**(MRS. DABHADE J. G.)**

**H.O.D**  
**(DR. D. N. REWADKAR)**

**PRINCIPAL**  
**(DR. D. R. NANDANWAR)**

## PART A – A MICRO PROJECT PROPOSAL

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### **Aims / benefits of micro-project :**

**Aim:** Water Billing system using VB.NET.

### **Benefits:**

- Water Billing Management project makes it easier to keep record of all customers.
- The GUI makes it easier even a non technical person can easily interact.
- Water Billing system helps user in managing the customer records.
- It helps in keeping the record of all the customers that are available in the Database..

### **Course Outcomes (CO's) :**

- Use Visual Studio IDE to design application.
- Develop GUI application using Form controls and its events.
- Apply Object oriented concepts in GUI Application.

### **Proposed Methodology:**

First of all we have to select a topic to develop a **Water Billing System**. The teacher will assign one set of Micro Project and ask the student to create a report on given topic. We collected information about the topic using sources such as the internet and books then we asked the subject teacher about Creating GUI on which we have a micro project and then we type the required Part-A and done proper page set up and submitted to subject teacher. After the setup of part- A, we prepare a report of the given project. After finishing all the typing, we arrange all the data in proper arrangement. We selected proper margin font, lay out, 4A size etc. at last we got the printouts of the micro- project and submitted to subject Teacher.

**Action plan:**

<b>Sr. No.</b>	<b>Details of activity</b>	<b>Planned start date</b>	<b>Planned Finished date</b>	<b>Name of Responsible members</b>
1	Selection of project title			ALL MEMEBERS
2	Conduct the information search about the project for requirement analysis of the project			
3	Assembling information for the project work			
4	Implementation of project			
5	Testing of project			
6	Final submit			

**Resources Required:**

<b>S. No.</b>	<b>Name of Resource/material</b>	<b>Specifications</b>	<b>Qty</b>	<b>Remarks</b>
1	Visual Studio 2019	-		
2	MS Word	-		
3	VB.Net Book	-		

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## PART B – Micro-project Report

### *Title of Micro-Project*

### Water Billing System

#### **1.0 Rationale :**

Water Billing System project is developed using VB.NET. The Project is based on a concept to maintain and generate a record of all customers. Talking about the project, Before entering the main menu, the user should pass through the login system to get access. After logging into the system, he/she can make a new entry of customers and staff members and use other features like add new customer, update customers, delete.

#### **2.0 Aims and Benefits of Micro-Project :**

**Aim :** To create a Water billing management using VB.net.

##### **Benefits:**

- Easy Identification of all customers.
- Receipt of customer bill.
- Inspection of all receipts.
- Storage and preservation of all the data.
- Easy to Handle .
- Stores accounting.

#### **3.0 Course Outcomes Addressed:**

- a. Use Visual Studio IDE to design application.
- b. Develop GUI Application using Form Controls and its events.
- c. Apply Object Oriented concepts in GUI Application.
- d. Use Data access controls to store data in Database and retrieve it.
- e. Use Data Binding in GUI Application.

#### 4.0 Actual Methodology:

First of all, we have to select a topic to develop a Water Billing System System using VB.net. The teacher will assign one set of Micro Project and ask the student to create a report on given topic. We collected information about the topic using sources such as the internet and books then we asked the subject teacher about Water Billing System on which we have a micro project and then we type the required Part-A and done proper page set up and submitted to subject teacher. After the setup of part- A, we prepare a report of the given project. After finishing all the typing, we arrange all the data in proper arrangement. We selected proper margin font, layout, 4A size etc. at last we got the printouts of the micro- project and submitted to subject Teacher.

#### 5.0 Literature Review:

In this project where it is named as “Water Billing System”. We have developed a GUI application on the given topic using VB.net concept. Here we have described all concepts of VB.net like first of all we have displayed brief information step by step about our topic. It also helps to understand all information or code of given topic.

#### 6.0 Actual Resources Used:

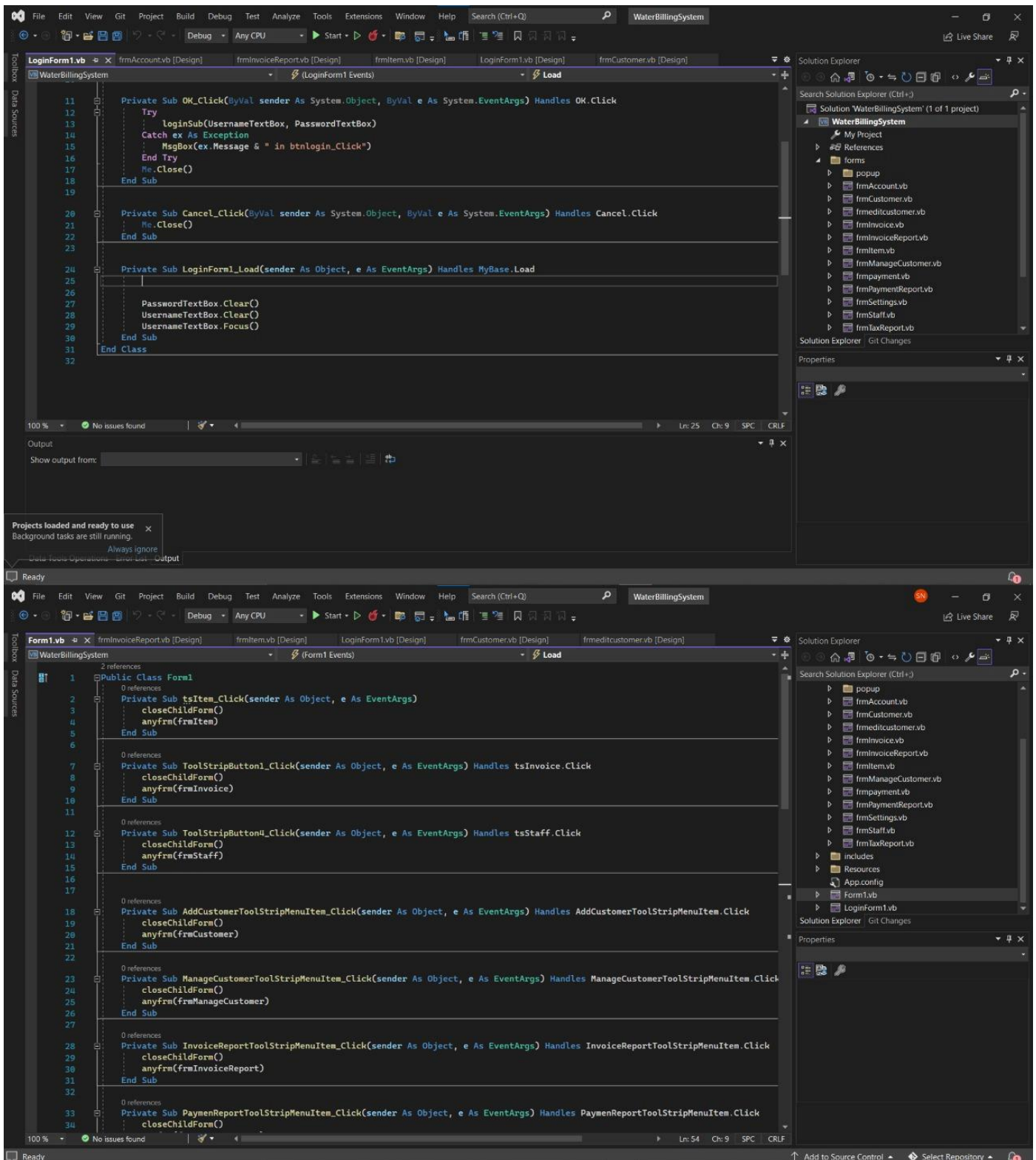
Sr.no.	Name of Resource	Specification	Qty.	Remarks
1	Visual Studio	Version 2019	-	
2	MS Word	2019	-	
3	Windows	10 Pro	-	

#### 7.0 Skill developed / learning outcome of this micro-project :

1. We are able to use visual studio application
2. We are able to design many forms in VB.net
3. We are able to write console programs
4. We understand how store management system work

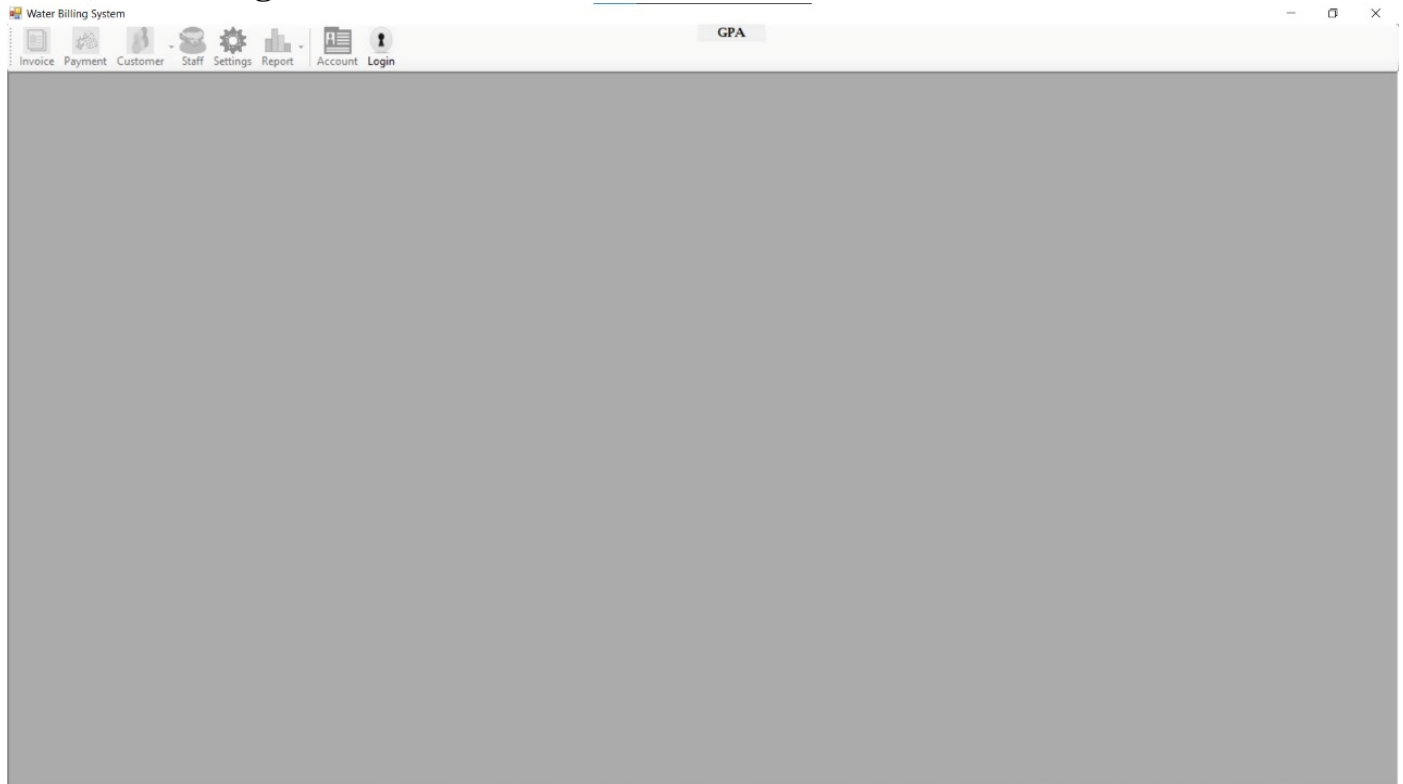


## Source Code:



## OUTPUT :

### 1) Main Page :



### 2) Login :



### 3) Manage Staff :

Water Billing System - [Staff]

Invoice Payment Customer Staff Settings Report Account Logout GPA

## Manage Staffs

ID	Name	Date of Birth	Age	Address	Status
1231231	Palacios, Janno Nillos	03-06-2014 15:47	8	Kabankalan City	NOT ACTIVE
623	Blake, Claire c	14-10-1998 10:59	24	Sample Address	ACTIVE
201002	Jangle, Disha Vinod	21-05-2022 15:24	0	Mumbai	ACTIVE

Add Edit De activate

Basic Information

Saff Id :

First Name :  Last Name :  Middle Name :

Date Of Birth :  Address :

Phone :  Mobile :  Fax :

Username :  Password :

Save

### 4) Enter Payment :

Water Billing System - [Payment]

Invoice Payment Customer Staff Settings Report Account Logout GPA

## Enter Payment

Customer :

Total Amount : 0

Available Credit : 0

Net Amount :

Remarks :

Save Payments

## 5) Tax Reports :

Water Billing System - [Report]

Invoice Payment Customer Staff Settings Report Account Logout

GPA

Tax Reports

All Customers From: 24-05-2022 To: 24-05-2022 All Go

Customer Name	Invoice Number	Invoice Date	Due Date	Amount(Pesos)	Tax	Payment Date	status
James Yap	0001	6/3/2014	6/3/2014	2900.8896	112.32	25-11-2018 10:06	PAID
James Yap	0001	6/3/2014	6/3/2014	2900.8896	27.8784	25-11-2018 10:06	PAID
Janno Palacios	0001	23/11/2018	23/11/2018	2900.8896	112.32	25-11-2018 10:06	PAID
Janno Palacios	0001	23/11/2018	23/11/2018	2900.8896	27.8784	25-11-2018 10:06	PAID
James Yap	00002	25/11/2018	25/11/2018	1450.4448	15.2064	25-11-2018 10:06	PAID
George Wilson	00003	05/06/2021	05/06/2021	3864	414	06-05-2021 10:55	PAID

total taxes 709

## 6) Reports:

Water Billing System - [Report]

Invoice Payment Customer Staff Settings Report Account Logout

GPA


Payments Reports


All Customers From: 24-05-2022 To: 24-05-2022 All Go


Customer Name	Invoice Number	Invoice Date	Due Date	Amount(Pesos)	Payment Date	status
James Yap	0001	6/3/2014	6/3/2014	2900.8896	25-11-2018 10:06	PAID
James Yap	0001	6/3/2014	6/3/2014	2900.8896	25-11-2018 10:06	PAID
James Yap	00002	25/11/2018	25/11/2018	1450.4448	25-11-2018 10:06	PAID
Janno Palacios	0001	23/11/2018	23/11/2018	2900.8896	25-11-2018 10:06	PAID
Janno Palacios	0001	23/11/2018	23/11/2018	2900.8896	25-11-2018 10:06	PAID
George Wilson	00003	05/06/2021	05/06/2021	3864	06-05-2021 10:55	PAID


## 7) Invoice :


Water Billing System - [INVOICE]


 Invoice


 Payment


 Customer

 Staff

 Settings

 Report


 Account


 Logout

GPA

Create Invoice Open Invoice

Invoice Number :

Invoice Date :  

Due Date :  

Customer :

Description :

Quantity :  Unit :

Unit Price :

Discount :

Total :  ☐ Taxable

Remarks :

Summary

Sud-Total :

Sales Tax :

Totals :

Amount Due :

Thank You