

## GTU INNOVATION COUNCIL



**GUJARAT  
TECHNOLOGICAL UNIVERSITY**



Diploma Engineering Semester-VI

## UDP Statement Form

## The Student Information

<b>Name of Student</b> (In Capital Letters)	<b>SHAH HARSH NIKHIL</b>		
	Surname	Name	Father's Name
<b>Enrollment No.</b>	<b>196620307059</b>		
<b>Contact No.</b>	<b>Mob:</b>	<b>9664866117</b>	<b>Landline:</b> -
<b>Email ID</b>	<b>196620307059@darshan.ac.in</b>		
<b>College Name</b>	<b>DARSHAN INSTITUTE OF ENGG. &amp; TECH. FOR DIPLOMA STUDIES</b>		<b>College Code:</b> <b>662</b>
<b>Branch</b>	<b>COMPUTER ENGINEERING</b>		<b>Semester: VI</b>
<b>Student Team</b>	<b>Name</b>		<b>Enrollment No.</b>
	<b>1. SHAH HARSH NIKHIL</b>		<b>196620307059</b>
	<b>2. PAREKH UDIT KETANBHAI</b>		<b>196620307043</b>
<b>Student Signature</b>	1. <i>Njz</i>		
	2. <i>Udit</i>		

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<b>Name of Student</b> (In Capital Letters)	<b>PAREKH UDIT KETANBHAI</b>		
	Surname	Name	Father's Name
<b>Enrollment No.</b>	<b>196620307043</b>		
<b>Contact No.</b>	<b>Mob:</b>	<b>7046440827</b>	<b>Landline:</b> -
<b>Email ID</b>	<b>196620307043@darshan.ac.in</b>		
<b>College Name</b>	<b>DARSHAN INSTITUTE OF ENGG. &amp; TECH. FOR DIPLOMA STUDIES</b>		<b>College Code:</b> <b>662</b>
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<b>Student Team</b>	<b>Name</b>		<b>Enrollment No.</b>
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<b>Student Signature</b>	1. <i>Njr</i>		
	2. <i>udit</i>		



<b>TITLE OF PROBLEM/PROJECT</b>
<b>GST BILL GENERATOR</b>

<b>DISCIPLINARY/INTER-DISCIPLINARY</b>	<b>DISCIPLINARY</b>	
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<b>Your Project Type</b>	<b>DISCIPLINE</b>	<b>COMPUTER ENGINEERING</b>

**Branch:** COMPUTER ENGINEERING
**Specific Area of Work:** APPLICATION ( GENERATE BILL )
**Scope of the Work: Within One Discipline:** ☒ **Or Interdisciplinary:** ☐
**The Problem Abstract:**

When we want to generate the bill for the purchased products, it takes lots of time to calculate bill amount and there may chances of mistake in calculation. In case of mistake in calculate, it leads to wastage of paper and time. So, we have developed Android Application “**GST Bill Generator**” will generate the bill in PDF format very easily. In application we have to just add customer details first time, add list of product purchased by the customer and it will generate a bill quickly. This application has functionalities to save generated bill for future use, user can view previously purchased product details of the customer etc. So, it saves our precious time and environment.



### **Detailed Description :**

#### **Customer:**

The details of customer have been stored in this module. User can insert detail about their customer such as Customer Name, City and Contact Number etc.

- **CustomerID** :ID of customer
- **CustomerName** :Name of customer
- **ContactNumber** :Contact number of customer
- **City** :City of customer
- **CreatedDate** :Date when customer added

#### **Product:**

In this module, the details of product have been stored. User can view product detail like Product Name, GST Percent, Price etc.

- **ProductID** :ID of product
- **ProductName** :Name of product
- **ProductGSTPercent** :GST percent of product
- **ProductPrice** :Price of product
- **ProductQuantity** :Quantity of product



### Purchase:

In this module, the details of purchased product have been stored. User can insert and delete purchased product. User can insert product details like Product Name, GST Percent, Purchase Quantity, Total Price etc.

- **PurchaseID** :ID of purchase
- **ProductID** :ID of product
- **CustomerID** :ID of customer
- **PurchasedQuantity** :Quantity of purchase
- **TotalPrice** :Total price of purchase

### Bill:

In this module, After purchase products by the customer, Bill will be generated and save all details for future use. Bill contains details like Customer Name, Product Name, Product GST Percent, Purchased Quantity, Total Price of Bill etc.

- **BillID** :ID of Bill
- **PurchaseID** :ID of purchase
- **CustomerID** :ID of customer
- **TotalBill** : Total Bill Amount to be pay
- **BillDate** :Date of bill created
- **IsPaid** :Is bill paid or not



### History:

In this module, the past purchase details of the customers will be stored. User can view & download previously generated bill. Bill contains details like Customer Name, Product Name, Product GST Percent, Purchased Quantity, Total Price of Bill etc.

- **HistoryID** :ID of History
- **CustomerID** :ID of customer
- **PurchaseID** :ID of purchase
- **BillID** :ID of BillGenerate



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**Future Enhancement (UDP) :**

In future, we will add functionality to print bills using the application. In which users can connect their phone to the printer and print bills. We will also add functionality to share bills, user can add or remove default products, etc. Also, we would expand our application to other platforms i.e. iOS.