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| **College** | **CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY** | | | |
| **Department** | **COMPUTER SCIENCE** | | | |
| **Laboratory Name** | **DATA BASE MANAGEMENT SYSTEM** | | **Subject Code** | **17CSL58** |
| **Student Name: 1. KAVANA A R** | | **USN: 1CG17CS041** | | |
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| **Project Title** | **PETROLEUM POWER PLANT** | | | |

**SYNOPSIS**

**INTRODUCTION**

**Mini project on petrol plant database:**

This project deals with the management of the “ PETROLEUM POWER PLANT”. A PETROLEUM POWER PLANT is an industrial facility used to extract petrol from petrol well.

For easy and convenient processing, we need to develop software, which works as per our requirements. While preparing this software we got to remember few things i.e. this software must have a friendly environment, in other words it should not be much complicated to handle, it should have options for future modifications in the database i.e. in the goods list, new items and workers list. For smooth functioning, we had to prepare a database by which we could enter the required data in their respective locations. In this database all the records of daily entry made are stored, so that we can use them in future whenever allotted to their caretaker. Other than that, no one could use this and on entering an illegal password or login name an error message get displayed.

**OBJECTIVE**

1. To describes the sources of petrol .
2. Define terms and factors associated with petrol agency.
3. List the different agency in power plants.
4. Estimate the users.

**• RELATIONAL DATA BASE MANAGEMENT SYSTEM (RDBMS)**

The proposed system comes under RDBMS category, as there is need to store and manipulate a huge amount of data related to products information and customer’s various queries. RDBMS is a very important type of database which is very much compatible to the jsp.

**Input of the project**

• In this system there are many type of inputs are processed into it.

• All the type of inputs is stored into the projects for various purposes.

The main inputs of the projects are………

* power plant id.
* Number of agency depending in power plant and their details.
* It stores the details of purchase.
* Name of the power plant and where it is located.
* Name of the customer.

**Output of the project**

* In this we output the information about petroleum agency, booking playment.
* It displays the owner information.
* It prints the total cost of purchase with date.
* It gives the detailed information of petroleum booking .

**METHADOLOGY**

**There are five tables in our database:**

1. **agency** (a\_id, a\_name, email,location)
2. **owner** (o\_id,o\_name,a\_id,location)
3. **customer** (c\_id,c\_name,email,o\_id)
4. **Booking** (b\_id,c\_id,amount,balance)
5. **Payment** (p\_id,p\_name,p\_date,c\_id)

**Schema diagram:**

agency

|  |  |  |  |
| --- | --- | --- | --- |
| a\_ id | a\_name | email | Location |

|  |  |  |
| --- | --- | --- |
| o\_id | o\_ name | a\_id location |

owner

customer

|  |  |  |  |
| --- | --- | --- | --- |
| c\_ id | c\_ name | email | o\_id |

Payment

|  |  |  |
| --- | --- | --- |
| p\_id | P\_name | P\_date c\_id |

|  |  |  |
| --- | --- | --- |
| b\_id | c\_id | amount balance |

booking

HARDWARE REQUIREMENTS

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| **Hardware** | **Minimum requirements** |
| Computer | Intel Core TM i5-3230M 2.6GHz with Turbo Boost up to 3.2GHz |
| Memory (RAM) | 64 MB Minimum; 128 MB Recommended |
| Hard disk space | 1 GB for the database and the client software. This requirement may increase with the increase in records. |
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SOFTWARE REQUIREMENTS

|  |  |
| --- | --- |
| **Software** | **Minimum requirements** |
| Operating system | Windows 10 |
| Softwares | XAMPP Control panel v3.2.2 |
| Database | MySQL |
| Server | APACHE server |
| languages | HTML, PHP |

**Signature of Faculty Student signature with date**