Piped Natural Gas Supply Management System

Software Requirement Specification

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Minimum System Requirements:

Intel Celeron/AMD Athlon x2 Processor

RAM: 2 GB DDR2

Operating System: Windows, Linux, MacOS

Software: Python 3.6.4

Internet: 256 Kbps Internet Connection

Recommended System Requirements:

Intel Core 2 Duo/AMD Phenom II Processor

RAM: 3 GB DDR3

Operating System: Windows, Linux, MacOS

Software: Python 3.6.4

Internet: 1 Mbps Internet Connection

1. Introduction

1.1 Purpose

The purpose of this document is to build a gas management system to manage the supply of PNG gas for households .

* 1. Document Conventions

This document uses the following conventions.

|  |  |
| --- | --- |
| DB | Database |
| ER | Entity Relationship |

* 1. Intended Audience

This project is a prototype for gas management system and is restricted to within the college premises. This has been implemented under the guidance of college professors. This project is useful for gas management team as well as to the customers.

* 1. Project Scope

The purpose of gas supply managements system is to ease gas supply and create a convenient and easy-to-use application for customers, trying to get connection for the gas supply. The system is based on relational database with management function. We will have a database supporting supply in 5 major cities of our country.

* 1. References

**2. OVERALL DESCRIPTION**

**2.1 PRODUCT PERSPECTIVE**

Our database system stores the following information.

* **Customer Details:** This includes details of the customers such as id, email, username, password, name, address, city. In this table, we are taking email as the foreign key.
* **Customer Bills:** This includes details of the customers such as bill\_id, connection\_id, name, username, payable\_amount. In this table, connection\_id and bill\_id are used as the foreign key to refer to the mastertable.
* **Users Table**: In this table, username, password, email are the attributes and username is used as the foreign key for this table.
* **Connections Table:** connection\_id and name are the attributes for this table. Here, connection\_id is the foreign key to connect to the mastertable.
* **Master Table:** This is themain table of our Project. we have taken attributes such as id, Username, password, email, name, address, city ,connection\_id, bill\_id, payable\_amount.
* **StoreAdmins Master Table:** In this table, wehavestored all the detailsof the administrators like username, password.

**2.2 PRODUCT FEATURES**

**2.3 USER CLASS and CHARACTERISTICS**

* Users of the system can retrieve the information about the company provided on the site,
* They can Sign up into the site if they are the registered user otherwise, they can register into the site.
* They can avail services provided by the Company.
* They can contact to the company for any query or issues.
* They can order the service, to be connected.

**2.5 DESIGN and IMPLEMENTATION CONSTRAINTS**

**2.6 ASSUMPTION DEPENDENCIES**