



Global Cold Storage

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This **Project** report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

**Department of Software Engineering
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APPROVAL

“Global Cold Storage”, submitted by **Md.Ashraful Islam kakon and Utpal Chanda Das.** ID-141-35-590 ; 141-35-643 to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc in Software Engineering and approved as to its style and contents.

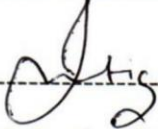
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DECLARATION

We hereby declare that, this **Project** Report has been done by us under the supervision of Dr. Md Mostafijur Rahman, Assistant Professor Dept. of FSIT Department of Software Engineering, Faculty of Science and Information Technology, Daffodil International University. We also declare that neither this report nor any part of this report has been submitted elsewhere for award of any degree.

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DEDICATION

We would like to dedicate this project to our beloved parents.

SUMMARY

Our country is based on agriculture and our farmers need to store their products. So the automated system for farmers will be advantages. Manage whole process like which product can store, how much temperature should maintain there. Its location, availability and pricing information will available. In other hand customers can communicate with cold storage owner to ensure better service. The customer can find cold storage as their demand and the client also easily contact with cold storage owner continuously.

TABLE OF CONTENTS

| | |
|--|----|
| CHAPTER 01: INTRODUCTION..... | 1 |
| 1.1 Purpose..... | 1 |
| 1.2 Audience..... | 1 |
| 1.3 Scope..... | 1 |
| 1.4 Document Conventions..... | 1 |
| CHAPTER 02: PRE-ANALYSIS..... | 2 |
| 2.1 Scenario..... | 2 |
| 2.2 Initiation..... | 2 |
| 2.3 Requirement Collection..... | 2 |
| CHAPTER 03: ANALYSIS..... | 3 |
| 3.1 Requirement Analysis..... | 3 |
| 3.1.1 Requirement Discovery..... | 3 |
| 3.2 Software Requirement Specification (SRS)..... | 3 |
| 3.3 Software Develop Plan (SDP)..... | 3 |
| 3.3.1 Project Overview..... | 4 |
| 3.3.1.1 Proposed System and its benefits..... | 5 |
| 3.3.1.2 Project Features..... | 5 |
| 3.3.2 Project Organizations..... | 5 |
| 3.3.2.1 Process Model..... | 5 |
| 3.3.3 Managerial Process..... | 6 |
| 3.3.3.1 Management Objectives..... | 6 |
| 3.3.3.2 Risk Management..... | 6 |
| 3.3.3.3 Tools and Technology..... | 7 |
| 3.3 Software Test Plan (STP)..... | 7 |
| 3.4.1 Introduction..... | 7 |
| 3.4.2 Features to be tested..... | 7 |
| CHAPTER 04: DESIGN..... | 8 |
| 4.1 High Level Design..... | 8 |
| 4.1.2 Use Case Diagram..... | 8 |
| CHAPTER 05: IMPLEMENTATION & MAINTANCE..... | 9 |
| 5.1.1 Physical Design (Code)..... | 9 |
| 5.1.2 Physical Design (Code)..... | 9 |
| 5.1.3 Unit Test Case (UTC)..... | 10 |
| 5.1.4 Unit Test Report (UTR)..... | 10 |
| CHAPTER 06: SYSTEM TEST..... | 11 |
| 6.1 System Test Report (STR)..... | 11 |
| 6.1.1 Testing Scope..... | 11 |
| 6.1.2 Testing Method..... | 11 |
| 6.2 Software Development Completion Report (SDCR)..... | 12 |
| 6.2.1 Project Description..... | 13 |
| 6.2.2 Some screen shots during project completion..... | 13 |
| 6.2.3 Some screen shots during project completion..... | 13 |
| 6.2.4 Sketch Up 3d Design..... | 14 |
| 6.2.5 Unity Engine..... | 14 |

| | |
|------------------------------|----|
| 6.2.6 Booking..... | 15 |
| 6.2.7 Update..... | 15 |
| 6.2.8 Database..... | 16 |
| CHAPTER 07: REFERENCES | 17 |
| FUTURE WORK..... | 18 |

LIST OF THE FIGURE

| | |
|---|----|
| Figure: 3.1 Process Model | 6 |
| Figure: 3.2 Risk Management | 6 |
| Figure: 4.1 Use Case Diagram..... | 8 |
| Figure: 5.1 PHP Develop Code..... | 9 |
| Figure: 5.2 Physical Design (code)..... | 9 |
| Figure: 6.2. During project completion..... | 13 |
| Figure: 6.3 During Project completion..... | 13 |
| Figure: 6.4 Client Registration | 14 |
| Figure: 6.5 Owner Registration..... | 14 |
| Figure: 6.6 Booking..... | 15 |
| Figure: 6.7 Update..... | 15 |
| Figure: 6.8 Database..... | 16 |

List of Tables

| | |
|--|----|
| Table: 5.2 Unit Test Case (UTC)..... | 10 |
| Table: 5.3 Unit Test Report (UTR)..... | 10 |
| Table: 6.1 System Test Report (STR)..... | 11 |

CHAPTER 01: INTRODUCTION

1.1 Purpose

I lived in a village that's why most of our relatives are farmer. After started my study as a software engineering then I think to do something for them. Once I have a little discussion with them then I noticed the automation system of cold storage is too much needed for them. After that I have surveyed and there is no system and finally decided to make the project for cold storage owner and customer.

1.2 Audience

Audience form all farmers, moneylender and cold storage authority for our application. Audience can get 24/7 access.

1.3 Scope

User can create their business profile, update their information, they can communicate each other as well as customer feedback will available there.

1.4 Document Conventions

Chapter Name

- Font Cambria
- Size 18
- Weight: Bold Main Titles
- Font: Times New Roman
- Sizes 12
- Weight: Bold

Table

- Font: Times New Roman
- Size 11
- Weight: Normal

CHAPTER 02: PRE-ANALYSIS

2.1 Scenario

We know what the purpose of Cold storage our system is created to automate the storing system. To digitize the storing system and make it more effective and dynamic.

2.2 Initiation

From the start of revolutionary product (VR) headsets or oculus rift. We thought about for marketing innovative application with it from that aspect we took the subject of making a Simulation based on application where a user can participate in different work. From that Thought we initiate our project.

2.3 Requirement Collection

Retrieve information in a short time consuming. Difficult to keeping this information. Stored customer orders information, invoice information. Coldstorage for preserve his product. Owner receives this product and generates an invoice. Give this invoice to customer as this the preliminary investigation.

CHAPTER 03: ANALYSIS

3.1 Requirement Analysis

Analysis is the most important part for application software. It decides will be need such as hardware support, software support, what requirements mostly used or not, how the software will work and decides also anatomy of software.

3.1.1 Requirement Discovery

Requirements discovery includes those technique to be used systems analysis to identify or extract system problems checked and solution requirements from the user community. A functional requirement defines as a function of software system or its component.

3.2 Software Requirement Specification (SRS)

A software requirements specification is a comprehensive description of the intended purpose and environment for software under development. The SRS fully describes what the software will do and how it will be expected to perform. A good SRS defines how an application will interact with system hardware, other programs and human users in a wide variety of real world situations. Our software requirement specifications are as follows:

- Registration.
- Searching
- Booking
- Virtual Reality.
- Update.
- Optimization.

3.3 Software Develop Plan (SDP)

Software Development Plan is a reasonably detailed description of all the activities which needs to undertake. The Software Development Plan describes plan for conducting this software development effort. It provides the acquire insight and a tool for monitoring the processes to be followed for software development. It's also details methods to be used and approach to be followed for each activity, organization, and resources.

3.3.1 Project Overview

Our country is based on agriculture and our farmers need to store their products. So the automated system for farmers will be advantages. Manage whole process like which product can store, how much temperature should maintain there. Its location, availability and pricing information will available. In other hand customers can communicate with cold storage owner to ensure better service. The customer can find cold storage as their demand and the client also easily contact with cold storage owner continuously.

3.3.1.1 Proposed System and its benefits

The Proposed system is to automate the manual process for Cold Storages. User can store and get update. Complete prototype of simulation based for application including user inter action and possibly virtual reality. Project benefits are:

Real Time Communication:

- Virtual interaction.
- Real-time Concept for original concept.
- Documentation through website the (Globally).

3.3.1.2 Project Features

Project features are based on follows this system:

- Registration.
- Searching
- Booking
- Virtual Reality.
- Update.
- Optimization.

3.3.2 Project Organizations

Organizing the project and responsibilities are Searching cold storages location.

3.3.2.1 Process Model

A software process model is a standardized format for planning, organizing and running a development project. There are numbers of general models for software to process. But for this system is proposed system. The process model is here:

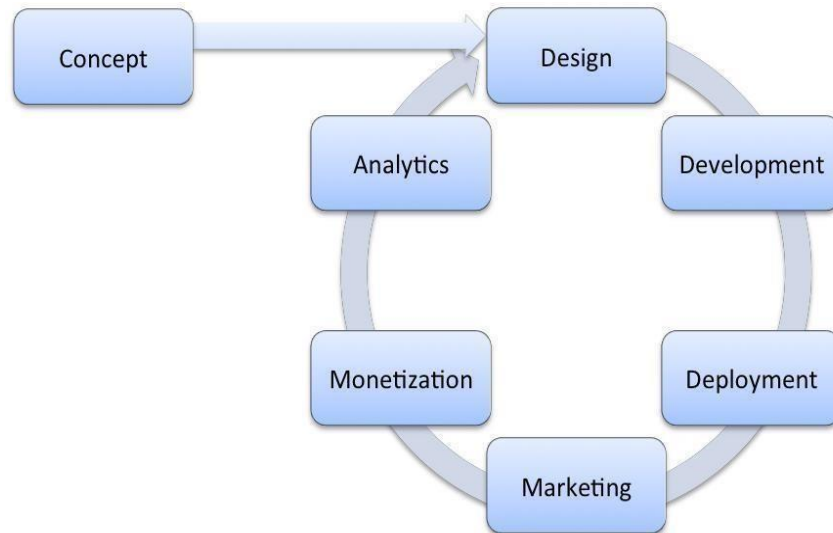


Figure 3.1 Process Model

3.3.3 Managerial Process

3.3.3.1 Management Objectives

From requirement collection to analysis, step by step as planning is to complete are the objectives. All phase is done by one and submitted to the supervisor at the end of week and he verified it by doing g correction.

3.3.3.2 Risk Management

Some risk may be occurred till project ending but will try to reduce them. Like,



Figure 3.2 Risk Management

3.3.3.3 Tools and Technology

Programming Language: PHP

3.4 Software Test Plan (STP)

3.4.1 Introduction

A Software Test Plan document describing the testing scope and activities. It is the basis for formally testing any software in a project. ISTQB says Test Plan is a document for the describing scope, approach, resources and schedule of intended test activities. To describing amongst others test items the features to be used and the rationale for their choice, and any risks requiring contingency planning. It is a record of the test planning process.

3.4.2 Features to be tested:

There are lot of feature to test in this application .Such as:

- Anisotropic Performance (8x Multisampling)
- Tessellation
- Level of Detail (LOD)

CHAPTER 04: DESIGN

It is both a process and a model. It builds the whole system and creates a model to work on easily.

4.1 High Level Design

High level design provides an overview of an entire system, identifying all its elements at some level of abstraction, Preliminary design and design overview, in the both cases the high level should be complete view of the site entire system it breaking down smaller parts that are more easily understood. As a little part, the work-flow diagram is one of them.

4.1.2 Use Case Diagram

A use vase diagram is a graphic depiction of the interactions among the element of a system. It is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case from below says who user actors are and what their actions.

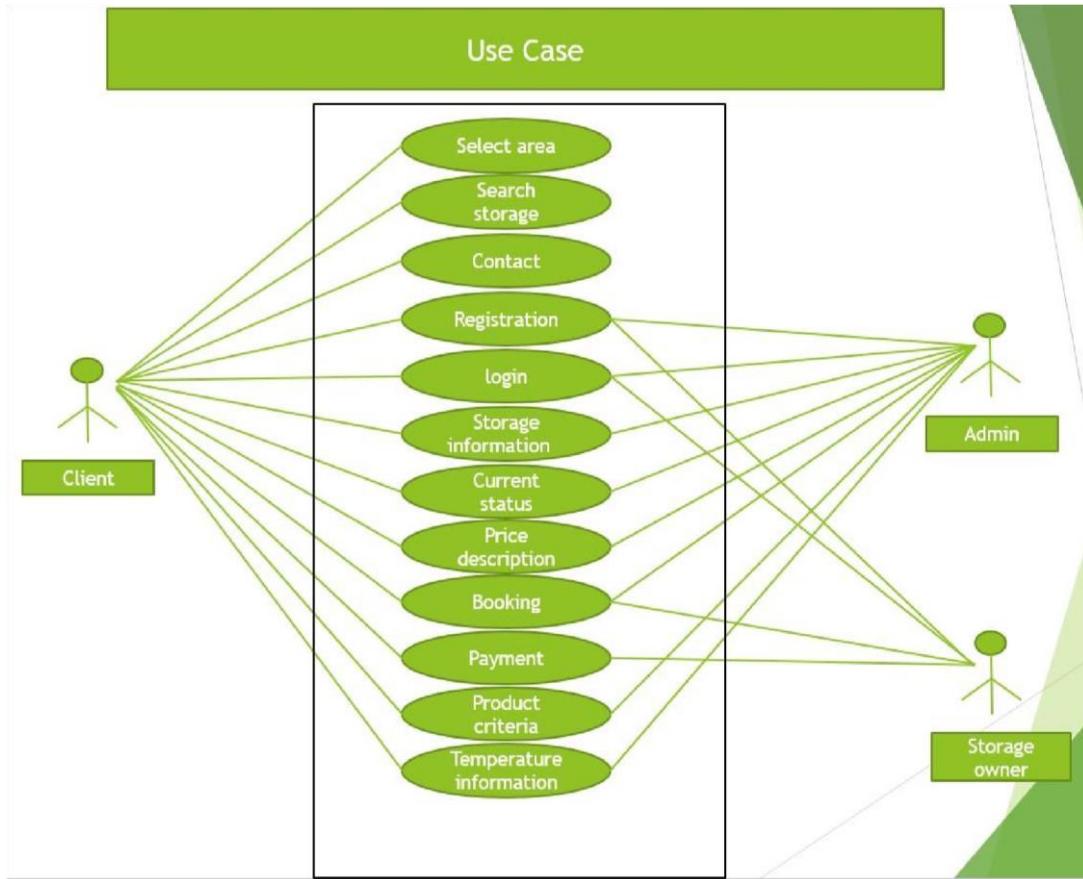


Figure: 4.1 Use Case

CHAPTER 05: IMPLEMENTATION & MAINTNANCE

5.1.1 Physical Design (Code)

Physical design is the skeleton of the system it is malformed for, there is no cosmetic remedy for alleviating its unpleasant symptoms. The quality of the physical design of a large system will dictate the cost of its maintenance and the potential it has for the independent reuse of its subsystem. Some samples of physical design (code and interface) for this system have been given below.



Figure 5.1 PHP Develop Code

5.1.2 Physical Design (Code)

```

storageinfo.php x search.php x storagename.php x client_dashbaord.php x index.php x logout.php x
<?php
session_start();
require 'dbconnection.php';

if (isset($_GET['name']) == '') {
    header('Location: index.php');
    exit();
}

if ($_SESSION['searchtype'] == 1) {
    $storage_info = array();
    $pro_type = mysqli_real_escape_string($dbconnect, $_GET['name']);
    $sqlquery1 = "SELECT `storage_name`, `contact` FROM `storage_info` WHERE `product_type` = '$pro_type'";
    if ($result1 = $dbconnect->query($sqlquery1)) {
        while ($info_rows = $result1->fetch_array(MYSQLI_ASSOC)) {
            $storage_info[] = $info_rows;
        }
        $result1->close();
    }
} else {
    $storage_info = array();
    $location = mysqli_real_escape_string($dbconnect, $_GET['name']);
    $sqlquery1 = "SELECT `storage_name`, `contact` FROM `storage_info` WHERE `storage_location` = '$location'";
    if ($result1 = $dbconnect->query($sqlquery1)) {
        while ($info_rows = $result1->fetch_array(MYSQLI_ASSOC)) {
            $storage_info[] = $info_rows;
        }
        $result1->close();
    }
}

$arrstr_info = count($storage_info);

```

Figure 5.2 Physical Design (Code)

5.1.3 Unit Test Case (UTC)

Unit testing is a method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures, are tested to determine whether they are fit for use.

Table 5.1: Unit Test Case

| Project | Case | Error | Result |
|---------------------|-------------|-------|--------|
| Global cold storage | GUI | - | OK |
| Global cold storage | Event input | - | OK |

5.1.4 Unit Test Report (UTR)

Unit Test Report is the combination of results that may success and failure percentage. This test report use we can see what defects are error in game.

Table 5.2: Unit Test Report

| Test Result | Excellent |
|------------------------------|------------------|
| Uncorrected Critical Defects | 1 |
| Number of Defects | 3 |

GitHub Link: <https://github.com/ihrifat2/globalColdStorage>

CHAPTER 06: SYSTEM TEST

6.1 System Test Report (STR)

This section contains the kinds of activities performed of testing of this proposed system. According to test plan, features are tested successfully and some are with failure.

Table 6.1: this is requirement of system testing report in our games project.

| Operating System | Performance | Result |
|-------------------------|--------------------|---------------|
| Windows 10(Core i3) | 30-40 fps | Mediocre |
| Windows 10(Core i5) | 45-52 fps | Good |
| Windows 10(AMD fx8350) | 62-68 fps | Excellent |

6.1.1 Testing Scope

Functional Testing for the following modules are in scope of Testing. Performance testing is not tested yet. It will be out of scope for this first of version of the software. This section is for user that meant User Acceptance Testing (UAT), which is not tested

because of some technical issue and this proposed system is a proposed system only. Defect are detected from system test plan. Defect results are defined from test report. The test report gives the accurate defects distribution which tells how much system is stable for using.

6.1.2 Testing Method

For this proposed system, V-Model is used for testing because, the V-Model of Represents a software development process which may be confused a model extension of the testing. It is following upwards after the coding phase uses. The coding ensures system delivery to testing method follow.

6.2 Software Development Completion Report (SDCR)

Completion report means that, a total project completion report. Software development process is briefly discussed in this section starting from software name to its end of the development project.

6.2.1 Project Description

Our country is based on agriculture and our farmers need to store their products. So the automated system for farmers will be advantages. Manage whole process like which product can store, how much temperature should maintain there. Its location, availability and pricing information will available. In other hand customers can communicate with cold storage owner to ensure better service. The customer can find cold storage as their demand and the client also easily contact with cold storage owner continuously.

6.2 Some screen shots during project completion

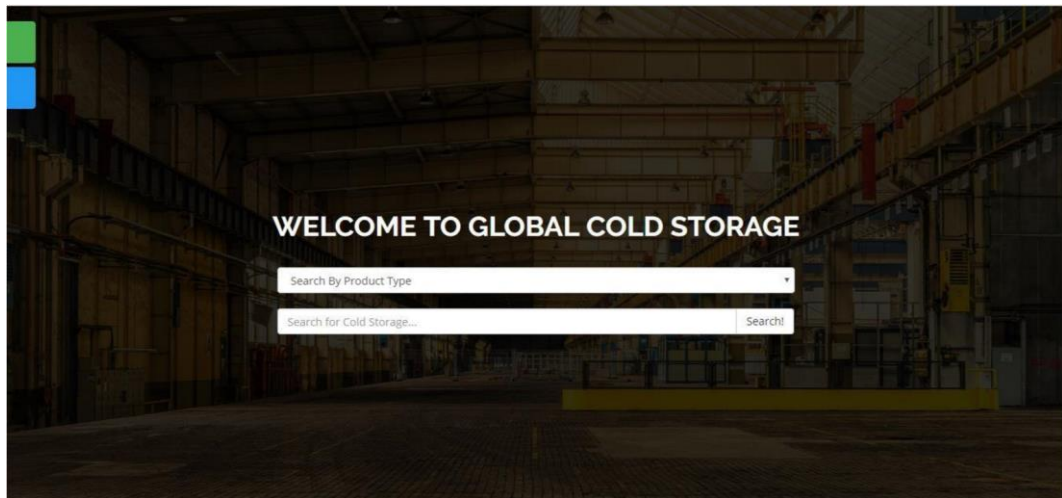


Figure 6.2: during project completion

6.3 Some screen shots during project completion

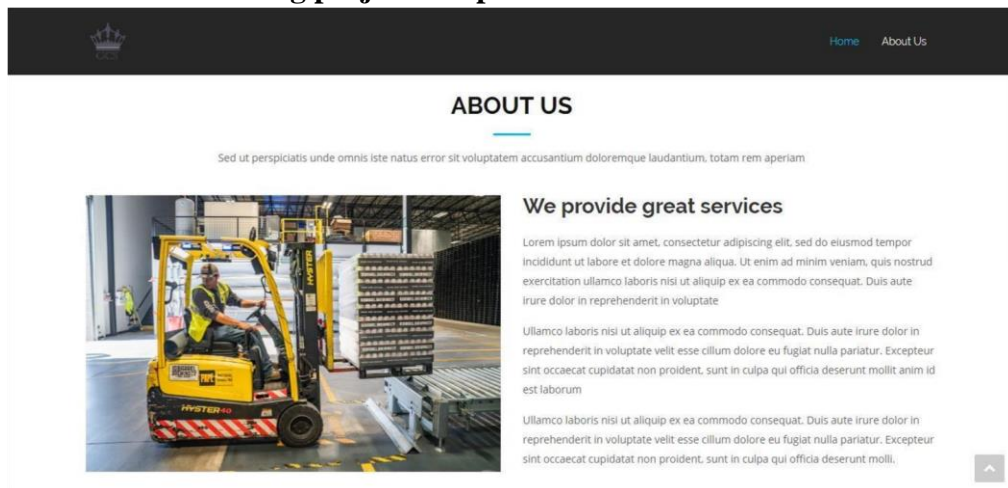
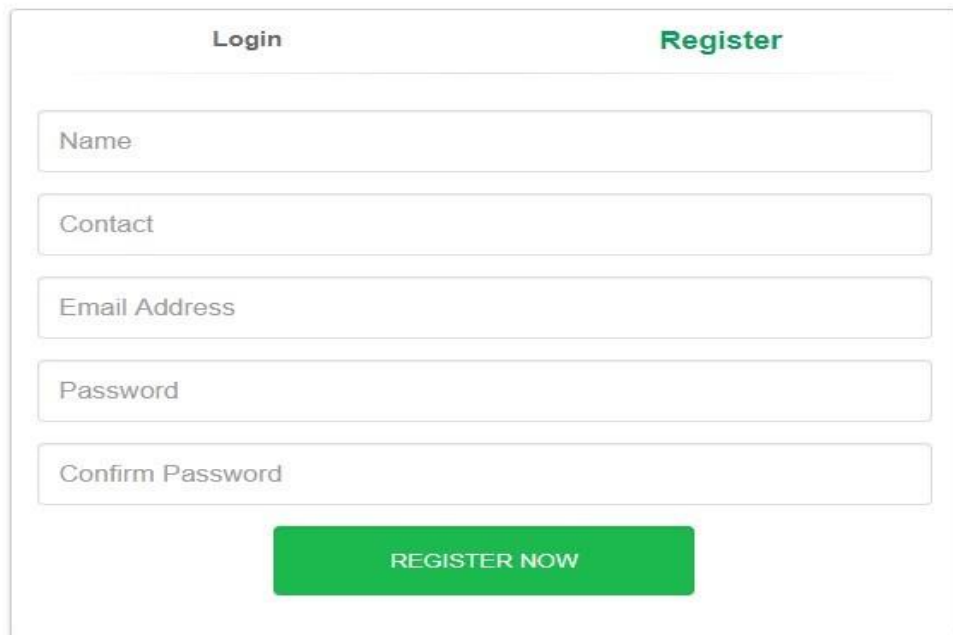


Figure 6.3: During Project completion

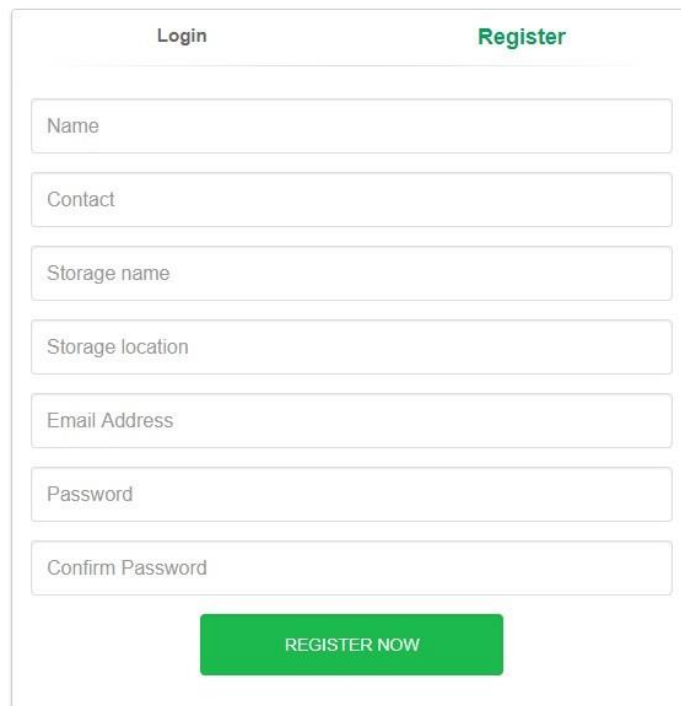
6.4 Client Registration



The Client Registration form is a vertical stack of input fields. At the top, there are two tabs: 'Login' and 'Register', with 'Register' being the active tab. Below the tabs are five text input fields: 'Name', 'Contact', 'Email Address', 'Password', and 'Confirm Password'. At the bottom of the form is a green button labeled 'REGISTER NOW'.

Figure 6.4: Client Registration

6.5 Owner Registration



The Owner Registration form is a vertical stack of input fields. At the top, there are two tabs: 'Login' and 'Register', with 'Register' being the active tab. Below the tabs are seven text input fields: 'Name', 'Contact', 'Storage name', 'Storage location', 'Email Address', 'Password', and 'Confirm Password'. At the bottom of the form is a green button labeled 'REGISTER NOW'.

Figure 6.5: Owner Registration

6.6 Booking

GLOBAL COLD STORAGE Email : imran@hadid.com Dashboard Logout

Cold Storage List

Client Dashboard

Book for cold storage

Storage Name

Required Space (Example: 1kg, 2kg)

Figure 6.6: Booking

6.7 Update

GLOBAL COLD STORAGE Dashboard Logout

Profile Settings

Imran LTD

Dhaka

Egg

Payment/KG

234567890

Storage Capacity

Storage Temperature

Figure 6.7: Update

6.8 Database

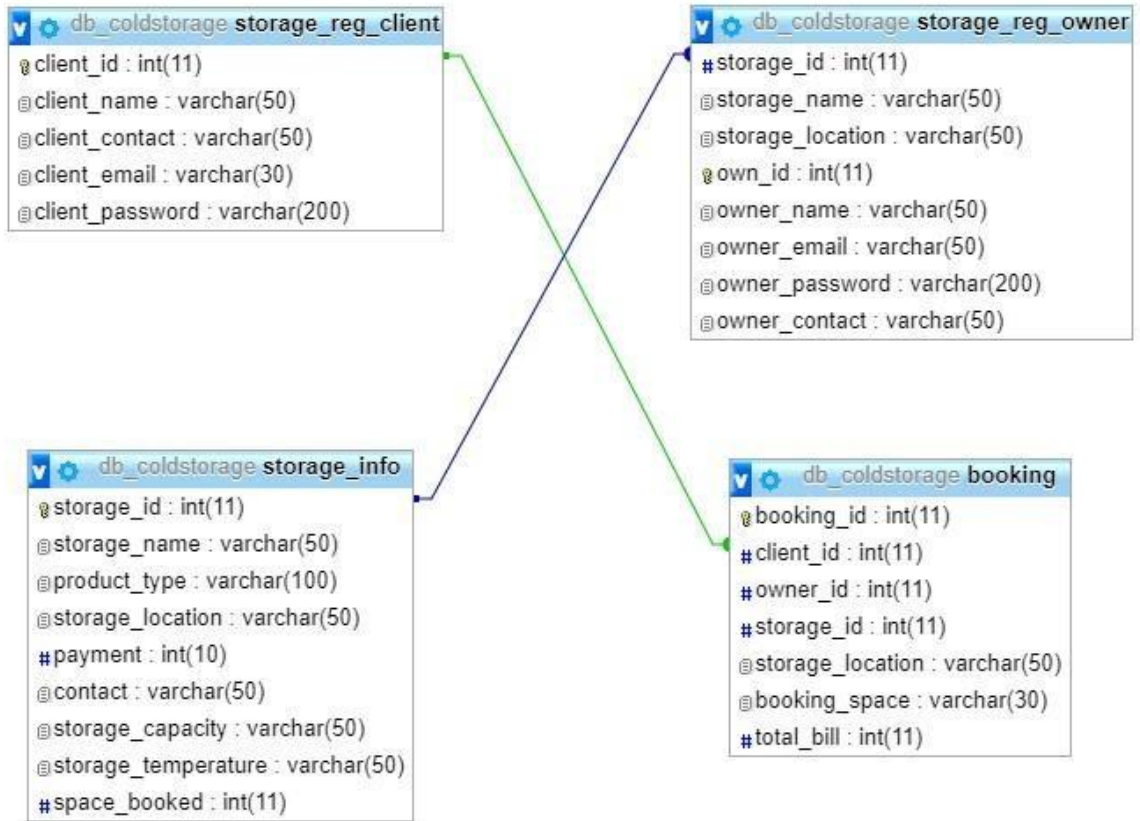


Figure 6.8: Database

CHAPTER 07: REFERENCES

Reference of useful link that is used by us to develop this application. It helped to what it is.

Below, all references are given:

- Bootstrap templates <https://startbootstrap.com/template-categories/all>

FUTURE WORK

Our future intention is to build a complete application where the user can get customer service. They can also Booking storage by IVR. We want to add a feature where people can earn coin for the future purpose like rent a storage space and buy some goods or something like that.