

**Online**

**Gems Shopping System**

**NATIONAL INSTITUTE OF BUSINESS MANAGEMENT**

**GALLE**

**DIPLOMA IN COMPUTER SYSTEM DESIGN 20.1F**

**FINAL PROJECT**

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**Online Gems Shopping System**

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Diploma in Computer System Design 20.1F

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The project is submitted in partial fulfillment of the requirement of the Diploma of Computer System Design of National Institute of Business Management.

**Declaration**

We certify that this project does not incorporate without acknowledgment, any material previously submitted for a Diploma in any institution and to the best of our knowledge and belief, it does not contain any material previously published or written by another person or me except where due reference is made in the text.

**Acknowledgment**

We take this opportunity to thank all these who assisted & encouraged us in many ways to complete out system design project. We would like to thank,

Mrs.Asanthi kurukulasuriya

Finally, we would like to thank our parents, colleagues & friends for being supportive in cur endeavors.

Thank You.

**Preface**

As an academic requirement for the Diploma in Computer System Design (DCSD) at National Institute of Business Management we were instructed to conduct a system study and design Online Gems Shopping System. This project was done under the supervision of Mrs.Asanthi kurukulasuriya.

**Summary of Report**

After analyzing the reservation modules of the Gems fair. Reservation system certain weaknesses were found to overcome those inefficiencies a new fully computerized efficient system was designed with minimum human interface.

The system that we have proposed will provide better results efficiently Gems Shop as well as to the consumer. The new system will provide a reliable computer-based information system while minimizing costs and frauds for this purpose weakness & inadvertent areas of this existing system will study carefully.

From this newly proposed system we were able to solve many drawbacks of the existing system.by adding new efficient features to it.

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## **INTRODUCTION**

An Online Gems Shop The main goal of this project was to create shopping cart, which allows customers to shop and purchase the Gems products online. Moreover, the project is also designed in such a way it lets managers manage the products information. Customers can order products, and they will be contacted to further process the orders.

In today’s busy world, people don’t have time for their personal needs. And the technology fast that anyone can do by sitting in a gem. If someone buy a new thing, he can buy online with the help of Internet.

The application is implemented in PHP and consists of two main components:

* Admin and
* Customer side

**Admin side** consists of the features such as Creating Username & Password, Input Items, Modify Items, Delete items, Query Sale Data, Query Database’s data, and Logout.

**Customer side** consists of the features such as Select Products, Search Products, Buy Items, Continue Shopping, View Cart, Checkout, Sign-in, Creating an Account, Bill/Ship Information, Confirm, Send Order, and Delete Order. There are also the future works for this application. There are mainly two such objectives which are as follows:

* To shop in the comfort of your home, without having to step out of the door.
* To be able to easily save money and compare prices from website to website.

## **Terms of Reference**

This system study will investigate the existing manual Reservation system of Online Gems shopping and recommends fully computerized system. In this project we intend to,

* Study the exiting manual Reservation System
* Identify the weakness of the existing system &provide better solutions.
* Design a computerized system to increase the work speed, efficiency& which provides the required documents &answer inquires.
* Produce more reports efficiently & accurately whenever management needs.
* Provide better service for the customer by aghast& efficient transaction process.
* Explain the recommended hardware/software needs & the benefits of this proposed reservation system.

## **Scope of Study**

The scope of this system is to provide user comfortable environment of Purchasing and selling products and services over the internet without the need of going physically to the market is what online shopping all about. Online shopping is just like a retail store shopping that we do by going to the market, but it is done through the internet. Online shopping has made shopping painless and added more fun.

Online stores offer product description, pictures, comparisons, price and much more. Few examples of these are Amazon.com, ebay.com, [framt.com](http://www.framt.com/) and the benefits of online shopping is that by having direct access to consumer, the online stores can offer products that cater to the needs of consumer, cookies can be used for tracking the customer selection over the internet or what is of their interest when they visit the site again. Online shopping makes use of digital technology for managing the flow of information, products, and payment between consumer, site owners and suppliers. Online shopping can be either B2B (business to business) or B2C (business to consumer)

Shopping cart is one of the important facilities provided in online shopping, this lets customer to browse different goods and services and once they select an item to purchase, they can place the item in shopping cart and continue browsing till the final selection have in the database. Limited access is available to the operator. As this is generic software it can be used by a wide variety of outlets (Retailers and Wholesalers) to automate the process of manually maintaining the records related to the subject of maintaining the stock and cash flow.

## **1.3 Objectives of Study**

The objectives of the study according to the terms of reference are,

* To analyze the exiting computerized system & detect its inefficiencies.
* To decrease the workload of employee by reduction of manual work.
* To provide better service for users

## **1.4 Methodology**

The following fact-finding techniques were used for our system study.

* Data collection was done by interviewing front office staff members & also some of senior managerial level employees & with the workers. By conducting interviews, we were able to collect most of the required information about the existing system.
* Then we held discussion & interviews with the people who participate to perform the manual reservation system. All source documents related to the process were obtained & studied. All reports were collected & studied as possible.
* The weak areas of the system were identified & recommendations were made to create the proposed system efficient & reliable.
* Then we started to design the new system after analyzing the data collected.
* For the design we used following methods
* ER diagram Use case diagram, Sequence diagram, Context diagram, Data Flow Diagram.
* Database part was done by PHP MySQL.
* Then documents & reports were design by using Vision.
* Finally collected all things & printed.

## **1.5 Objectives of the System**

* **General & Technical objectives.**

Every information system is expected to have some specific qualities that enable it to differ from other systems

* **Minimize Data Duplication**

The files in the system should not duplicate data often. Data duplication is the main cause for difficulties in searching data.

* **Availability of Data.**

The top management of the organization will be able to have a bird's eye view of the data in making decisions They will also be able to stimulate future situations and ask what if questions from the system. This will enable them to find how profitable the organization is running.

* **Up to Date**

The data available should be up to date.

* **High Storage Capacity**

Large amounts of data should be handled without harming any sensitive data 's.

* **Data Integrity.**

For the information to be accurate the data should be correct.

* **Specific**.

Using online forms to easily view add, update records of customers Using validation rules, input masks and format checks to ensure integrity of data and minimize data input error Using combo box to enable the user to select one of the Options from the list instead of typing text Bound combo box can be used to store the selected value into the field.

* **Security**

This system is much more secure: the data is kept in files and can be secured by a simple password. in this system fire walls and locks can be inserted to prevent in vision of privacy and data can be easily secured.

* **Backup’s**

The files that are stored can be saved indifferent places. This would be very beneficial for the business because if accidentally the data in erased the firm would not have much loss and data can easily be recovered.

* **Efficiency**

The computerized system is very efficient. It works at high speed and handles files very easily. The results are always accurate provided that the information is correct.

## **1.6 Duration of the Project**

|  |  |
| --- | --- |
| **Activity** | **Time Period** |
| Project planning   * Initial planning * Feasibility study | 1 Week |
| System analysis   * Requirement gathering * Analysis of the system | 1 Week |
| Project proposal submission & approval | 2 Week |
| System Design   * UML diagram design * ER design * File design * Report & system output layout design | 3 Week |
| Preparing project Documentation   * Report & documentation * Submission of Final report | 7 Week |
| **Total** | 14 Week |

# CHAPTER 02

## **EXISTING SYSTEM**

## **2.1 Functional Requirements**

|  |  |
| --- | --- |
| Function 1 | **Reservation** |
| Input | Name, Email, Phone Number |
| Output | Confirmed |
| Processing | Validate the given details and check for the available Gems |

*Table1: 2.1. Reservation*

|  |  |
| --- | --- |
| Function 2 | **Add Admin** |
| Input | User ID, Username, Password |
| Output | Database Record, Database successfully updated message |
| Processing | Validate the given details and record the information into the database. |

*Table 2:.2.1 Add Admin*

|  |  |
| --- | --- |
| Function 3 | **Edit Profile** |
| Input | Password |
| Output | Send details to owner profile |
| Processing | Save input data and update |

*Table3: 2.1Edit Profile*

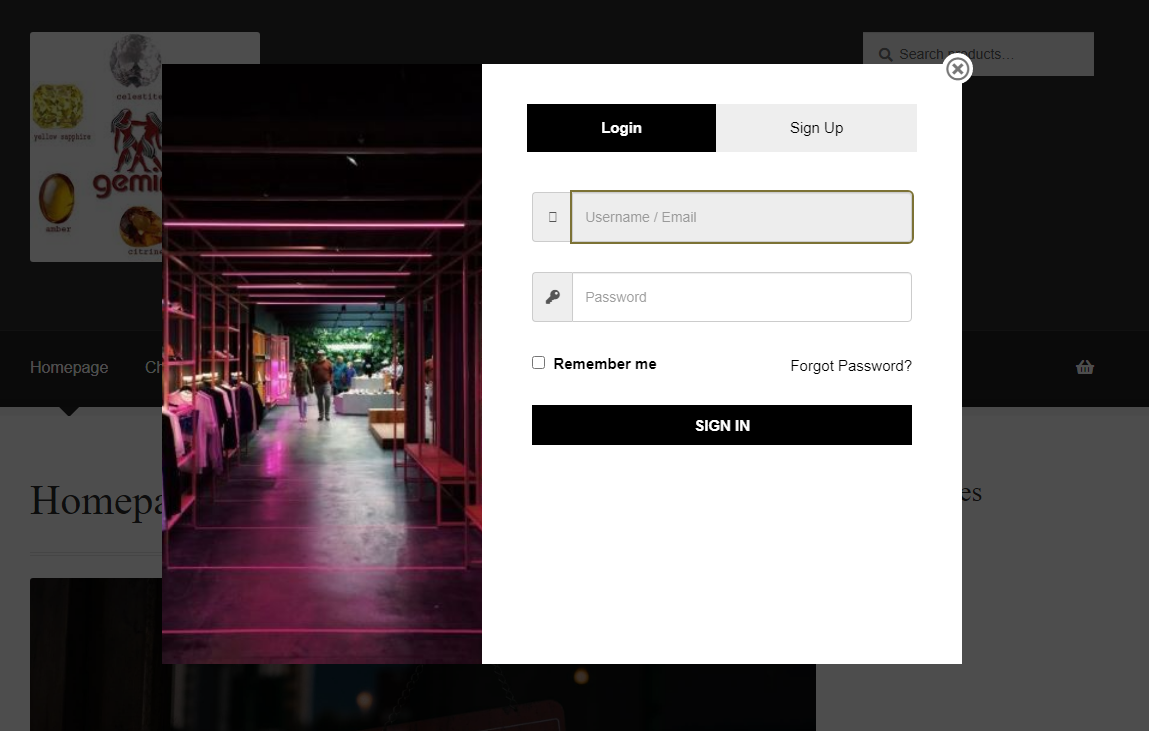
|  |  |
| --- | --- |
| Function 4 | **Add User** |
| Input | Username, Password, Email, Address, Country, Mobile, Gender |
| Output | Send details to owner profile |
| Processing | Save input data and add a new user |

*Table4: 2.1Add User*

|  |  |
| --- | --- |
| Function 5 | **Manage User** |
| Input | Username |
| Output | Send details to owner profile -->edit profile |
| Processing | Edit and save user details |

*Table5: 2.1Manage User*

## **2.2 Gems Shop Background**



*Figure1: 2.2 Gems Shop Background*

## **2.2.1 Vision and Mission**

**Vision**

Our vision is to enable the affordability of perfect quality mineral gemstone wears to all the global citizens by leading the trade.

**Mission**

Our mission is to celebrate the passion by offering the perfect mineral precious stones to the local and international market at competitive price with high business ethics and responsibility.

## **2.3 Existing system**

The existing system is a manual system. The proposed system tries to simplify the difficulties encountered in manually handling information about the member details, creditor details, purchase, sales, and payments.

The existing system requires a number of records and takes a huge amount of time for the process completion. When we compare the existing system with the proposed system, there are many drawbacks for the existing system.

In the current system there is a chance of unauthorized access of data this may cause change in the original data and also loss of the data. These may result bad assessment in the shop performance. The existing system, all calculations are done manually. For this purpose, the organization needs a person with well mathematical knowledge and also these manual calculations take more time and chance of error is very high. so, it cannot produce accurate results at every time. It is difficult to place an order to files, so searching of a file is also very difficult and it is a time-consuming process.

## **2.3.1 Evaluation of Existing System**

**Negative points.**

- In order to perform various operations, the staffs have to refer to various written documents and thus create several paper works.

- The existing system is time consuming.

- Large storage area is required.

- Less reliable due to human errors.

- Low processing speed.

- There is a chance of redundancy.

- Inaccuracy in calculations.

- Current system does not provide any security.

- Searching or modification of a record is very difficult.

- Difficult in producing reports.

**Positive points**

- Data manipulations are more reliable and accurate.

- Making, searching, and updating very easy.

- User friendly.

- Portable and flexible.

- Timely and accurate information can be obtained.

- Prevent data redundancy.

- Helps to make well formatted reports.

- Reduce workload of employees.

- Reduce storage space.

- Reduce complexity of manual calculations.

- Reduce manual work.

- Better security provides.

- Enables to view large volume of data in a short period of time.

- Does not call for additional staffing requirements.

- Provides efficient decision due to effective and accurate reports.

# CHAPTER 03

## **ANALYSIS AND DESIGN**

## **3.1 Feasibility Study**

The software requirement specification is produced at the culmination of the analysis All projects are feasible given unlimited and resource and infinite time. Unfortunately, the development of computer-based system is more likely to be plagued by scarcity of resources and difficult delivery dates.

Feasibility study is a system proposal according to its workability, impact on the organization, ability to meet user needs and efficient use of resources. Feasibility study identifiers, describes, and evaluates the candidate system and select the best system for the job. An important outcome of the preliminary investigation is determining whether the system requested is feasible or not. After the proposed system was found to be social and technically acceptable, it was tested for economic feasibility.

* **Operational Feasibility**

This is necessary to know whether the system is operationally feasible. It checks whether the system is flexible for the user to use and whether all the operations are working correctly and effectively. The newly developed Gems management system satisfies all the operational conditions

* **Economic Feasibility**

The proposed system insures very low cost for the development and implementation. The system can work on systems with a configuration and connectivity which causes no excessive cost for implementation or usage. Data charge is the only cost that incurred once the software is installed on the system. The study is carried out to check the economic impact that the system will have on the organization. The amount of fund that the company can pour into the research and development is limited. The expenditure must be justified. Thus, the developed system as well within the budget and this was achieved because most of the technologies used are freely available. Only the customized products had to be purchased. All you really need to do is install the software on your system and activate it.

* **Technical Feasibility**

There may be a number of technical issues, which are generally raised during the feasibility stage of the investigation. Programming languages, other hardware and software specifications are easily available for this system development. Hence the proposed system is technically feasible. The considerations that are normally associated technical feasibility include.

- Development Risk.  
- Resource Availability.  
- Technology.

#### **Behavioral Feasibility**

It centers on the reaction of the users, since the system is not so complicated it is easily understandable by anyone. User training is also very easy. The user must not feel threatened by the system, instead must accept it as a necessity. The user also does not need to have any concept of the software used for developing the system.

## **3.2 Objectives of Proposed System**

* To enable online order via the internet.
* To enable automated data entry methods.
* Ensure efficient and reliable communication within the Gems Shop.
* Avoid data entry errors by use of input masks.
* Enable easy authorized modification of data.
* Enforce security measures to avoid unauthorized access to guest records.
* Enable fast and easy retrieval of guest records and data for fast reference activities.

## **3.3 Benefits of the Proposed System**

* The system enables easy and fast access to the guest files
* The system provides better data management facilities.
* The system enables online buying.
* The system provides security measures to access to the Gems Shop’s information lowering data security threats.
* The system help reduce the congestion of guests ensuring best service output for customer satisfaction purposes.
* Easy update of the customer records.
* High customer service standard attracts more guests to the Gems Shop.
* Greatly reduce paper use at the Gems Shop.

## **3.4 ER Diagram**

Diagram

Description automatically generated with low confidence

*Figure2:3.4 ER Diagram*

## **3.5 DFD Diagram**

### **3.5.1 Relation schema first normalization Diagram**

**Graphical user interface, application, Word

Description automatically generated**

**Graphical user interface, application, Word

Description automatically generated**

*Figure3: 3.5.1 Relational Schema Diagram 1NF*

### **3.5.2 Context Diagram**

**Customer**

Register Basic information Buy Gems Display Available Gems

0

**Online Gems Management System**

Register Basic Info Maintain the System Display Records

**Admin**

*Figure 4: 3.5.2 Context Diagram*

### **3.5.3 Level 0**

**Diagram

Description automatically generated**

*Figure 5: 3.5.3 level0 Diagram*

### **3.5.4 Use Case Diagram**

Admin

Customer

*Figure 6: 3.5.4 Use case Diagram*

### **3.5.4.1 Use Case Scenarios**

|  |  |  |
| --- | --- | --- |
| Use case Name | Make Reservation | |
| Goal | Add a new reservation | |
| Primary Actors | User | |
| Secondary Actors | None | |
| Precondition | User should not already be existing | |
| Post condition | Gems Shop User Details updated to include current User | |
| Triggers |  | |
| Main flow | Step | Action |
| 1 | User Enter gems Details |
| 2 | System searches for gems details |
| 3 | System presents types and tariffs | |
| 4 | User selects gems and confirms tariff | |
| Extensions |  |  | |

*Table6: 3.5.4.1 Make Reservation*

|  |  |  |
| --- | --- | --- |
| Use case Name | Check Availability | |
| Goal | To check whether a gems available or not | |
| Primary Actors | Admin | |
| Secondary Actors | None | |
| Precondition | Login to the system. | |
| Post condition |  | |
| Triggers |  | |
| Main flow | Step | Action |
| 1 | Display User interface |
| 2 | Select Availability Tab |
| 3 | Enter gems type, duration, | |
| 4 | System check gems availability relevant to each requirement | |
| 5 | Display available gems details | |
| Extensions | 4.1 | No gems available for entered details and display “No gems Available” | |

*Table7: 3.5.4.1 Check Availability*

|  |  |  |
| --- | --- | --- |
| Use case Name | Add User | |
| Goal | Add a new User | |
| Primary Actors | Admin | |
| Secondary Actors | None | |
| Precondition | Log in to the system | |
| Post condition |  | |
| Triggers |  | |
| Main flow | Step | Action |
| 1 | Admin selects “Add User” button |
| 2 | System prompts to fill out user details |
| 3 | System validates details | |
| 4 | Update database | |
| 5 | Display “Successful message” | |
| Extensions |  |  | |
| 3.1 | User details are incorrect, Display the message "Unsuccessful" and display Add User option. | |

*Table8:3.5.4.1 Add User*

|  |  |  |
| --- | --- | --- |
| Use case Name | Add Gems | |
| Goal | Add a new gem to the system | |
| Primary Actors | Admin | |
| Secondary Actors | None | |
| Precondition | Log in to the system | |
| Post condition |  | |
| Triggers |  | |
| Main flow | Step | Action |
| 1 | Admin clicks “add gems” button |
| 2 | System prompts the admin to fill out gems details |
| 3 | System validates new gems information | |
| 4 | System creates a new gem | |
| 5 | Update database | |
| 6 | Display “successful “message | |
| Extensions |  |  | |
| 3.1 | Gems details are incorrect, Display the message "Unsuccessful" and display gems management option. | |

*Table9:3.5.4.1 Add Gems*

|  |  |  |
| --- | --- | --- |
| Use case Name | Update, Delete gems | |
| Goal | Update, Delete a gems from the system | |
| Primary Actors | Admin | |
| Secondary Actors | None | |
| Precondition | Log in to the system | |
| Post condition |  | |
| Triggers |  | |
| Main flow | Step | Action |
| 1 | Admins select “Update, delete gems” option |
| 2 | Display delete, Update gems option |
| 3 | Admins select the gems | |
| 4 | System displays confirm message | |
| 5 | Users select confirmation | |
| 6 | Update database | |
| 7 | Display “successful message’ | |
| Extensions |  |  | |
| 4.1 | If user select “Yes” details are remove from the database. Else cancel the process | |

*Table10: 3.5.4.1 Update, Delete Gems*

|  |  |  |
| --- | --- | --- |
| Use case Name | search | |
| Goal | user information | |
| Primary Actors | Admin | |
| Secondary Actors | User | |
| Precondition | Log in to the system | |
| Post condition |  | |
| Triggers | Admin searches for User | |
| Main flow | Step | Action |
| 1 | Users select search option |
| 2 | System displays search interface |
| 3 | User enters details | |
| 4 | System validates user inputs | |
| 5 | Display search results | |
| Extensions |  |  | |
| 4.1 | User inputs are invalid and prompt  Display unsuccessful message | |

*Table11: 3.5.4.1 Search*

|  |  |  |
| --- | --- | --- |
| Use case Name | Update Password | |
| Goal | Update Password from the system | |
| Primary Actors | Admin | |
| Secondary Actors | None | |
| Precondition | Log in to the system | |
| Post condition |  | |
| Triggers |  | |
| Main flow | Step | Action |
| 1 | Admins select “Update Password” option |
| 2 | Display Update Password option |
| 3 | Admin Update the Password | |
| 4 | System displays confirm message | |
| 5 | Admins select confirmation | |
| 6 | Update database | |
| 7 | Display “successful message’ | |
| Extensions |  |  | |
| 4.1 | If Admin select “Yes” current Password are remove from the database. Else Update the New Password | |

*Table12: 3.5.4.1Update Password*

|  |  |  |
| --- | --- | --- |
| Use case Name | Cancel Order | |
| Goal | Cancel Order from the system | |
| Primary Actors | Admin | |
| Secondary Actors | None | |
| Precondition | Log in to the system | |
| Post condition |  | |
| Triggers |  | |
| Main flow | Step | Action |
| 1 | Admins select “Cancel Order” option |
| 2 | Display Cancel Order option |
| 3 | Admin Cancel Order | |
| 4 | System displays confirm message | |
| 5 | Admins select confirmation | |
| 6 | Update database | |
| 7 | Display “successful message’ | |
| Extensions |  |  | |
| 4.1 | If Admin select “Yes” Cancel Order are remove from the database. | |

*Table13: 3.5.4.1Cancel Order*

|  |  |  |
| --- | --- | --- |
| Use case Name | View Payment, View Registration | |
| Goal | View Payment, View Registration from the system | |
| Primary Actors | Admin | |
| Secondary Actors | None | |
| Precondition | Log in to the system | |
| Post condition |  | |
| Triggers |  | |
| Main flow | Step | Action |
| 1 | Admins select View Payment, View Registration option |
| 2 | Display View Payment, View Registration option |
| 3 | Admin View Payment, View Registration | |
| 4 | System displays confirm message | |
|  |  | |
|  |  | |
|  |  | |
| Extensions |  |  | |
| 4.1 | If Admin View Payment, Registration | |

*Table14: 3.5.4.1View Payment and View Registration*

|  |  |  |
| --- | --- | --- |
| Use case Name | Slider Add, Update, Delete | |
| Goal | Admin Can Slider Add, Update, Delete | |
| Primary Actors | Admin | |
| Secondary Actors | None | |
| Precondition | Log in to the system | |
| Post condition |  | |
| Triggers |  | |
| Main flow | Step | Action |
| 1 | Admins select Slider |
| 2 | Display Slider |
| 3 | Admin Slider Add, Update, Delete | |
| 4 | System displays confirm message | |
|  |  | |
|  |  | |
|  |  | |
| Extensions |  |  | |
| 4.1 | If Admin can Slider Add, Update, Delete | |

*Table15: 3.5.4.1Slider Add, Delete, Update*

## **3.6 File Design**

|  |  |
| --- | --- |
| Name | Data Type |
| id (primary key) | int |
| username | varchar |
| password | varchar |

*Table16:* *3.6 admin*

|  |  |
| --- | --- |
| Name | Data Type |
| id (primary key) | int |
| name | char |
| email | varchar |
| password | varchar |
| mobile | varchar |
| address | varchar |
| gender | Enum (‘male’, ’female’) |
| country | varchar |

*. Table17: 3.6 customer*

|  |  |
| --- | --- |
| Name | Data Type |
| id (primary key) | int |
| name | char |
| email | varchar |
| phone | varchar |
| address | varchar |
| City | varchar |
| country | varchar |
| Zip | int |
| gems type | varchar |
| gems price | int |
| check\_in\_date | date |

*Table 18: 3.6 reservation*

|  |  |
| --- | --- |
| Name | Data Type |
| gems\_id (primary key) | int |
| gems\_no | int |
| type | varchar |
| price | int |
| details | Text |
| image | varchar |

*Table 19: 3.6 gems*

|  |  |
| --- | --- |
| Name | Data Type |
| id (primary key) | int |
| name | varchar |
| bank | varchar |
| Card\_no | int |
| security | int |

*Table 20: 3.6 payment*

|  |  |
| --- | --- |
| Name | Data Type |
| id (primary key) | int |
| image | varchar |
| caption | varchar |

*Table21: 3.6 slider*

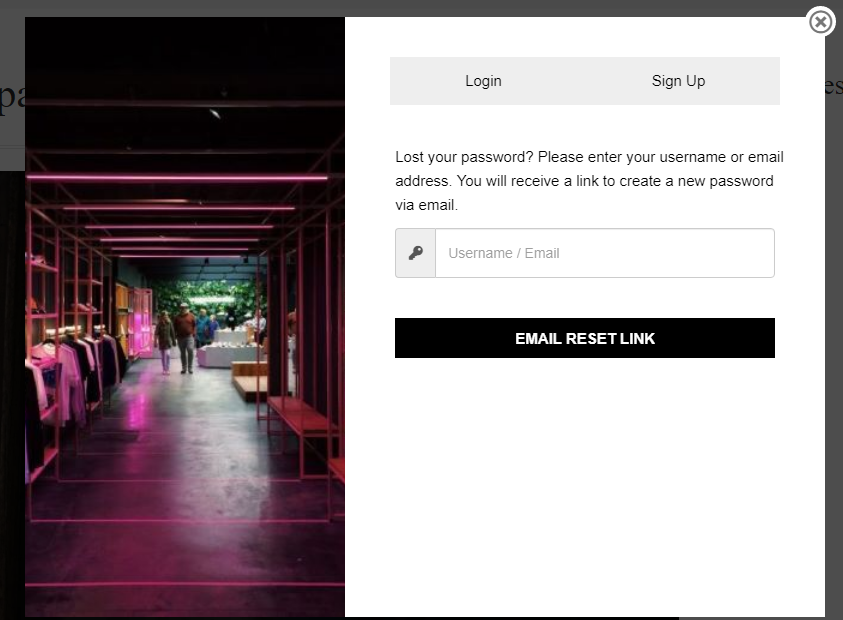
## **3.7 Screen Design**

### **3.7.1 Admin Login Form & Forgot Account**

Graphical user interface, website

Description automatically generated

*Figure7: 3.7.1Admin Login Form*



*Figure8: 3.7.1Forgot Account Form*

### **3.7.2 User Login Form & Create New Account**

Graphical user interface, website

Description automatically generated

*Figure9: 3.7.2User Login Form*

Graphical user interface, website

Description automatically generated

*Figure10: 3.7.2 Create New Account Form*

### **3.7.3 Home Page**

Graphical user interface, website

Description automatically generated

*Figure11: 3.7.3Home Page-1*

Graphical user interface, website

Description automatically generated

*Figure 12: 3.7.3 Home Page-2*

### **3.7.4 Gems Type**

A screenshot of a computer

Description automatically generated

*Figure 13: 3.7.4 Gems Type-1*

Graphical user interface, application

Description automatically generated

*Figure 14: 3.7.4 Gems Type-2*

### **3.7.5 Payment & Feedback**

Graphical user interface, application

Description automatically generated

*.*  *Figure 15: 3.7.5 Payment Form*

Graphical user interface, application

Description automatically generated

*Figure 16: 3.7.5 Feedback Form*

### **3.7.6 Search Bar & check Availability**

A screenshot of a computer

Description automatically generated with medium confidence

*Figure 17: 3.7.6 Search Bar*

*A screenshot of a computer

Description automatically generated*

*Figure 18: 3.7.6 Search Result*

# CHAPTER 04

## **IMPLEMENTATION**

## **4.1 Source Code**

### **4.1.1 Database Sql Queries**

*Graphical user interface, text, application

Description automatically generated*

*Figure 19: 4.1.1 Database Sql Queries-1*

Graphical user interface, text, application, Word

Description automatically generated

*Figure 20: 4.1.1 Database Sql Queries-2*

Graphical user interface, text, application

Description automatically generated

*Figure 21: 4.1.1 Database Sql Queries-3*

Graphical user interface, text, application

Description automatically generated

*Figure 22: 4.1.1 Database Sql Queries-4*

Graphical user interface, text, application

Description automatically generated

*Figure 23: 4.1.1. Database Sql Queries-5*

Graphical user interface, text, application

Description automatically generated

*Figure 24: 4.1.1 Database Sql Queries-6*

*Graphical user interface, text, application

Description automatically generated*

*Figure 25: 4.1.1 Database Sql Queries-7*

### **4.1.2 Index. Php**

Graphical user interface, text, application, Word

Description automatically generated

*Figure 26: 4.1.2 Index. Php*

### **4.1.3 Login. php**

*Graphical user interface, text, application

Description automatically generated*

*Figure 27: 4.1.3 Login. Php-1*

Graphical user interface, text, application, email

Description automatically generated

*Figure 28: 4.1.3. Login. Php-2*

### **4.1.4 Sign-Up. Php**

Graphical user interface, text, application

Description automatically generated

*Figure 29: 4.1.4. Sign-Up. Php-1*

*Graphical user interface, text, application

Description automatically generated*

*Figure 30: 4.1.4 Sign-Up.Php-2*

# CHAPTER 05

## **TESTING**

## **5.1 Test Case**

|  |  |
| --- | --- |
| Test Case NO | 01 |
| Input | Username: Admin  Password: 12345 |
| Process | Check whether username and password correct and match with each other. |
| Expected Output | Output message “Login successful”. Loading the admin page. |
| Comment | Username and password must be correct. |

*Table22: 5.1 Test Case-1*

|  |  |
| --- | --- |
| Test Case NO | 02 |
| Input | Username: Admin  Password: 123 |
| Process | Check whether username and password correct and match with each other. |
| Expected Output | Error message “Login failed”. |
| Comment | Username and password must be Incorrect. |

*Table23: 5.1 Test Case-2*

|  |  |
| --- | --- |
| Test Case NO | 03 |
| Input | Username: Customer  Password:123 |
| Process | Check whether username and password correct and match with each other. |
| Expected Output | Output message “Register Successful”. |
| Comment | Username and password must be correct. |

*Table24: 5.1 Test Case-3*

|  |  |
| --- | --- |
| Test Case NO | 04 |
| Input | Username: Customer  Password: 456 |
| Process | Check whether username and password correct and match with each other. |
| Expected Output | Output message “Register Failed”. |
| Comment | Username and password must be Incorrect. |

*Table25: 5.1 Test Case-4*

# CHAPTER 06

## **COST AND BENEFITS**

## **6.1 Required facilities**

## **6.1.1 Hardware Required facilities**

Computer configuration

Processor - intel core i5 8th gen

RAM - 8gb RAM

Storage - 512 SSD

Printer - Dot matrix printer

Display - HP 24’’ Monitor

Keyboard - Microsoft compatible keyboard

Mouse - Microsoft compatible mouse

## **6.1.2 Software Required facilities**

* Windows 10
* Html, BOOTSTRAP, Notepad++, PHP MYSQLI, WampServer, Chrome
* WordPress
* Development of software for new system will be done using most of the Microsoft Development tools.

## **6.2 Cost**

## **6.2.1 Initial Cost**

The Cost that the Organization has to afford only at the initial stage of the computerization process such as hardware cost, software cost, setup cost and new employee recruitment cost.

**Hardware Cost**

Estimated Cost of hardware products of this system.

Personal Computer 50,000.00

Printer 15,000.00

Network 8,000.00

Above values are estimated from the information gained through leading computer accessory dealers based on current market price.

**Software Cost**

The Cost used to develop the software incurred mainly at the inspection.

**Setup Cost**

The Cost that involved in placing computer & other equipment.

Computer tables & chair are also included to this cost.

**Recruitment Cost**

Sometimes the company may need to recruit some employees with computer knowledge in order to operate the system.

## **6.2.2 Current Cost**

The cost involved with the system frequently.

**Maintenance Cost**

There will be a considerable maintenance cost involved when using computers in office environment. this includes electrical bills & other overheads involves in maintaining system.

Services, when a computer is used for a long time involves a cost for servicing the computer parts of the system.

Ex: Printers

Salaries, if new employee are recruited with computer knowledge. the company must be paid monthly. Therefore, their salary involves a considerable overhead to the company after the introduction of the computer.

## **6.3 Advantages and Disadvantages**

## **6.3.1 Advantages**

* **Massive choice:**

This particular point is one of the biggest advantages of online Gem’s shopping and at the same time a disadvantage too. On the other hand, choice and diversity means that you will find what you are looking for, even if you are not very certain what exactly it is and you will find it at the best possible price, which brings us to the next point.

* **Competitive prices:**

it is logical for the prices to be more competitive online, exactly because of the massive choice. The convenience of being the only Gem in town is replaced online, by the alternative of being a Gems shop in enormous "Gems only" shopping mall with thousands of Gems shops next to each other, selling similar merchandise. The online Gems retail stores are running on very low cost, enabling the merchants to significantly narrow their markup margins and still make reasonable profit.

* **Information:**

Any information about Gems, diamonds and precious stones is widely available on the net and you don't need particular computer skills or a lot of time to obtain it. Armed with knowledge and ability to compare value for money at the click of the mouse the online customer is not to be taken for granted. Today's Gems, whether they like it or not, will face educated customers, longing for the best value for their hard-earned cash.

* **Time saving:**

This advantage of online Gem’s shopping is very obvious. The time necessary to visit an online Gems, looking for particular piece is an average of 6 minutes if you are using the assistance of Gems Gateway and about 20 minutes otherwise, considering the search and checking the sometime surprisingly well positioned irrelevant hits. The time to visit a conventional Gems shop depends on many factors, but it will suffice to say that it is not in the comparable margins

* **Convenience:**

Very much connected to the time topic but there is more. We would like to mention, time taken from work, time taken on weekend (depending on the Gem's trading hours), making an appointment (and stick to it), driving to and from, looking for parking etc. After all this effort the inventory you will be seeing will be limited in comparison to your online choice. The guidance and advice you will be given will be sale orientated and, in most cases, not 100% objective.

## **6.3.2 Disadvantages**

* **Relatively large amounts paid in advance:**

This is one matter with roots in the psychological background of most of us and it takes time to override it. The modus operandi of small-scale trade for millennia is to immediately get what you paid for.

* **Security of payment and shipping:**

The security of your payment is a serious issue, and you have to make sure it is properly dealt with by checking the security policy of the Gems merchant. In many cases though, the merchant is as exposed to fraud, as the customer and even more, since he have to ship an expensive Gems before the payment is cleared. The customer have 3 to 7 days window to cancel the payment, while the shipping is irreversible.

* **Impossibility to examine and try on:**

A major disadvantage, since very few pieces of Gems fit well everybody. The touch of the polished gold or the glitter of a real diamond is impossible to simulate fully on the web page and thus, lives space for misconception. However, this is promptly addressed with the implementation of proper return policy. A good return policy is one which provides a 30-day money back guarantee or possibly longer.

* **Impatience and Conservatism:**

These personal qualities of some customers are big disadvantage to the online Gems shopping and unfortunately there is no viable strategy to deal with them. My only advice to the customer in doubt is: Give it a chance. It may turn the hassle and hesitation into a pleasurable and exiting experience.

# CHAPTER 07

## **CONCLUSION AND FUTURE EXTENSIONS**

## **7.1 Conclusion**

While developing the system a conscious effort has been made to create and develop a software package, making use of available tools, techniques, and resources – that would generate a proper System While making the system, an eye has been kept on making it as user-friendly, as cost-effective, and as flexible as possible. As such one may hope that the system will be acceptable to any user and will adequately meet his/her needs. As in case of any system development processes where there are a number of shortcomings, there have been some shortcomings in the development of this system also. The project is still under modification.

## **7.2 Future Extension**

The scope of the project includes that what all future enhancements can be

done in this system to make it more feasible to us:-

* Databases for different products range and storage can be provided.
* Multilingual support can be provided so that it can be understandable by the person of any language.
* More graphics can be added to make it more user-friendly and understandable.
* Manage & backup versions of documents online.

**REFERENCES**

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<https://www.javatpoint.com/php-tutorial>

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