

JEWEL STONE

PROJECT SYNOPSIS

OF MAJOR PROJECT

BACHELOR OF TECHNOLOGY

Information Technology

SUBMITTED BY-

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1. INTRODUCTION eCommerce websites are online portals that facilitate online transactions of goods and services through means of the transfer of information and funds over the Internet. Now, with a single **website**, anything and everything that a transaction needs, can be executed online. The process of searching for and purchasing goods and services over the Internet through the use of a web browser is known as **online shopping**. The main allure of online shopping is that consumers may find and purchase items they need (which are then shipped to their front door) without ever needing to leave the house. Today, almost anything can be purchased through online shopping, amounting to billions of dollars a year in sales.

2. Identification of problem domain:

- In current situation people are afraid of buying costly products online especially like jewelry just because they are afraid of the chances of fraud or faulty products. But our website will provide the customer the trusted verified jewelry products on which they can trust blindly as the website will consist of the trusted local area goldsmith and there will be a full transparency between the customer and seller.
- Nowadays because of huge amount of online market worldwide there is no surety of authentic and original product. But our website will provide a direct connection between the goldsmith and customer and that too with full home service.

3. Feasibility study of project proposal:

Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirement and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

- a) **Economic Feasibility:** This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.
- (i) Our project is made at very low cost.
 - (ii) It also benefits the outweigh costs.
 - (iii) There is no expenditure on the hardware.
 - (iv) It will save the manual work. No wastage of time and fuels is there. You just need an internet connection to run the website.

- (v) Overall, we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

b) **Technical Feasibility:**

- (i) The project is within the limits of current technology.
- (ii) It is available between resource constraints.
- (iii) It is also upgradable according to the users need.
- (iv) It can be easily applied to current problems.
- (v) It is designed according to the latest demand and technology.

- c) **Operational Feasibility:** No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system.

4. Implementation Methodology:

Model View Controller or MVC as it is popularly called, is a software design pattern for developing web applications. A model view controller pattern is made up from the following parts:

- **Model:** The lowest level of the pattern which is responsible for the maintain data.
- **View:** This is responsible for displaying all or a portion of the data to the user.
- **Controller:** Software Code that controls the interactions between the model and views.

MVC is popular as it isolates the application logic from the user interface layer and supports separation of concerns. Here the Controller receives all requests for the application and then works with the model to prepare any data needed by the view. The view then uses the data prepared by the controller to generate a final presentable response.

5. Objectives and methodology of the proposed work:

- a) Database designing and table formation.
- b) Inquiry and user profiling.
- c) UI/UX designs and mapping.
- d) Testing and Usability.
- e) Optimization and maintenance.

6. Introduction to PHP

PHP is a powerful language and the interpreter, whether included in a web server as a module or executed as a separate CGI binary, is able to access files, execute commands and open network connections on the server. These properties make anything run on a web server insecure by default. PHP is designed specifically to be a more secure language for writing CGI programs than Perl or C, and with correct selection of compile-time and runtime configuration options, and proper coding practices, it can give you exactly the combination of freedom and security you need.

7. MySQL

Microsoft SQL Server is a full-featured relational database management system (RDBMS) that offers a variety of administrative tools to ease the burdens of database development, maintenance and administration. In this article, we'll cover six of the more frequently used tools: Enterprise Manager, Query Analyzer, SQL Profiler, Service Manager, Data Transformation Services and Books Online.

- **Enterprise Manager:** It is the main administrative console for SQL Server installations. It provides you with a graphical "birds-eye" view of all of the SQL Server installations on your network. You can perform high-level administrative functions that affect one or more servers, schedule common maintenance tasks or create and modify the structure of individual databases.
- **Query Analyzer:** It offers a quick and dirty method for performing queries against any of your SQL Server databases. It's a great way to quickly pull information out of a database in response to a user request, test queries before implementing them in other applications, create/modify stored procedures and execute administrative tasks.

- **SQL Profiler:** It provides a window into the inner workings of your database. You can monitor many different event types and observe database performance in real time. SQL Profiler allows you to capture and replay system "traces" that log various activities. It's a great tool for optimizing databases with performance issues or troubleshooting particular problems.
- **Service Manager:** It is used to control the MSSQL Server (the main SQL Server process), MSDTC (Microsoft Distributed Transaction Coordinator) and SQL Server Agent processes.

An icon for this service normally resides in the system tray of machines running SQL Server. You can use Service Manager to start, stop or pause any one of these services.

8. Functionalities provided by E-Commerce Portal are as follow:

- a) Provide the facility to the customer to modify their product and get the desired product.
- b) It tracks all the information of Products, Shipping, Sales etc.
- c) Manage the information of the Products.
- d) To increase efficiency of managing the Customer Products.
- e) It deals with monitoring the information and transaction of Sales.
- f) Manage the information of the Customer.

9. Features of the project:

- Product and component based.
- Robust database back-end.
- Easy and fast retrieval of information.
- Well-designed reports.
- Work become very speedy.

- Easy to update information.
- Highly secure.
- Simple status and resolution.

References

Website referred: -

- www.google.co.in
- www.w3schools.com
- www.php.net
- <http://msdn.microsoft.com/>
- <https://www.tanishq.co.in/>