**Project 7: Angus & Coote Online Jewellery Store Management System**

**About the Client**

Angus & Coote is Australia's industry leader in jewellery, watch and giftware specialty retailing.

Formed in Sydney in 1895, the Company has been a leading name in Australian jewellery ever since and has continued to enjoy a reputation for consistently high quality, value and service.

Angus & Coote offers customers a comprehensive range of stunning diamonds, coloured gems, gold and silver jewellery, watches, giftware and related products.

Ever since its earliest days, Angus & Coote has been a home for superb craftsmanship. Today, the tradition of craftsmanship continues, thanks to a wide range of suppliers from around the world.

The long-term success of Angus & Coote rests on our key values, including dedication to the customer, assurance of quality and value, uniqueness and innovation, excellence, leadership and responsibility. For you, this means ensuring you receive a piece you can be proud of for life.

Furthermore, you can rest assured that Angus & Coote will still be here for many years to come. If you need an alteration or repair, the Company is well placed to assist. Throughout its history, the Company has remained true to its founding principles, while evolving to reflect changing demands. When you purchase an item of jewellery from Angus & Coote, you can be confident you're taking part in an Australian tradition.

**Project Brief & Business Problem Specifications:**

Our client Angus & Coote wants to completely redesign their online presence with new tech implementation on both frontend and backend levels. The existing system need to redesign due to the following reasons:

**Higher Overall Traffic.** With more visitors coming to the website, client will have more chances to acquire new customers.

**Higher Conversion Rates**. An attractive website and storefront will draw in more visitors and encourage them to make a purchase.

**More Leads and Sales.** An e-commerce website redesign should optimize the shop to match the digital marketing strategies, pulling in more leads and closing more sales.

**Better Customer Retention.** The experience of shopping on a top-tier website will inspire many of the customers to return to the shop and make additional purchases.

The project should be a web-based application with 150 products store and extendable in future. The main goal of this project is to create a shopping cart, which allows customers to shop and purchase Jewelry products online. Moreover, the project should also be designed in such a way it lets managers manage the products information.  Customers can orders products, and they could be contacted to further process the orders.

**System Modules Requirements**

The application should consist of two main components:

* Admin
* User

**Admin Modules**

This module should provide administrator-related functionalities. The administrator could be able to manage the entire application and maintain the profiles of users and information on products.

**Dashboard:** In these sections, the admin could briefly view the total registered users, total products, status of orders, inquiry, and review.

**Categories:** In this section, the admin should be able to manage categories of products (add/update/delete).

**Sub-Categories:** In this section, the admin should manage subcategories of products (add/update/delete).

**Products:** In this section, admin should manage the products (add/update/delete).

**Pages:**  In this section, admin should manage the about us and contact us pages.

**Orders:** In this section, admin could view the jewellery order details and they have also the right to change order status according to current status.

**Reviews:** In this section, admin should view the reviews of products that are given by buyers and they have the right to approved the review or not.

**Inquiry:** In this section, admin could be able to view the inquiry which is sent by users.

**Reports:** In this section admin should view order details, order counts, and sales reports according to dates.

**Search Order:** In this section, admin should search particular order with the help of the order number.

**Reg Users:** In this section, the admin could view registered users.

**Subscriber:** In this section, admin should view subscriber mails.

Admin could also update his profile, change the password and recover the password.

**User Module**

1.Home: It is the welcome page for users who can view products.

2. Category: In this section, users can view products according to category.

3.Products: In this section, users can view the jewelry and order that jewelry after registering.

4.About Us: In this section, user can view about us of a jewelry shop.

5.Contact Us: In this section, user can view the contact us of a jewelry shop.

6.Cart: In this section, the user can add the jewelry which he/she want to order.

7.Wishlist: In this section, the user can add mobile to the wishlist.

8. My Profile: In this section, the user can view and change his/her profile.

9. My orders: In this section, users can view order history after login.

10. Setting: In this section, user can change his/her account password.

11. The user has also a facility to download his/her invoice and cancel orders if he/she wants to cancel.

Brief Information about the Homepage

On this page guest users (users who are not registered) could view the jewellery. Guest users can also sign up and the registered users can sign in. User can also track their order without login.

**User Modules (User Frontend):**

Developers need to research and discuss with the client to finalise the modules and requirements.

**UI Design**

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventually presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

**UI Design Requirements**

1. The system user should always be aware of what to do next.
2. The screen should be formatted so that various types of information, instructions and messages always appear in the same general display area.
3. Message, instructions or information should be displayed long enough to allow the system user to read them.
4. Use display attributes sparingly.
5. Default values for fields and answers to be entered by the user should be specified.
6. A user should not be allowed to proceed without correcting an error.
7. The system user should never get an operating system message or fatal error.

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

* + Security of data.
  + Ensure data accuracy's
  + Proper control of the higher officials.
  + Minimize manual data entry.
  + Minimum time needed for the various processing.
* Greater efficiency.
* Better service.
  + User friendliness and interactive.
  + Minimum time required.

**Functional Requirements:**

**Inventory Management**

Categorize items and save default settings for each category

Import & Export inventory

Replenish stock with P.O's and use the "weighted averaged cost"

Upload 5 high-res photos per item

Add custom fields (ie. color, size) and choose to display these fields in estimates/invoices

Add items into specific locations

Setup custom units of measure

Link items together into packages

**Barcode Scanning**

Using barcodes to keep track of inventory and documents:

Handheld barcode scanner

Scan and use existing product barcodes

Scan items into orders (invoices, estimates, and P.O's)

Generate barcodes for orders

Scan barcodes to lookup their information

Item Variations: Breakdown an inventory item by attributes, such as size, color, and location.

Account Management: Customers, Prospects, and Suppliers. Instantly searchable, organized with labels.

**Online Billing. Estimates and Invoices:**

* Automatically reduce available inventory quantities when items are invoiced
* Convert approved estimates into invoices in just one click
* Customizable with company logo, contact info, public notes
* Email estimates & invoices as PDF's
* Generate Packing Lists in one click
* Set estimates to automatically expire after a certain amount of days
* Log payments, return payments, mark invoices as dispatched

**Purchase Orders:**

Send orders to suppliers and replenish available stock.

Track Purchases. Know when new stock will arrive.

**Financial Reports:**

Detailed reporting includes Account Receivables, Net Revenue, Gross Revenue, Taxes Collected, Profit/Loss Totals, Cost Of New Inventory Purchases, Cost Of Additional Inventory Expenses, Total Inventory Valuation

**Refine Reports:**

Select a Specific Date-range for Financial Reports.

**Aged Receivables:**

Which Accounts have Outstanding Invoices and for how long and save them as a PDF for sharing with company’s accounting department.

**Customer Billing Statements:**

How much money does a customer owe in combined invoice totals?

Generate beautiful billing statements with aged balances and review the breakdown.

**User Permissions:**

System should be able to easily create new user accounts with any specific user permissions.

Enabling/disabling read-only access to specific areas:

Finely tune each user's permissions

Optional read-only access

Hide unit costs, keeping true profit margins a secret

Disabling access to a section hides it completely so users don't know what they're missing out on

**Other User Customizations**

Personalize experience using profile pictures

Low Inventory Notifications

**Non Functional Requirements**

There are a lot of software requirements specifications included in the non-functional requirements of the system, which contains various processes, namely Security, Performance, Maintainability, and Reliability.

**Security:**

* Patient Identification: The system needs the patient to recognize herself or himself using the phone.
* Logon ID: Any users who make use of the system need to hold a Logon ID and password.
* Modifications: Any modifications like insert, delete, update, etc. for the database can be synchronized quickly and executed only by the ward administrator.
* Front Desk Staff Rights: The staff at the front desk can view any data in the system, and add new patients record to the HMS but they don't have any rights to alter any data in it.
* Administrator rights: The administrator can view as well as alter any information in the system.
* Cybersecurity Implementation: Identify ethical risks in database design and implement the actions of mitigation.
* Cybersecurity Implementation: Provide evidence that you have implemented the data encryption and anonymization of data.
* Cybersecurity Implementation: Perform ‘Data Protection Impact assessment’ to help ensure compliance, facilitate a privacy by-design approach and identify better practice.
* Cybersecurity Implementation: Implement the secure methods for data encryption, data security and data breach to maintain the privacy of end users.

**Performance:**

* Response Time: The system provides acknowledgment in just one second once the 'patient's information is checked.
* Capacity: The system needs to support at least 1000 people at once.
* User-Interface: The user interface acknowledges within five seconds.
* Conformity: The system needs to ensure that the guidelines of the Microsoft accessibilities are followed.

**Maintainability:**

* Back-Up: The system offers efficiency for data backup.
* Errors: The system will track every mistake as well as keep a log of it.

**Reliability:**

* Availability: The system is available all the time.

Project should aim at Business process automation.

* + In computer system the person has to fill the various forms & number of copies of the forms should be easily generated at a time.
  + In computer system, it is not necessary to create the manifest but we can directly print it, which saves time.
  + To assist the staff in capturing the effort spent on their respective working areas.
  + To utilize resources in an efficient manner by increasing their productivity through automation.
* The system should generate types of information that can be used for various purposes.
* It satisfy the user requirement
* Be easy to understand by the user and operator
* Be easy to operate
* Have a good user interface
* Be expandable
* Delivered on schedule within the budget.

**Hardware Requirement: Should be recommended by the developers.**

**Software Requirement: Should be recommended by the developers.**