

# Benazir Bhutto Shaheed University

## Lyari, Karachi



### **CS-564 Software Verification & Validation**

#### **SRS Document**

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|----------------------|--|
| <b>Project Title</b> | <b>Royal Aurum: Web-Based Marketplace for Luxury Jewelry</b> |
| <b>Semester</b>      | <b>6<sup>th</sup></b>  |
| <b>Section</b>       | <b>A</b>   |
| <b>Instructor</b>    | <b>Miss Ambreen</b>  |

# **Royal Aurum** – Web-Based Luxury Jewelry Marketplace

## **1. Introduction**

### **1.1 Purpose**

The purpose of this document is to define the software requirements for **Royal Aurum**, a web-based platform designed to allow customers to browse, select, and purchase premium jewelry online.

### **1.2 Scope**

Royal Aurum provides an elegant and secure online shopping experience. The system enables customers to view jewelry products, add them to a shopping cart, and complete purchases via a secure payment gateway. The admin can manage products, monitor orders, and maintain the platform efficiently.

### **1.3 Intended Users**

- **Customers:** To browse and buy jewelry.
- **Admin:** To manage products, orders, and user information.

### **1.4 Technologies Used**

HTML, CSS, JavaScript, PHP, and MySQL.

## **2. Overall Description**

### **2.1 Product Perspective**

Royal Aurum is an independent web application consisting of a front-end interface for customers and an admin panel for management. It connects to a MySQL database to store product, user, and order data.

### **2.2 Product Functions**

- Product browsing and searching
- Shopping cart management
- Secure checkout and payment
- Order confirmation
- Admin product and order management

### **2.3 Constraints**

- Internet connection required
- Browser compatibility (Chrome, Firefox, Edge)
- Secure handling of payment data

### **2.4 Assumptions and Dependencies**

- The server supports PHP and MySQL.
- A valid payment gateway API is integrated.
- Users have access to modern web browsers.

### **3. Functional Requirements**

**FR1 – View Products:** Users can browse, view details, and search jewelry items by category or keyword.

**FR2 – Add to Cart:** Users can add items to their shopping cart, view selected products, and remove them as needed.

**FR3 – Checkout & Payment:** Users can proceed to checkout and make payments through a secure payment gateway.

**FR4 – Order Management:** The admin can view, update, or delete customer orders as required.

**FR5 – Product Management:** The admin can add, edit, or remove jewelry products from the catalog.

**FR6 – User Management:** The admin can view and manage registered user accounts and information.

### **4. Non-Functional Requirements**

**Performance:** The system should load all main pages within 3 seconds to ensure a smooth user experience.

**Security:** All user data and payment transactions must be securely encrypted.

**Usability:** The interface should be elegant, simple to navigate, and responsive on all devices.

**Reliability:** The platform should maintain 99% uptime during normal operation.

**Scalability:** The system should be capable of handling more users and products as the business grows.

## 5. System Design Overview

- **Front-End:** HTML, CSS, JavaScript
- **Back-End:** PHP
- **Database:** MySQL
- **Architecture:** Client–Server model

## 6. Future Enhancements

- Integration of vendor/seller module
- Advanced product filters and reviews
- Mobile application version

## 7. Conclusion

Royal Aurum is designed to deliver a premium online shopping experience for jewelry lovers through a secure, efficient, and user-friendly web platform.