TUTORIAL 03

1. Scope Statements
2. Overall Objectives

* O1: Create a user-friendly interface for the library's online services.
* O2: Ensure the system is scalable and can accommodate future growth in library resources.
* O3: Provide comprehensive training for library staff to manage and utilize the new system effectively.
* O4: Deliver the complete Library Management System on schedule, ensuring all functionalities are operational.

1. Justification
   * + Expertise in Software Development: ABC Development Company has a proven track record in developing complex software systems tailored to educational institutions.
     + Customer Benefits:
       - Enhanced User Experience: The new system will simplify access to library resources for students and staff, promoting greater utilization of library services.
       - Operational Efficiency: Automating library processes will reduce manual workload for staff, allowing them to focus on providing better service to users.
       - Data Security: The central database will ensure that all library data is securely managed and easily retrievable, safeguarding against data loss and unauthorized access.
2. Deliverables

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| --- | --- | --- | --- |
| No | Deliverables | Detail Characteristics | Date of Delivery |
| 1 | *Sub-system 1*: Building a Central Database for the Library | - A robust central database that stores all library data (user information, book inventories, transaction records). - Ensures data integrity, security, and easy access for library staff and users. - Supports scalability for future growth in library resources. | December 15, 2023 |
| 2 | *Sub-system 2*: Develop a Search and Reserve Service for all university students and staff | - A user-friendly interface for students and staff to search for library resources. - Enables online reservations of books with real-time availability checks. - Mobile-friendly design for access on various devices. | January 30, 2024 |
| 3 | *Sub-system 3*: Develop a Book Management Sub-system | - Comprehensive management of book inventory including cataloging, tracking borrowed items, and managing returns. - Integration with the central database for real-time updates. - User access controls for library staff to manage the system efficiently. | February 28, 2024 |

1. Work Breakdown Structure
   1. Library Management System
      1. Central Database
         1. Design
         2. Implementation
         3. Data migration
         4. Testing
      2. Search and Reserve Service
         1. User interface design
         2. Search functionality
         3. Reservation system
         4. User authentication
      3. Book Management Subsystem
         1. Catalog management
         2. Inventory tracking
         3. Borrowing/returning processes
         4. Reporting, and integration testing
      4. Project Management
         1. Planning & Scheduling
         2. Resource allocation
         3. Risk management
         4. Stakeholder communication
      5. Deployment and Training
         1. System development
         2. User training
         3. Documentation
         4. On-going support