

E-Service Project

• Abstract	[1]
• Overview	[1]
• Functional Requirement	[2]
• Non-Functional Requirement	[2]
• Structure	[4]

ABSTRACT

Our **e-Service Website** simplifies the process of connecting customers with service providers through an efficient and user-friendly platform. The website operates by allowing users to register and create accounts, after which they can log in to access various services. Customers can search for specific services from a categorized list, view detailed information, and place service requests or orders directly through the platform.

In addition, the website is designed to handle multiple service categories, making it adaptable for various industries such as home services, professional consultations, maintenance, and more. By streamlining the entire process—from searching and ordering services to tracking and managing them—it reduces the time and effort for both customers and service providers.

The website's intuitive interface, scalability, and structured approach ensure it remains reliable and future-ready to accommodate growing demands and additional features as needed. This makes it an ideal solution for managing e-services effectively in a digital-first world.

Overview

Engaged with this web based e service. Everything integrated into one place for the management and dispatch of service providers, clients and administrators. Customers are brought into the equation making service provision void of bursting into fragmentation providing a unified approach to make service provision modernized, improve performance, increase the availability of offered services, and enhance the quality of service delivery.

Goal of e-Service Management System:

The e-Service Management System provides an intuitive and uncomplicated interface that enables:

- Customers to search, order, and monitor services at their own convenience.
- Service providers to organize their products/sw services together with customer orders.

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- Administrators in this case perform a supervisory role over the ecosystem where users, services, and transactions are. Control's features are offered

Functional Requirements

1. User Registration and Authentication

User Registration:

A user should be able to register with their username, password, and email.

User information should be efficiently protected in the Store user details.

User Login:

Integrate a login feature. This feature should allow the user to authorize themselves by entering their username and password.

Undertake user session management to manage users who are logged in.

2. Service Booking

Service Request:

Users must be able to schedule the session with available services by entering the name of the service and the date when it should be reserved.

Add the sessions to the data base against the logged in user in the data base.

3. Session Management

Session Handling:

Use of Http sessions for users who have logged in the system.

Let the users log out so ending their session.

Non Functional Requirements

1. Security

Data Encryption:

Pass on the sensitive particulars to be encrypted (for example passwords) to the data base only after encryption.

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Provide usage of WWW secure through HTTPS.

Authentication and Authorization:

Integrate a mechanism to stressed restricted access to some operations based on certain roles of users.

2. Performance

Scalability:

Conduct systematic planning allowing the system to serve a number of users and a number of bookings at the same time.

Make recommendations for improving database queries and optimization of indexing.

Response Time:

Make sure that actions taken by the user of the system such as registration, login, or making a booking are completed within seconds.

Technologies Utilized:

- **Frontend:** JSP, HTML, CSS, JavaScript (with optional frameworks for styling).
- **Backend:** Core Java, Servlets.
- **Database:** MySQL, integrated using JDBC.
- **Server:** Apache Tomcat for hosting the application.

E-Service Project

E-Service-Project Structure

```
|
|
|— src
|   |— main
|       |— java
|           |— com
|               |— eservice
|                   |— controller
|                       |— RegisterController.java
|                       |— LoginController.java
|                       |— BookServiceController.java
|                       |— LogoutController.java
|                   |— model
|                       |— User.java
|                       |— Booking.java
|                       |— UserDAO.java
|                       |— BookingDAO.java
|                   |— util
|                       |— DatabaseUtil.java
|               |— resources
|                   |— database-config.xml
|               |— webapp
|                   |— WEB-INF
|                       |— web.xml
```

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```
| | └─ views
| |   └─ register.jsp
| |   └─ login.jsp
| |   └─ services.jsp
| |   └─ booking.jsp
| |   └─ logout.jsp
| | └─ css
| |   └─ style.css (optional, if using CSS)
| └─ index.jsp
```