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Web technology final project

Project Documentation: Veterinary Appointment Booking System

Introduction

In the realm of pet care, the Veterinary Appointment Booking System aims to streamline the process of scheduling appointments with veterinarians. This web-based platform facilitates pet owners in securing appointments for their animals with ease. Utilizing web technologies for both frontend and backend, the project ensures a seamless experience for users seeking veterinary services.

Project Requirements;

1. User Registration

- Allows pet owners to securely create an account on the system.
- During registration, users establish unique login credentials.
- Confirmation of account creation is sent upon successful registration and email verification.
- Users can subsequently log in using their registered email and password.

2. Browsing Veterinary Services

- Enables users to search for and explore available veterinary services on the home page.

3. Veterinarian Details

- Displays detailed information about work environment when a user clicks on a specific clinic or veterinarian.
- Information includes professional details, services offered, and availability.

4. Appointment Booking Form

- Presents a reservation form for users to schedule appointments with veterinarians.

- Form includes fields such as:
  - Pet Owner's Name
  - Pet's Name
  - Email for communication
  - Preferred Date and Time

Project Implementation

User Journey:

1. Homepage:
   - Users are directed to the homepage upon accessing the website.
   - Overview of veterinary services, featured services, and relevant information is displayed.

2. Navigation to Registration:
   - Users decide to book appointments and register on the site.
   - "Register" link/button in the navigation menu redirects users to the registration page.

3. Registration:
   - Registration page displays a form for users to enter personal information, including email and a desired password.
   - Validation ensures correctness of form inputs.
   - Successful registration redirects users to the login page.

4. Navigation to Login:
   - After successful registration, users are automatically redirected to the login page.

5. Login:
   - Users enter registered email and password.
   - System validates login credentials and authenticates the user.
   - Successful login redirects users to the appointment booking page.

6. Appointment Booking:

- System directs users to the appointment booking form.
- Users provide details such as pet owner's name, pet's name, email, and preferred date/time.
- Form validation ensures data integrity and completeness.

Project Constraints

1. Performance and Scalability:

- Ensuring the system can handle increased user demand without compromising performance.

2. Data Backup and Recovery:

- Implementing robust backup and recovery processes to prevent data loss in unforeseen events.

3. User Experience:

- Balancing functionality, aesthetics, and ease of use within resource constraints to deliver an optimal user experience.

a. Expected Outcomes

- Responsive Web Design
- Increased Accessibility and Reach
- Streamlined Appointment Booking Process
- Performance Optimization

Technologies Used:

- Spring Boot - Thymeleaf
- Spring MVC - Spring Data JPA

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