**PAWPOINT CLINIC USING SPRING BOOT**

**COURSE: JAVA Full Stack Development**

1. **Introduction**

The Pawpoint Clinic is a comprehensive full-stack web application developed to streamline the operations of veterinary clinics. This application is designed to manage the daily activities of a clinic by maintaining structured and secure records of pet owners, pets, appointments, and veterinarians. With an intuitive interface and modular architecture, the system enables seamless collaboration among clinic staff.

1. **Core Functionalities**

* Owner Management: Create and manage pet owner profiles.
* Pet Registration: Register new pets and associate them with their respective owners.
* Visit Scheduling: Book and track veterinary appointments and consultations.
* Veterinarian Management: Maintain profiles of vets including specialties, availability, and visit logs.
* Interconnected Modules: All features are integrated to ensure a cohesive and user-friendly experience.

**3. Technical Overview**

* Backend:
* Framework: Spring Boot
* Technologies: Spring MVC (for handling requests), Spring Data JPA (for ORM and datapersistence)
* Database: Relational Database (likely MySQL or PostgreSQL)
* Frontend:
* Implemented with Angular, offering a responsive and dynamic user experience.
* Architecture:
* Emphasizes modularity and maintainability.
* Structured around best practices for enterprise-grade web applications.

**4. Security and Role Management**

* Integrated Spring Security for robust authentication and authorization.
* Role-based access control ensures sensitive data is accessible only to appropriate users:
* Admin: Full access to system configurations and user management.
* Veterinarian: Access to pet medical records and appointment details.
* Receptionist: Handles bookings, registrations, and basic queries.

**5. Future Enhancements**

The project is built with scalability in mind, providing a strong foundation for future updates such as:

* AI-based symptom checker
* Smart appointment scheduling
* In-app chatbot for handling pet care queries
* Personalized pet health tracking dashboards

**6. Conclusion**

Pawpoint Clinic is not just a digital management tool but a scalable and secure platform for modern veterinary practices. Built on a robust tech stack and designed for real-world usability, it sets a high standard for full-stack medical management systems.

**Members of the Project:**

Sameena Shaik – 231FA04896

Hemanjali Kodali – 231FA04833

Monika Thota – 231FA04827

Varshitha Geddam – 231FA04826

V. Ramya – 231FA04340.