**Sprint Plan: Veterinary Clinic Web Application (MERN Stack)**

**Project:** Veterinary Clinic Management System  
**Methodology:** Agile Scrum  
**Sprint Duration:** 2 weeks per sprint

**Sprint 1: Core Authentication & Initial Setup**

**Goals:**

* Set up project environment
* Implement user registration and login
* Design basic homepage UI (guest view)

**User Stories:**

* US01 – User Registration
* US02 – User Login
* US03 – Logout
* US18 – Homepage Guest View

**Tasks:**

* Setup GitHub repo and CI/CD pipeline
* Initialize MongoDB, Express server, React app
* Create UI sketches and Figma mockups
* Build responsive login/register forms
* JWT-based authentication
* Create homepage with clinic info

**Deliverables:**

* Working login/registration flow
* Basic guest homepage
* Figma prototype shared

**Sprint 2: Pet Profiles & Booking System**

**Goals:**

* Enable users to manage pets
* Allow booking appointments
* Implement calendar integration

**User Stories:**

* US05 – Manage Pet Profiles
* US06 – Book Appointments
* US07 – Cancel Appointments

**Tasks:**

* CRUD operations for pet profiles
* Create appointment booking form
* Integrate calendar/availability system
* Backend APIs for pet and appointment management
* UI validation and responsiveness

**Deliverables:**

* Working pet profile page
* Appointment system UI + backend

**Sprint 3: Vet & Admin Dashboards**

**Goals:**

* Vet appointment view and notes
* Admin user and service management

**User Stories:**

* US08 – Vet View Appointments
* US09 – Vet Notes and Completion
* US10 – Admin Manage Users
* US11 – Admin Manage Services

**Tasks:**

* Role-based dashboard setup
* Build vet dashboard UI
* Admin control panel with CRUD operations
* Backend integration for roles, services

**Deliverables:**

* Functional dashboards
* Basic role-based routing

**Sprint 4: Enhancements & Notifications**

**Goals:**

* Reset password, notifications, contact form

**User Stories:**

* US04 – Password Reset
* US13 – Contact Form
* US15 – Email Confirmations
* US19 – Edit User Profile

**Tasks:**

* Forgot password flow with secure email token
* Contact form UI + backend
* Email service setup (e.g., NodeMailer)
* Profile editing page and API

**Deliverables:**

* Notifications and contact functional
* Improved user experience

**Sprint 5: Analytics, CMS, Final Testing**

**Goals:**

* Admin statistics, downloadable reports, final QA

**User Stories:**

* US14 – Admin Analytics
* US17 – PDF Visit Reports
* US20 – CMS for Homepage
* US16 – Vet Visit History

**Tasks:**

* Graphs with charts library (e.g., Chart.js)
* PDF report generation (e.g., jsPDF)
* Admin content management UI
* Final bug fixes and testing

**Deliverables:**

* Feature-complete system
* Final demo and user documentation