# Veterinary Clinic – Preventive Care: Vaccination, Deworming, Tick/Flea

Covers schedule generation, reminders, event capture, overdue handling, and visit linkage. Initial spec – to be refined later.

## 1) Scope

- Preventive types: Vaccination, Deworming, Tick/Flea.  
- Each type supports: schedule generation, reminders, event capture, overdue handling.  
- Events auto-link to the pet’s visit for the day when captured.

## 2) Data Model (Per Pet)

- preventive\_templates (seeded rules: species/product/age logic)  
- preventive\_plans (pet-level plan snapshots)  
 • pet\_id, type (vaccine/deworm/tickflea), status (active/paused), created\_at  
- preventive\_items (per due item)  
 • plan\_id, type, subtype/product, due\_date, window\_start, window\_end, status, reason, notes, reminder\_state, last\_reminder\_at, visit\_id  
- preventive\_events (completion records)  
 • item\_id, pet\_id, date\_given, visit\_id, captured\_by, docs[], dose\_ml, route, site, manufacturer, batch, expiry

## 3) Vaccination (Example Rules)

- Canine core: Puppy series 6–8w, 10–12w, 14–16w; booster at 12m, annual thereafter.  
- Optional: Anti-rabies per local law.  
- Feline core: FVRCP series + booster + annual.  
- Custom: Add products/intervals per clinic policy.

Schedule generation:  
- Onboarding: if DOB/age known, generate plan.  
- Unknown history: admin can mark and start series.  
- After event completion: auto-create next due per template.

## 4) Completion Capture

- Android upload: vaccine sticker/certificate photo → quick picker for vaccine.  
- POS item mapping: auto-complete due item.  
- Store lot/batch/expiry if available.  
- Attach sticker photo with agreed filename convention.

## 5) Windows & Overdue

- window\_start = due\_date - grace\_before  
- window\_end = due\_date + grace\_after  
- Past window\_end without event → overdue.  
- Completing overdue item: next due from actual date given.

## 6) Deworming

- Puppy/kitten: every 2w until 12w, monthly until 6m.  
- Adult: every 3m (or per clinic preference).  
- POS mapping or Android upload completes due item.

## 7) Tick/Flea

- Monthly or 3-month products.  
- Rolling items created per duration.  
- Completion via POS scan or Android upload.

## 8) Reminders

- Each preventive\_item manages reminder\_state.  
- Schedule: T-7, T-1, T+3 (overdue), T+14 (escalation).  
- Snooze pushes due\_date; Skip requires reason.

## 9) UI / Workflow

Patient dashboard widget:  
- Cards for each type with next due date, overdue badge.  
- Buttons: Record Event, View Schedule, Print Due Sheet.  
  
Record Event modal:  
- Picker from due items first.  
- Date given (default today).  
- Attach photo(s).  
- Product details (batch, expiry, etc.).  
- Save → mark done, create next due.

## 10) Android App

- After scanning Unique ID:  
 • Upload Vaccine Sticker / Deworming / Tick-Flea.  
 • Scan medicine barcode for POS link.  
- On upload → complete due item or create ad-hoc event.

## 11) Edge Cases & Policies

- Multiple schedules active → handle independently.  
- Product changed → allowed; next due from template or product duration.  
- History unknown → start series now option.  
- Missed dose: template defines restart/continue logic.

## 12) Minimal Fields by Type

Vaccination: date\_given, vaccine\_name/product, dose\_ml, route, site, manufacturer, batch\_no, expiry, docs[], visit\_id.  
Deworming: date\_given, product, dose, weight(optional), docs[], visit\_id.  
Tick/Flea: date\_given, product, dose/form, duration\_days, docs[], visit\_id.

## 13) Visit Linkage

- Any event captured fetch-or-creates today’s visit for pet.  
- preventive\_events.visit\_id = today\_visit.id.  
- Files saved with confirmed filename scheme and current v####.