

Breeding Feature Scenarios

Feature: Cow Breeding Management

Scenario: Monitor First Heat Detection for Heifer

Given the cow is a heifer

And weight is greater than or equal to 350 kg or age is at least 12 months

When the system checks eligibility

Then create a task "Monitor for First Heat Detection" for morning and evening

And allow user to record the heat detection date

Scenario: Monitor Second Heat Detection

Given the 1st heat has already been detected

When 18 days have passed

Then create a task "Monitor for Second Heat Detection"

And contact AI person for an appointment between Day 18–21

And allow recording of the 2nd heat detection date

Scenario: AI Appointment After Heat Detection

Given the 2nd heat has been detected

Then create a high priority task "Request AI between 10–14 hours after heat detection"

And record uterus health assessment and medical notes

And record AI details: Sire Name, Sire Breed, Administered By, Date, Straw Serial Number

And allow straw photo upload

Scenario: Check Breeding Readiness After Calving

Given the cow's last calving was at least 40 days ago

Then start monitoring for breeding readiness (heat signs)

Scenario: Monitor for Next Breeding Attempt

Given the cow is not pregnant after AI

When 2 to 7 days have passed

Then monitor for heat signs again

And repeat the AI process if heat is detected

Scenario: Schedule Pregnancy Check

Given 35 days have passed since last AI

Then schedule a pregnancy check with vet

If cow is pregnant

Then no further action

Else

Monitor for heat signs in next 2–7 days

Scenario: Change AI Person After 3 Failed Inseminations

Given the cow is not pregnant after 3 AIs

Then recommend changing the AI person

And log feedback and notes

Scenario: Recommend Cull or Bull Use After Failed Breeding

Given cow is not pregnant after 3 AIs and bull attempt failed

Then suggest culling or introducing a bull for natural breeding

Scenario: Auto Lookup for Straw Serial Number

Given user enters a straw serial number

Then fetch and display sire name, breed, and quality from the database

Scenario: Notifications & Task Scheduling

When a breeding event is recorded

Then automatically schedule:

- | Task |
- | Heat detection follow-up |
- | Pregnancy check |
- | AI retry window |
- | Alert to contact AI or vet |