**Survey Questions**

**Section 1: Personal Information**

1. **What is your age?**
   * Under 25
   * 25-34
   * 35-44
   * 45-54
   * 55-64
   * 65 and above
2. **What is your gender?**
   * Male
   * Female
   * Prefer not to say
3. **What is your highest level of education?**
   * High school or equivalent
   * Some college
   * Associate degree
   * Bachelor's degree
   * Master's degree
   * Doctorate
4. **How many years have you been involved in dairy farming?**
   * Less than 1 year
   * 1-5 years
   * 6-10 years
   * 11-20 years
   * More than 20 years

**Section 2: Current Practices and Technology Use**

1. **Do you currently use any AI-based technology for mastitis prevention?**
   * Yes
   * No
2. **How often do you use AI-based technology in your daily farming operations?**
   * Never
   * Rarely
   * Sometimes
   * Often
   * Always

**Section 3: Trust in AI and XAI**

1. **How much do you trust AI-based technologies for mastitis prevention?**
   * Not at all
   * Slightly
   * Moderately
   * Very
   * Completely
2. **How important is it for you to understand how AI-based decisions are made?**
   * Not important
   * Slightly important
   * Moderately important
   * Very important
   * Extremely important
3. **How much do you trust the explanations provided by the XAI system (second UI)?**
   * Not at all
   * Slightly
   * Moderately
   * Very
   * Completely

**Section 4: Understanding and Usefulness of XAI**

1. **How easy is it to understand the explanations provided by the XAI system?**
   * Very difficult
   * Difficult
   * Neutral
   * Easy
   * Very easy
2. **How helpful are the individual animal explanations in making informed decisions about mastitis detection?**
   * Not helpful at all
   * Slightly helpful
   * Moderately helpful
   * Very helpful
   * Extremely helpful
3. **Do you think that your overall understanding of mastitis detection based on XAI system ( Second UI) with respect to classic system( first UI) has increased?**
   * Strongly disagree
   * Disagree
   * Neutral
   * Agree
   * Strongly agree

**Section 5: Acceptability and Adoption**

1. **Would you recommend the XAI-based mastitis detection system ( Second page) to other farmers?**
   * Definitely not
   * Probably not
   * Not sure
   * Probably yes
   * Definitely yes
2. **How likely are you to continue using XAI-based mastitis detection system ( Second UI) in the future?**
   * Very unlikely
   * Unlikely
   * Neutral
   * Likely
   * Very likely