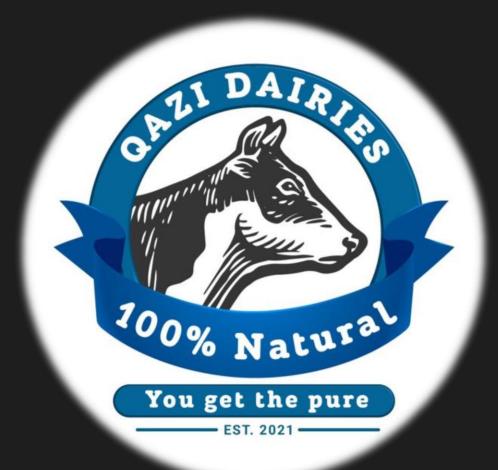
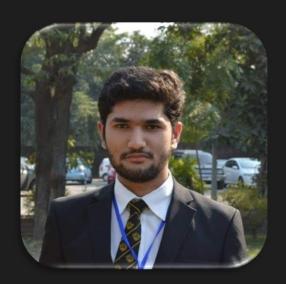
# P04: Dairy Farm Management System



## Our Team



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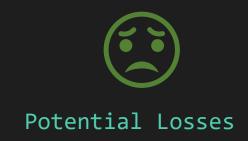


Saad Qadeer 2022-10-0209

# Outline











## Project Overview

 In attempts to modernize the dairy industry in Pakistan, which is one of the greatest producers and consumers of milk and other dairy products in the region, our proposed and developed system will present a solution to better manage the dairy farms and optimize sales and help in better record keeping.

#### Key Features

- Multi Tenant System: Multiple Diary Farm Owners will be able to set up their accounts
- Easy Record Keeping
- Door to Door Service via Online channel for customers
- Easy Management
- Greater outreach for farm owners
- Sales Optimizations
- Easy Logistical Management

# Security Threats and Risks

• A02:2021 - Cryptographic Failures

A03:2021 – Injection Attacks

• A07:2021 - Identification and Authentication Failures

### Potential Losses

- Injection
  - Loss of Data
- Cryptographic Failures
  - Loss of Sensitive Data leading to Loss of Business and Bad reputation

- Identification and Authentication Failures
  - Loss of Integrity

#### Controls

- Input Validation to deal with Injection Attacks
- Data Classification, Data Encryption to deal with Cryptography failures
- Multi Factor Authentication and User Roles to deal with Identification and Authentication Failures

The mentioned controls are preventive/protective in nature.

#### Tools Selection

#### Static and Dynamic Security Scanning

Static Application Security Testing (SAST)



- White Box Testing
- We have complete information about the system
- Examine Source Code (Static) to detect and report weaknesses
- Dynamic Application Security Testing (DAST)



- Black Box Testing
- Examine Application in Running State
- run on operating code to detect issues with
  - Interfaces
  - Requests
  - Responses

# 1 exit('Thank you!')