

**CS 491 (A)**

**Prototype Requirements**

**P04: Dairy Farm Management System**

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# Introduction

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.

Furthermore, multiple dairy farm owners will have the opportunity to set up their accounts on our management system, as we aim to develop a multi-tenant software, which will aid them in getting more customers and for the better management and record keeping of their farms. The system will allow the customer to keep track of daily milk production, sales, expenses and maintenance. Moreover, the system will also provide an interface for the customers of the dairy farm to check their delivery and monthly invoice.

Potential users of our management system include dairy farm owners (who wish to digitize their records and keep an updated track of their farms) and the customers who wish to order dairy products, be it for domestic or commercial use.

The main purpose of this product will be to provide multiple tenants a way to see various trends in their milk production, expenses and income streams and to make better decisions for the future.

# Instructions

* Select a subset of system requirements and implement them. The end result of the prototype phase must be a working system with the selected set of requirements implemented completely. No mock-up screens will be accepted.
* Don’t select simple requirements such as Login/Logout for prototype phase, you can implement them later.
* Select the set of requirements keeping in mind that you have a total of three weeks for prototype development. I would ask you to add more requirements if I think that you can do more in the given duration.
* The prototype must be built using the tools and technologies which you have selected for your system development.
* By the end of the prototype development phase,
  1. You should have learnt development tools and technologies.
  2. You should have a clear idea of the detailed technical architecture of your system. After the prototype phase, you will be required to define detailed technical architecture of your system.
* **Prototype Submission**
  1. Properly tested **working prototype** deployed on an online hosting platform.
  2. **Code** with proper comments uploaded in “prototype” folder of your project’s Github repository.
  3. **3-4 minutes video** that explains the functionality of your prototype—to be uploaded in “prototype” folder of your project’s Github repository.

# List of Requirements

|  |  |
| --- | --- |
| **Requirements** | |
| **Sr#** | **Requirement** |
| 1 | The tenant admin should be able to register his dairy farm. |
| 2 | The tenant admin should be able to login into this dairy account. |
| 3 | The tenant admin should be able to edit his username in profile settings |
| 4 | The tenant admin should be able to add animals into the database |

**Note:**

**Sample login Credentials**

**[-] Email:** email@gmail.com

**[-] Password:** 123

**[1]** For adding animals feature, please be sure to add the picture of the animal for the animal to be added to the data base

A screenshot of a computer

Description automatically generated

**[2]** For analytics to be displayed on the dashboard, milking record of the animals need to be added first, for morning and evening production

Graphical user interface, text, application, email

Description automatically generated

**[3]** Below is an attached snippet of the dashboard displaying the analytics.

Graphical user interface

Description automatically generated with medium confidence

# Where to Access the Prototype

**[\*]** Deployed Link Version 1.1: <https://dfmsv1.herokuapp.com/>

Deployed Link: [Dairy Management System (dfmgmtsystem.herokuapp.com)](http://dfmgmtsystem.herokuapp.com/)

# Prototype Flow Video

Drive Link to Video: <https://drive.google.com/drive/folders/1Uf2IL3_rTxqwsym-rUx0Gw97JRk0FfuG?usp=sharing>

# Review checklist

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| **Section** **Title** | **Reviewer Name(s)** |
| Introduction | Khawaja Junaid, Furqan Athar |
| List of Requirements | Abdullah Saleem, Saad Qadeer |