

**CS 491 (A)**

**Prototype Requirements**

**P04: Dairy Farm Management System**

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| --- | --- |
| **Student ID** | **Name** |
| **22100125** | **Abdullah Saleem** |
| **22100070** | **Furqan Athar** |
| **22100072** | **Khawaja Junaid** |
| **22100209** | **Saad Qadeer** |

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| --- | --- | --- |
| **Content** | **Totals** | **Obtained** |
| Requirements completed | 30 | 30 |
| Demonstration/deployment | 25 | 25 |
| Code Quality (Review checklist) | 15 | 10 |
| Video | 20 | 20 |
| Quality of sample data in the database | 10 | 10 |
| Who did what |  |  |
| Review checklist |  |  |
| Overall formatting/template |  |  |
| Late submission penalty | -20 | -15 |
| **Total** | **100** | **80** |
| Review |  |  |
| **Grand Total** |  |  |

1. ~~Unable to add an animal. See below the image that shows an error.~~
2. ~~The dashboard must provide some information and access to functionality.~~
3. ~~No daily production and graph added. This was discussed in the last meeting. The current functionality is very small in size.~~
4. ~~Insert sample data such as animal data so that the reviewer can see how the data is being presented.~~
5. ~~Missing meaningful comments in the code~~

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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.

# 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 |
| 5 | The tenant admin should be able to update password in the settings menu |
| 6 | The tenant admin should be able to add milk records of different animals into the data base. The milk records are added separately for morning and the evening production for a particular day. |
| 7 | The tenant admin’s dashboard displays the analytics of milk production for a specified period of time. |
| 8 | Front end for Filtering results is complete. |

**[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

# Where to Access the Prototype

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

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

# Prototype Flow Video

**[\*] Drive Link to Video Version 1.1:**  <https://drive.google.com/drive/folders/1k1rIt-NmKr2CFb0a_bEcsQGW5bx-Cw8H?usp=sharing>

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| Previous Versions |
| 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 |