

Appendix G - Product Backlog

ID	Priority	User Story	Completed	Use case
1	Critical	As a guest, I want to view the latest measurement of the temperature inside the barn, so that I can monitor the values of the environment in which the pigs live	TRUE	View data analysis
2	Critical	As a guest, I want to view the latest measurement of the CO2 levels inside the barn, so that I can decide to ventilate or not	TRUE	View data analysis
3	Critical	As a guest, I want to view the latest measurement of the humidity inside the barn, so that the food provided will not spoil	TRUE	View data analysis
4	Critical	As a guest, I want to view the latest measurement of decibels inside the barn, so that I can interpret the pigs' stress levels	TRUE	View data analysis
5	Critical	As an owner, I want to add accounts to the system, so that I can ensure only my employees log in and access the system's features	TRUE	Manage accounts
6	Critical	As a guest, I want to log into my account, so that I can gain access to the system's features	TRUE	Log in
7	Critical	As an employee, I want to view reports measuring the noise at the pigs' area, so that I know they have not been under stress	TRUE	View data analysis
8	Critical	As an employee, I want to view reports measuring the temperature in the pigs' area, so that I can be sure the pigs are in good condition during extreme temperatures	TRUE	View data analysis
9	Critical	As an employee, I want to view reports measuring the CO2 in the pigs' area, so that I make sure the pigs receive the right amount of oxygen that ensures a quality life	TRUE	View data analysis
10	Critical	As an employee, I want to view reports measuring the humidity in the pigs' area, so that I can be sure that the infectious diseases are avoided	TRUE	View data analysis
11	High	As an employee, I want to see the historical data regarding temperature because I am interested in data statistics	TRUE	View data analysis
12	High	As an employee, I want to see the historical data regarding CO2 because I am interested in data statistics	TRUE	View data analysis
13	High	As an employee, I want to see the historical data regarding sound because I am interested in data statistics	TRUE	View data analysis
14	High	As an employee, I want to see the historical data regarding humidity because I am interested in data statistics	TRUE	View data analysis
15	High	As an employee, I want to edit thresholds for CO2 levels, so that I can ensure the pigs' well-being	TRUE	Manage environment
16	High	As an employee, I want to edit thresholds for temperature, so that I can ensure the pigs' well-being	TRUE	Manage environment

17	High	As an employee, I want to edit thresholds for humidity, so that I can ensure the pigs' well-being	TRUE	Manage environment
18	High	As an employee, I want to edit thresholds for sound, so that I can ensure the pigs' well-being	TRUE	Manage environment
19	High	As an employee, I want to view a log of CO2 measurements that have exceeded a certain threshold, so that I can act accordingly	TRUE	Manage environment
20	High	As an employee, I want to view a log of humidity measurements that have exceeded a certain threshold, so that I can act accordingly	TRUE	Manage environment
21	High	As an employee, I want to view a log of sound measurements that have exceeded a certain threshold, so that I can act accordingly	TRUE	Manage environment
22	High	As an employee, I want to view a log of temperature measurements that have exceeded a certain threshold, so that I can act accordingly	TRUE	Control window
23	High	As an employee, I want the window to open when the temperature exceeds the upper threshold	TRUE	Control window
24	High	As an employee, I want the window to close when the temperature exceeds the lower threshold	TRUE	Manage environment
41	High	As an employee, I want to select an area as the main display area, so that I can view the data for the selected area	TRUE	Manage areas
42	High	As an owner, I want to add a new area to the farm, so that I can measure the data for the specific area of the barn	TRUE	Manage areas
45	High	As an employee, I want to view the current thresholds for temperature for a specific area, so that I can act accordingly	TRUE	Manage environment
46	High	As an employee, I want to view the current thresholds for humidity for a specific area, so that I can act accordingly	TRUE	Manage environment
47	High	As an employee, I want to view the current thresholds for CO2 for a specific area, so that I can act accordingly	TRUE	Manage environment
48	High	As an employee, I want to view the current thresholds for sound for a specific area, so that I can act accordingly	TRUE	Manage environment
26	Low	As an owner, I want to see a list of all the threshold sensor modifications and which employee made it, so that I have a better understanding of how my employees are working	TRUE	Manage environment
27	Low	As an employee, I want to filter the measurements of the temperature inside the barn, so that I can see an overview of the different temperatures in a specific day	TRUE	View data analysis

28	Low	As an employee, I want to filter the measurements of the CO2 inside the barn, so that I can see an overview of the different CO2 values in a specific day	TRUE	View data analysis
29	Low	As an employee, I want to filter the measurement of the humidity inside the barn, so that I can see an overview of the different humidity values in a specific day	TRUE	View data analysis
30	Low	As an employee, I want to filter the measurements of the sound inside the barn, so that I can see an overview of the different sound levels in a specific day	TRUE	View data analysis
31	Low	As an owner, I want to see a list of all accounts in the system, so that I have a better overview of my employees	TRUE	Manage accounts
32	Low	As an owner, I want to remove accounts from the system, so that I can limit who has access to the system's features	TRUE	Manage accounts
33	Low	As an employee, I want to log out of the system, so that I can keep my account secure	TRUE	*
34	Low	As an employee, I want to edit my account's details, so that I can keep them up-to-date	TRUE	Manage personal profile
43	Low	As an owner, I want to remove an area from the farm, so that the system represents the physical changes of the barn	TRUE	Manage areas
35	Low	As an employee, I want to view the details of a specific area of the farm, so that track the health of an area of the barn	TRUE	Manage areas
36	Low	As an owner, I want to edit the details of a specific area of the farm, so that the area details are up to date	TRUE	Manage areas
44	Low	As an employee, I want to view my personal account, so that I have a better overview of my personal details	TRUE	Manage personal profile
49	Low	As an employee, I want to create thresholds for temperature for a specific area, so that I can act accordingly	TRUE	Manage environment
50	Low	As an employee, I want to create thresholds for CO2 for a specific area, so that I can act accordingly	TRUE	Manage environment
51	Low	As an employee, I want to create thresholds for humidity for a specific area, so that I can act accordingly	TRUE	Manage environment
52	Low	As an employee, I want to create thresholds for sound for a specific area, so that I can act accordingly	TRUE	Manage environment
53	Low	As an employee, I want to be notified when a measurement exceeds the threshold, so I am always aware of unpleasant conditions	TRUE	Manage environment
54	Low	As an employee, I want to disable my notifications, so I am not disturbed by information I don't need	TRUE	Manage personal profile

55	Low	As an employee, I want to remove my local data storage, so I can keep my mobile data clean and organised	TRUE	Manage personal profile
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Table 1 - Product Backlog