

PROJECT NAME: PetPal

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REQ. #	FUNCTIONAL REQUIREMENTS
1	The system should utilize the donations of animal lovers to ensure that animals nutritional needs are met in accordance with their physiology.
2	The system must analyze animal movement patterns and detect signs of illness at an early stage.
3	Users must be able to report an animal's poor health condition through the system.
4	Administrators should be able to create and update animal profiles with name, photo, and health status.
5	The system must allow users to make adoption requests from animal profiles.
6	The system must detect when an RFID-tagged animal is near a revolving door and adjust the door speed or stop its movement to prevent injury.
7	The application should be able to list every animal detected by the nearest RFID detector to the user at the push of a button.
8	Users should be able to report injured or sick animals through the app.
9	The system should monitor the fill levels of smart food and water bowls in real time and send notification when the levels are low.
10	The system should be able to detect the locations of animals in real time and update a heatmap within the app accordingly.

REQ. #	NON-FUNCTIONAL REQUIREMENTS
1	The system must support at least 500,000 concurrent users.
2	System updates must be applied without causing any interruptions.
3	The system should be able to work in areas fitted with cameras.
4	The system should update animal locations every 10 seconds.
5	The system must be accessible 24/7.
6	The mobile app should have a user-friendly interface.
7	The app should support Android and IOS as well as web browsers.
8	The system must comply with any relevant laws.
9	User data must be encrypted to protect sensitive information.
10	The app should be optimized to support older or weaker devices.