

PROJECT NAME: PetPal

GROUP MEMBERS: William Ersan ALLAMAND, Damla İNCEBIYIK, Musafa Eren ŞAHİN, Burcu DUMANLI, Birce ERDOĞAN, Ece KABASAKAL, Kaan DÖNMEZ, Cavit KAYA

REQ. #	FUNCTIONAL REQUIREMENTS
1	The system should allow pet food brands, restaurants, and animal lovers to make food and money donations.
2	The system must analyze animal movement patterns and detect signs of illness at an early stage.
3	Administrators should be able to review, then accept or deny adoption requests
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 allow veterinarians to mark an animal as healed after responding to reports.
7	The application should be able to list every animal detected by the nearest RFID detector to the user at the push of the panic 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 should send notifications and update the map when 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 run on the specified hardware (servers).
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.