## THE DESIGN OF AN AUTOMATIC PET MONITORING SYSTEM

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## **ABSTRACT**

Automation, convenience, and environmentally friendly products are playing a very high demand in world now. Besides that, many families now have their own pet like cat, dog, fish, hamster, snake and etc at their living house. So they need arrange their time to take care their animal daily.

This project 'The Design of an Automatic Pet Monitoring System' is able to monitor user's pet automatically with consumes low power. The project's aim is to design and build a system that can help user to mentoring their pet daily and automatically. The system will connected to main water supply for feeding pet and cleaning pet's excretion purpose. And also able to detect the environment temperature and trigger the heater to control the temperature around the pet.

The automation of the system is achieved using the PIC16F877A microcontroller where this PIC get the signal from digital clock or temperature sensor will trigger the feeding tool, solenoid valve and heater. Digital clock is the component that controlling the time for feeding and cleaning process, the output of digital clock will send pulse to the PIC16F877A microcontroller for trigger purpose. LM35 is a precision integrated-circuit temperature sensor, this IC detect the environment temperature and send signal to the PIC16F877A microcontroller.