

ABSTRACT

Pet owners will undoubtedly be very helpful in caring for their pets becomes very simple and efficient. Everyone has an undeniably hectic work schedule. Their decision to adopt pets becomes a hobby that will help them relieve exhaustion and stress from their hectic daily lives. There is a sense of satisfaction for pet owners. In the middle of their busy lives, some people may seek the most recent innovations that will make it simpler for them to care for their pets at home. Besides, the density of employment means that many individuals are still struggling to provide food for their pets. Even though it is a simple task, many people feel overloaded. Due to the difficulties of remotely managing pet feeding when pet owners are busy, their pets might grow fat and even starve. Based on this difficulty, we can see that creating a feeding machine that can be operated remotely is critical so that the owner may feed the pet more easily and the cat's development can be maintained organically.

The purpose of this study is to find out how to arrange the pet feeding schedule using a Real Time Clock (RTC) and to find out how the automatic pet feeder works using an Arduino UNO-based servo motor buzzer. Then, discover how to design and develop an Arduino UNUNO-based automatic feed tool. This research uses the System Development Life Cycle (SDLC) methodology. SDLC is a logical process that systems analysts use while developing information systems. This covers requirements gathering, validation, training, and system ownership.

After several stages of testing on the tool, the results revealed that automated feeder can unload dry feed, set the time, and sound an alert if the feed is running short in response to orders sent via the Blynk platform. This technology can obviously be made and developed to assist people who love keeping pets. It can make it simpler for the owner to feed the cat at home, even when they are busy or away from home so that inappropriate feeding management will never happen again to pets.

keywords: Automatic cat feeding, Arduino mega 2560, HC-SR04 sensor-based, Internet of Things (IoT)