Overview of the System

Mobile Application

The mobile application serves as the user interface for BirdCall. A user speaks voice commands to the application which uses a local natural language processing library to translate the voice command to text. The application then sends the text command to the Drone Server.

Drone Server

The drone server lives on the Raspberry Pi mounted on the Drone. It recieves JSON encoded HTTP requests from the Mobile Application, parses the text and sends the command to the Drone using DroneKit-Python.

Drone

The Drone receives commands from the Drone Server and responds accordingly.

Use





