A PROJECT ON

URGENT CASH DRONE

Submitted in partial fulfillment of

the requirement for the award of

the degree of

Bachelor of Technology in Computer Science and Engineering

(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

Under The Supervision of
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CANDIDATE'S DECLARATION

I/We hereby certify that the work which is being presented in the project, entitled
" URGENT CASH DRONE: A cross-platform Application " in partial
fulfillment of the requirements for the award of the
BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING
submitted in the School of Computing Science and Engineering of Galgotias
University, Greater Noida, is an original work carried out during the period of
JULY-2021 to DECEMBER-2021, under the supervision of DR B. Shahjahan
, Department of Computer Science and Engineering of School of Computing
Science and Engineering , Galgotias University, Greater Noida

The matter presented in the project has not been submitted by me/us for the
award of any other degree of this or any other places.

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This is to certify that the above statement made by the candidates is correct
to the best of my knowledge.

Supervisor

(Dr B Shahjahan, Professor)

ABSTRACT

In today's fast-moving world, everything is changing for the better. New developments make this a reality. We have therefore decided to develop the URGENT CASH DRONE. The importance of automatic face detection and tracking system has increased as needed for video surveillance and new interactions. The URGENT CASH DRONE is a type of drone that carries a small ATM machine. It helps people by bringing cash to their doorstep with great security. UCD will be useful to people by bringing cash to remote areas or areas where ATM services are not available nearby. When it detects a signal in a related application, then locates it using GPS.Therefore, URGENT CASH DRONE plays an important role in facial recognition. In this paper, we aim to use real-time face detection and motion detection from high-definition video using Python, OpenCV and Django. Open libraries are used for face detection and head position tracking. The test result was compiled using the OpenCV computer database.

Table of Contents

INTRODUCTION

The URGENT CASH DRONE represents the URGENT CASH DRONE.

It is a type of drone that carries a small UCD machine.

It helps people by bringing cash to their doorstep

literature review

URGENT CASH DRONE will be helpful to people by bringing cash to remote areas or areas where UCD resources are not available nearby.

When it receives a signal from a related app, then it does

finds location using GPS.

Upon access to the user, the user will log in with his / her encryption followed by captcha and OTP code into the linked application and install OTP on the URGENT CASH DRONE system to ensure the process is continuous and bring cash to the person and returns.

In the event that someone tries to damage the device, then it starts ringing and brings a signal to the nearest police station and head office as well

There are many sub-stations that help the city

Drone to stabilize during inclement weather.

TOOLS USED TO WORK

Drone: -

• Shelter

• Brushless Motors

• Electronic Speed controls

• Finder

• Transmitter

• GPS Module

• Battery

• Camera

App: -

• The programming language is preferred to PYTHON or JAVA. Considering java or python because they are easy to pay for.

• An app studio for a better user interaction platform.

An easy-to-use app is always the first choice for users.

• General Functional Performance Function.

• User feedback forum.

Feedback helps make the app better every day.

PROBLEM FORMULATION

As teenagers begin to create day in and day out, they tend to explore every aspect of life to find entertainment, knowledge, perspective and a basis for entertainment.

So if in this age of life you will never be able to move slowly, and this generation can not cope with the slowness, having this feature in our mind Drone will provide a platform for people who want cash fast.

This URGENT CASH DRONE carries a small UCD machine.

It helps people by bringing cash to their doorstep

We use a strong password for your channel application. Using a combination of letters, numbers and special characters to create a strong password will prevent hackers; many will stop and follow the simple deer. This should

CODE FOR THE PROGRAM

```cpp
#include <iostream>

using namespace std;
class person
{
    char name;
    int password;
    int mob[4];
    public:
    void getinfo()
    {
        cout<<"enter your name";
        cin>>name;
        cout<<"create a password(must be an 4 digit number)";
    }
};
int main()
{
    int answer;
    cout<<"welcome to budget share"<<endl;
    cout<<"want to start new project"<<endl<<"input 1 for (yes) and  0 for (no)"<<endl;
    cin>>answer;
    if(answer==1)
    {
        cout<<"new project established enter your details"<<endl;
    person p1;
    p1.getinfo();
    }
    else if(answer==0)
    {
        cout<<"thanks for input wanted an old project to continue"<<endl;
    }

    return 0;

}
```
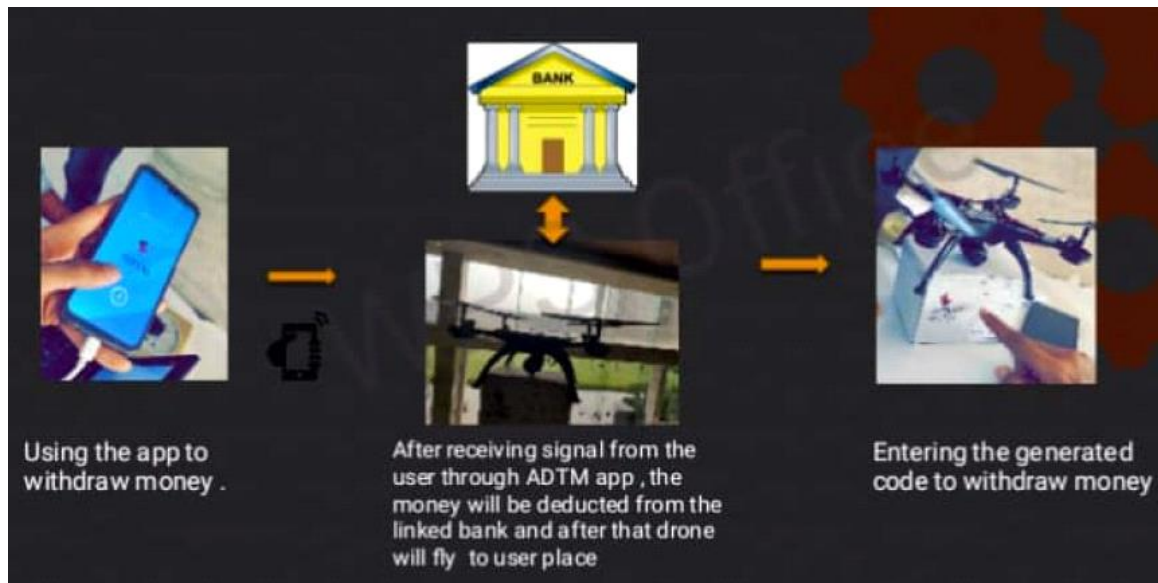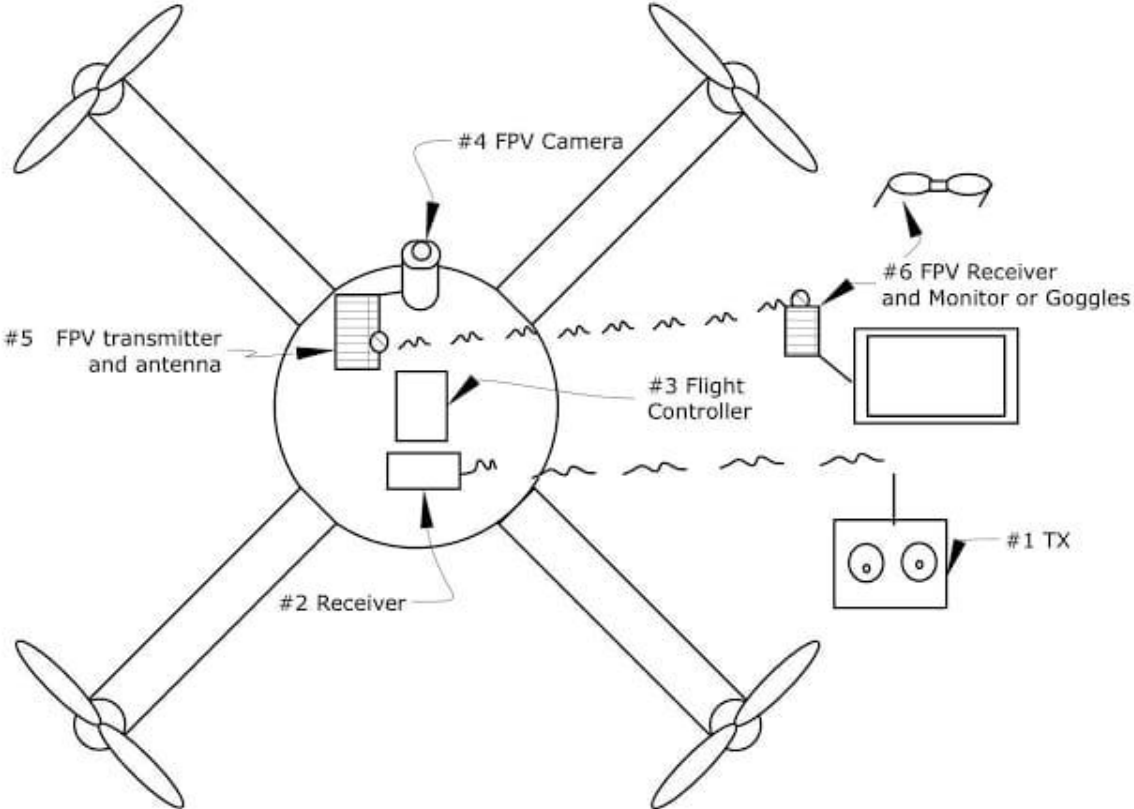
List of Figures

Quadcopter wiring diagram

#4 FPV Camera

#6 FPV Receiver
and Monitor or Goggles

#5 FPV transmitter
and antenna

#3 Flight
Controller

#2 Receiver

#1 TX

MERITS OF PROPOSED SYSTEM

- To provide easy availability of cash in rural areas.
- Less Time taking.
- Cost efficient.
- Reduce human efforts
- Easy to handle.
- They have a ability to hover and very stable.

Implementation and Description of Project Modules

- **Making Of URGENT CASH DRONE-**
- Construction Steps :

- Take a base frame.

- Assemble all the parts of the drone

- Assemble the drone with small UCD machine

- Add coding to small UCD machine to type generated code in the machine.

- Link the app with drone and bank Construct the safe box at several places and add adreno chip and code and link it to the control system

- Add the Al train model to the drone

- Pass it through VAPT.

- Add the backtrack option in the model

- **URGENT CASH DRONE App-**
  The URGENT CASH DRONE APP is the basic application to control structural function of the ADT Dens well as transactions Through it.

SECURITY AND FAQS

Ans : Hijacking of data or stealing of commodities stored in the drone is the main concern about this project. So, to overcome that we can provide channel embedded system to our device which will include source station and End User station with real time monitoring of device. And drone cam automatically upload recorded data in real-time for storage in the cloud.

Ques: Privacy while the transition of commodities from one end to another end.

Ans: The privacy issue is self-evident. Drones can carry a camera and can record images – and voice – from places inaccessible to a human eavesdropper. Variants used by law enforcement could link to facial recognition systems and silently monitor crowds, open-

air meetings and pedestrians. Militant activists could use them to map out establishments they wish to target.

Ques: Cyber security threat to the information of the drone.

Ans: We will install a Raspberry Pi system through which we can sniff the Wi-Fi signals or unauthentic signals which scammers may use to derail the path and to make the loss of resources.

Ques: Communication breach?

Ans: The communication between the drone and the ground station will be totally encrypted. This will help safeguard the communication between the drone and the ground station that communicates commands. Then, once you have a drone, the next step is to reset the default password.

Ques: If someone intervened in between to make harm to the drone and the commodity its carrying?

Ans: Yes, It's possible that the drone can be harmed by external factors such as eavesdroppers and several such attackers. We will be using trace back system which will monitor all the activities in route and which will be forecasted live on the ground station and nearby concerned police station precisely referring to the drone managing organization. If such activities encountered the drone will trace back its path to the ground the station.

Drone security tips:

If you're worried about your own drone's security, you are not alone. Fortunately, there are many ways to make any drone more secure against the threat of drone hacking. These drone security tips should help secure your drone:

Update the drone's firmware regularly. The major drone manufacturers issue patches when new security threats

- emerge, so regular updating should help keep your drone ahead of the hackers. (DJI issued a security patchafter hackers accessed the manufacturer's website, allowing them to access flight logs, videos, photos and map views from drone users in real time. Yet, some clients refused to install it - giving hackers potential access to all their data.)

- **Use a strong password for your base station app.** Using a mix of letters, numbers and special characters to create a strong password will deter hackers; most will give up and go after easier prey. This should help avoid a malefactor hacking the drone signal.

- **If you're using a smartphone or laptop as your controller**, keep it secure and don't let it get infected by malware. (In 2012, several US Army drones were reported to have been infected by malware after an operator used a drone's computer to download and play a videogame.)
Use anti-virus software, and don't download dodgy programs or apps.

- **Subscribe to a Virtual Private Network (VPN)** to stop hackers from accessing your communications when you're connected to the internet. A VPN acts as a secure gateway to the internet and encrypts your connection, so a hacker can't get in.

- **Set a limit of one for the number of devices that can connect to your base station**. That will prevent a hacker hijacking your signal to control other devices.

- **Ensure your drone has a "Return to Home" (RTH) mode**. Once you have set the home point, this will enable the drone to return if it loses signal, if your signal is jammed, or if the battery becomes depleted. This will enable you to recover your drone from a hijack situation. However, because RTH depends on GPS to work, it's not immune to GPS spoofing.