

Drone Delivery System

Online System for Delivery

Problem We Have Solved

During this pandemic of COVID-19 it is advised to not to go out from home and keep social distancing. And our whole country is lockdown. So peoples having so much difficulties to fulfill their daily needs, as our government is provided some phone numbers for delivery of daily need and essential needs but somewhere it is dangerous because delivery will deliver items to every door and who knows that behind a door there is COVID-19 effected one. And that delivery boy can spread virus very easily. So we need a solution which will decrease this effect.

Introduction to Our Idea

Our idea is to provide an online website where people can find their essential needs and book them easily and can also pay the amount online. And we will deliver that item using an automatic delivery drone, which will deliver the item to the users location. This will reduce the danger of spreading virus from delivery boy.

About Our Website

We will publish a website which will take essential items orders online. And this website is automatically able to send the notification to the nearest supplier so that they can prepare the order. And after getting an order we will also notify the supplier from our side complete the order. And then we will send the drone to the supplier's location to receive the order and the drone will automatically deliver the order to the preferred location.

About Our Drone

We will introduce a delivery drone which can carry upto 10 KG of weight. This drone is fully capable to take a flight to a location that we will set. A rough estimate for the price of drone is,

To lift 10 KG of weight we need,

4 1200 Watt DC Brushless Motors

4 motors = Rs. 6000/-

Li-ion Battery = Rs. 15000/-

Other Equipments like propellers, frame, stepper motor & sensors = Rs. 15000/-

Total Cost = Rs. 31000/-

Technologies Used

For this system we will use following technologies,

- Python
- Django Framework
- Cloud Computing
- IOT

Funds We Need

This project must have to implemented as soon as possible. So we need to invest equally in digital marketing. And as a rough estimate we can start this idea with Rs. 50,000- Rs. 60,000 of funds for a single drone delivery system.

What We Earn?

Initially we will give this service for FREE during this pandemic. And after that we will take Rs. 10/- per order. As a estimate if we got 200 orders then we can earn of Rs. 2000/- with atleast 10 drones which will take an investment of Rs. 3,10,000/-. And this investment can be recovered in 6 months by earning 3,60,000. This is a rough estimate only. But initially we would like to provide this service for FREE.

Our Team

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Our team has won 1st Prize in Kalam Startup
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THANK YOU