

DPDS, Where are They?

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I. Part 1

A. Description

We intend to implement a readily accessible and user friendly delivery management and tracking system that is useful for both clients and their users (the general public). The clients will have options to get a number of drones which they can then use to deliver packages, tracking their location throughout the process.

B. Vision Statement

Our vision is to create the most user-friendly UAS (drone) package delivery management and tracking system for both clients and the general public (users).

C. Motivation

UAS delivery systems are being developed by multiple companies, and are expected to have an immense impact on future shipping methods.

D. Risks and Mitigation Strategies

- Not all of our members are familiar with drone technology. We will address this by researching and becoming more familiar with drones.
- Not all members know HTML in depth. We will address this by utilizing the FLASK web framework and taking advantage of learning resources like w3school tutorials and codecademy courses.

E. VCS

Github: https://github.com/PaulLaliberte/Project_CSCI3308.git

F. Requirements

1. User Requirements

ID	Description	Agile Sizing	Priority
US-01	As a client, I want to see a map of active UAS's so that I can monitor UAS delivery status	8	High
US-02	As a client, I want to see a list of active UAS's with their distance from base so I can monitor delivery status	8	Critical
US-03	As a user, I want to enter a tracking number and see the status of my shipment	3	Critical
US-03-01	Update US-03 to include a map of current location	5	Critical
US-04	As a user, I want to have a simple user interface so that I can easily interact with the site	5	Critical
US-05	As a client, I want to see a list of available UAS's so that I can better estimate delivery status	3	Medium

2. Functional Requirements

ID	Description	Priority
FN-01	Registered client shall be able to log in upon arrival to site	High
FN-02	Implement a forgot password/username button	High
FN-03	Ability for new client to register	High
FN-04	Ability for new clients to rent a given number of drones	High
FN-05	Ability for clients to insert information to ship package	High
FN-06	Ability for clients to return drones for maintenance	Low
FN-07	Clients need to be able to view the location of the drones they have rented. This is programmatic modification of US-01.	High

3. Non-Functional Requirements

ID	Description	Priority
NFN-01	Performance: Clients should be directed to their home page within 2 seconds of login and users package should be tracked within 2 seconds	High
NFN-02	Security: Clients should not have access to any drones other than the ones that they have purchased	Medium
NFN-03	Platforms: Clients should be able to access webpage from any browser	High
NFN-04	Accreditation: All UAS's in use should have licenses readily available.	High
NFN-05	Usability: Obvious navigation	High

G. Methodology

We will attempt to follow the Agile/Waterfall format.

H. Project Tracking Software

<https://trello.com/b/SqPJedpw/csci-3308-project-board#>

DPDS (Drone Package Delivery Service), Where are They? Public Elegant FREE Activate your PRO trial Show Menu

Done

What are we building and what is it's purpose?

Add a card...

Sprint Backlog

P1: Proposal Submission, Repository, Project Tracker, Requirements
16/16 Jun 10

P2: Database
0/3 Jun 17

Determine next development sprint
0/3

Add a card...

Backlog

P3: Agile Experience: Stand-up Meeting, Demo to Client, Retrospective
0/5 Jun 23

P4 Final Submission
0/3 Jun 27

P5 Presentation
Jun 30

P6 Peer Evaluation + Project Reflection
Jun 27

Add a card...

User Requirements

US-01 As a system admin I want to see a map of active UAS's so that I can monitor UAS delivery status

US-02 As a system admin I want to see a list of active UAS's with their distance from base and package status so that I can monitor UAS delivery status.

US-03 As a user I want to enter a tracking number and see the status of my shipment so that I can be aware of my shipments status during transit.

US-03-01 Potential Update to US-03: As a user I want to be able to see a map of my delivery UAS's current

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Functional Requirements

FN-01 Registered admins shall be able to log in upon arrival to site

FN-02 Forgot Password/username button

FN-03 Ability for new client to register

FN-04 Ability for clients to rent a given number of drones

FN-05 Ability for clients to insert information to ship package

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