Mobile application for uploading photos to uBird

Hepta (https://heptaairborne.com) - powerline inspection using drones and AI

Background story

Hepta is providing a service of the powerline inspection and developing software products to make the inspection faster and more accurate.

We are using drones to capture the images of the power grid and process these images using AI to detect the defects on the powerline assets (towers, insulators, cross-arms, etc.). The customers of the Hepta’s services will receive a report of the faults in their power grid, so they would be able to plan their maintenance to make the power grid more reliable.

Hepta is developing a software product where the drone pilots can upload the images that they capture with the drones. The software product is a web application called uBird.

The drone pilots use their phones or mobile controllers with Android systems (remote control) to control the drones.

Problem

Currently, the drone pilots need to extract the images from their drone’s memory card to a computer to be able to upload the photos to uBird. The pilots need to manually understand which photos they have uploaded before and select the right ones for the uploading.

This process is time consuming and pilots can mistakenly upload the wrong images.

Solution

Hepta can develop a mobile application that would enable the drone pilot to upload the images to uBird from the phone or a mobile controlling device that they use to control the drone. With the mobile application solution, the drone pilot wouldn’t need to use the computer as a middle step to extract the photos from the drone and upload them to uBird.

The mobile application can assist the drone pilot in picking the right images for uploading that they haven’t uploaded before, and make the uploading process faster and with less mistakes.

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