IST 303
Group 2
09/23/2018

Project requirements

In this project you are required to:
- *Implement a GUI application in Python 3*
  - *The GUI app interfaces the user to an underlying data store.*
- *The project should be completed using the agile principles articulated in Pilone & Miles.*

Make sure to meet with your instructor as regularly as you require to ensure that the project is scoped appropriately – neither too narrowly nor too widely.

Beyond those requirements, you and your team are free to choose your own domains to create a solution project for.

There are four parts to the project, A, B, C, and D.

Part A

1. *Meet with other members of your assigned team. I will have created the teams with the goal to optimize the mix among coding, GUI, and database skills.*
2. *Come up with a concept for your application.*
3. *Create an initial set of project requirements expressed as user stories. Make sure to identify all the relevant project stakeholders.*
4. *The user stories must have estimates of completion times.*
5. *Meet with the instructor to discuss the concept and initial set of user stories.*

Due: GitHub repository URL for your project. There should be a README in the repo with relevant documentation i.e. team members, stakeholders, requirements etc.

Concept
Control the Tello drone with a GUI to take off, fly, and land.

Requirements - User stories

1. Title: Take off
   a. Description: As a user, I should be able to launch the drone from the ground into the air.
   b. Completion time: One week

2. Title: Fly in a circle
   a. Description: As a user, I should be able to fly the drone in a circle.
   b. Completion time: Two weeks
3. Title: Land drone
   a. Description: As a user, I should be able to land the drone safely on the ground.
   b. Completion time: One week
4. Title: Display the remaining charge of the battery.
   a. Description: As a user, I should be able to see the remaining battery charge in the GUI.
   b. Completion time: One week
5. Title: Display the drone's status
   a. Description: As a user, I should be able to see the status of the drone. For example, if the drone is either connected or disconnected from the computer.
   b. Completion time: One week
6. Title: Define flight plan
   a. Description: As a user, I should be able to design a flight plan in the GUI and have the drone execute the flight plan. For example, the drone will fly 15ft, rotate, fly 15ft back before landing
   b. Completion time: 3 weeks

GitHub

GitHub repository: https://github.com/thkim91/IST_303-GroupProject--Group2.git

Team members

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Team meetings

1. 9/26/2018
   a. Attendees: Taehoon, Charidy, Bill, & Siyu
   b. Notes:
      i. Discussed project concept and user stories
      ii. Collaboratively created new user stores (e.g. flight plan)
      iii. Scheduling time to meet with Prof. Chipidza on project scope

References

- https://www.ryzerobotics.com/tello
- https://dl-cdn.ryzerobotics.com/downloads/tello/0228/Tello+SDK+Readme.pdf