User Requirements		System Requirements	
Req ID	Description	Req ID	Description
UE-01	Allow remote user to set waypoints, flight patterns, or heading and speed.		
UF-A	Remote user must be able to use a UI provided by mobile android application.	SF-A-01	Application should provide remote user with drone telemetry (to include but not limited to drone attitude, heading, altitude, location, battery status and video feed)
UF-B	Mobile android application should have autopilot functionalities (i.e. navigate to waypoints)	SF-B-01	The mobile application should be able to receive waypoints in the form of GPS coordinates.
		SF-B-02	The mobile application should be able to receive a heading and speed as a flight instruction.
UF-C	User should be able to remotely control / remotely access the drone through android application.	SF-C-01	REST API will be used to remotely connect to the Android application.
UF-D	Application must be able to run on an Android phone.	SF-D-01	The Android mobile app must be written in th Java programming language.
		SF-D-02	The IDE used to create the Android mobile application will be Android Studio.
UP-02	Mobile Android application should interact with drone flight controller.	SP-02-01	The system should integrate data from the GPS, accelerometer, and gyroscope within 50 milliseconds.
		SP-02-02	Mobile Android application will utilize autopilot APIs
UP-03	If the user loses communication to the mobile app device, system application should be able to reconnect to the computer as soon as possible.	SP-03-01	The computer should constantly ping the device to check connection.