

Requirements Document

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Overview

This document contains the requirements extracted from the PizzaDronz specification, displayed in the two figures, Figure 1 and Figure 2.

Requirements Table

Requirement	Level	Qualitative/Quantitative	Func/Non-Func
Drone should deliver pizzas to Appleton	Unit	Qualitative	Functional
Drone hovers on both delivery and collection	Unit	Qualitative	Functional
Drone moves in the 16 major compass directions	Unit	Quantitative	Functional
Drone should avoid popular areas	Unit	Qualitative	Functional
Drone should fly over rooftops where possible	Unit	Qualitative	Functional
Orders must arrive in the order they were received	Integration	Quantitative	Functional
Orders must be valid to be delivered	Unit	Qualitative	Functional
Order can only contain 1-4 pizzas	Unit	Quantitative	Functional
Price of order must be the price of all pizzas in the order plus an ordering fee	Unit	Quantitative	Functional
All pizzas in one order must come from the same restaurant	Unit	Quantitative	Functional
The restaurant being ordered from must be open	Unit	Qualitative	Functional

Figure 1: Requirements Table pt.1

Requirement	Level	Qualitative/Quantitative	Func/Non-Func
Credit card numbers must be 16 digits long, with no characters	Unit	Qualitative	Functional
Credit card expiry dates must be in the future, and must be actual dates in the format of MM/YY	Unit	Qualitative	Functional
Credit card CVVs must be 3 digits	Unit	Qualitative	Functional
Runtime is 60 seconds or less	System	Quantitative	Non-Functional
Coordinates must be in longitude and latitude	Unit	Quantitative	Non-Functional
Drone must start from appleton tower	Unit	Qualitative	Non-Functional
Drone must return to central campus after collecting the pizza	Unit	Qualitative	Non-Functional
Drone must stay in the central area until it has delivered a collected pizza	Unit	Qualitative	Non-Functional

Figure 2: Requirements Table pt.2