

Evaluation Assignment 4 – Design  
Support Documents  
App – 3D rone – Team 1

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# Stakeholder Analysis:

➤ Onion Model & Table:

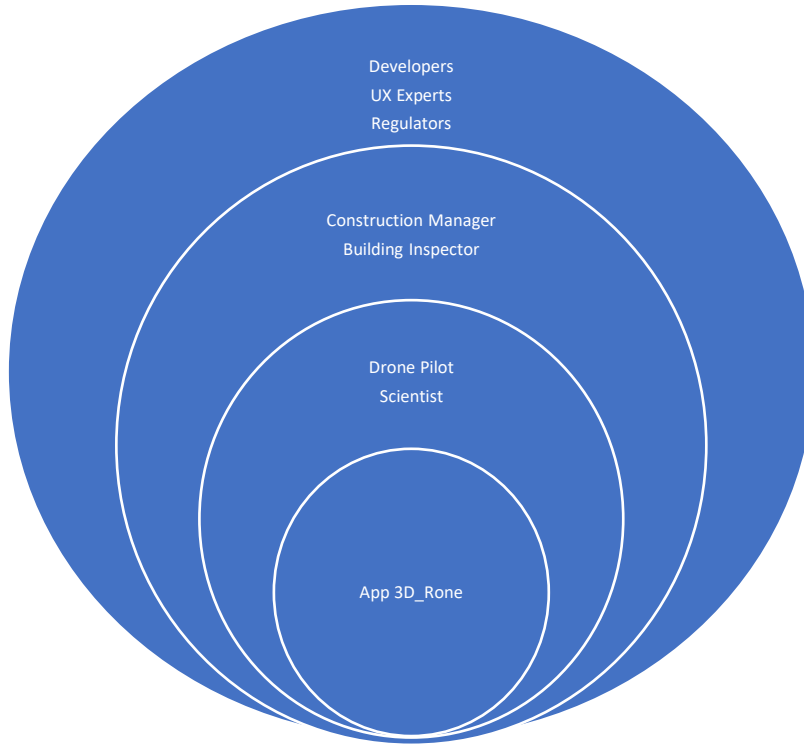


Figure01 – Onion Model of Stakeholder Relationship

➤ Table of Relationship:

<b>Product or System</b>	<b>Primary User / System User</b>	<b>Secondary Stakeholders / Containing System</b>	<b>Tertiary Stakeholders / Wider Environment</b>
3D_rone App			
	Drone Pilot		
	Scientist		
	System Admins	Construction Manager	
		Building Inspector	
		Structural Engineer	Developers
			UX Experts
			Scientist
			Regulators
			Suppliers

➤ **Stakeholders Goal-Influence Table**

<b>Stakeholder</b>	<b>Goal Description</b>
<b>App</b>	The 3D_rone web application. The product or system.
<b>Drone Pilot</b>	Navigate 3D Environment of a Building Space through the App to analyze the flight path, position, and challenges to operate the flight.
<b>Construction Managers / Building Inspectors</b>	Secondary user of the App. They will manage the project with the help of the App.
<b>Ricardo Eiris</b>	Scientist and the expert user. He is Secondary user.
<b>Developers</b>	Developers of the App or the system – Undergraduate Students of CS4760
<b>UX Experts</b>	Graduate students of CS 5760 course to evaluate and test the app.
<b>Regulators</b>	They are the tertiary users and responsible for maintaining regulatory issues related to the App.

## **2. Personas for the Primary Stakeholder:**

### **Primary Users:**

#### **Persona 1:**

**Paul Nixon**  
**Drone Pilot**

Age: 29  
Height: 5' 6"  
Weight: 148 lbs  
Right Handed

Paul is a drone pilot. He isn't the greatest pilot, but he enjoys his work. Much of his work as a pilot requires computers for gathering experience and increase expertise. But, besides work, he doesn't use computers much. Outside of his work he generally uses touchscreens. Recently, he has begun flying and taken this seriously. He would gladly admit he is not the most experienced and skilled pilot, but he is eager to try new things.

#### **Persona 2:**

**Adam Smith**  
**Scientist**

Age: 35  
Height: 5' 8"  
Weight: 174 lbs  
Right Handed

Adam is the scientist and obsessed with new technology and gadgets. He is somewhat introvert but will talk your ear off about his research works as well as his latest gadgets. He has a very fast PC feels right at home with a keyboard and mouse. He wants to use the App data for his research purpose as well as he will develop the innovative product as a customer friendly one. His tech friendly behavior will add an extra level to the user experience of the drone flight app.

## **Secondary Users:**

### **Persona 3:**

**Building Manager**  
**Michael Fleming**

Age: 55  
Height: 6' 2"  
Weight: 181 lbs  
Right Handed

Michael has a booming voice and is a boisterous character. For the past 17 years, he has been in charge of the everyday operations of the local sports stadium. He likes to go and get things done and has a clear idea of how he wants things to be done. Michael is wary of new techniques, but he is willing to adopt them if they have been proven to be productive. Over the last ten years, he has been computerizing everything. Michael is a very organized person who has done an excellent job as a manager since taking over the position. He intends to retire in the next ten years.

### **Persona 4:**

**Ben Forster**  
**Construction Worker**

Age: 24  
Height: 5' 10"  
Weight: 187 lbs  
Left Handed

Ben doesn't care about his job, but he does show up every day. Many of his high school pals have lately received their college diplomas. Ben has an outdated laptop as he is uninterested in technology. He is typically able to figure out how to accomplish his goals. Ben is no stranger to flying drones. He has worked as a construction worker since the age of 17 and has noticed that they've become more common on job sites in recent years. He is thinking about purchasing one. Those seem amusing to him. Ben is unconcerned about the future.

### **3. Simplified HTA for 3D rone App:**

#### **Upper-level views:**

\*Select 'Upload' or 'Analyze' tab

Upload View

- \* Upload building space file and set display name (stretch goal)
- \* Upload flight path view and set display name (stretch goal)
- \* Upload inspection point set (stretch goal)
- \* Use defaults

Analyze View

Sidebar

Viewer

Drone Data view

- \* Expand/collapse accordion item

Toggle Paths view

- \* Expand/collapse accordion item
- \* Make path visible/invisible
- \* Highlight path (New Viewer view, Update Drone Data)

Mouse Data view

- \* Expand/collapse accordion item

Align Scene view

- \* Expand/collapse accordion item
- \* Adjust Position Offset
- \* Adjust Rotation Offset

Scene Alignment Popup

- \* Click 'Okay'

Viewport view

View cube view

- \* Press 'Reset View'
- \* Adjust camera position (X, Y, Z)
- \* Adjust camera rotation
- \* Click path (Highlight path, New Viewer view, Update Drone Data)
- \* Hover over point (Update Mouse Data)

#### **Lower-level views:**

New Viewer view

- \* Expand/collapse accordion item
- \* Play animation
- \* Pause animation
- \* Scrub animation timeline

Adjust Scene Modal

- \* Okay