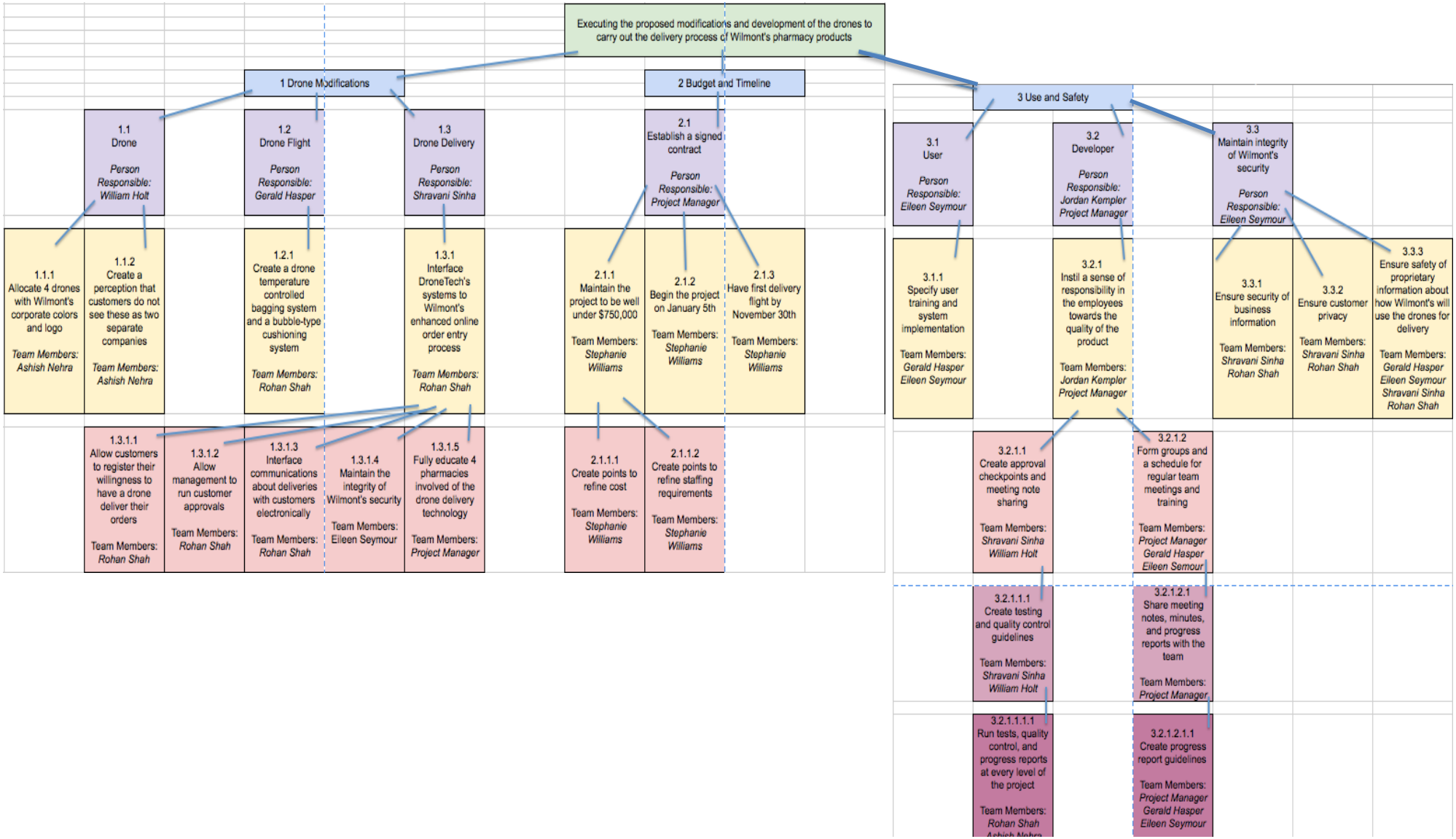
Droneceuticals

DroneTech Assignment #2:
Initial DroneTech WBS Development

Team: Kingslayer
Project Manager: Taylor Rembos
Team Members: David Garcia, Gardner Reid, Jessica Smith

Due Date: November 9, 2016

Work Breakdown Structure



Data Dictionary

Data Dictionary				
Task Code	**Task Name**	**Task Description**	**Person Responsible**	**Team Members**
1.1.1	Drone Allocation	Allocate 4 drones with Wilmont's corporate colors and logo	William Holt	Ashish Nehra
1.1.2	Customer Perception	Create a perception that customers do not see these as two separate companies	William Holt	Ashish Nehra
1.2.1	Temperature and cushioning control	Create a drone temperature controlled bagging system and a bubble-type cushioning system	Gerald Hasper	William Holt Ashish Nehra
1.3.1	Drone Interfacing	Interface DroneTech's systems to Wilmont's enhanced online order entry process	Shravani Sinha	Rohan Shah
1.3.1.1	Customer Management	Allow customers to register their willingness to have a drone deliver their orders	Shravani Sinha	Rohan Shah
1.3.1.2	Customer Approvals	Allow management to run customer approvals	Shravani Sinha	Rohan Shah
1.3.1.3	Deliveries Interfacing	Interface communications about deliveries with customers electronically	Shravani Sinha	Rohan Shah
1.3.1.4	Security	Maintain the integrity of Wilmont's security	Eileen Seymour	
1.3.1.5	Pharmacy Education	Fully educate 4 pharmacies involved of the drone delivery technology	Project Manager	
2.1.1	Project Budget	Maintain the project to be well under $750,000	Project Manager	Stephanie Williams
2.1.2	Project Initialization	Begin the project on January 5th	Project Manager	Stephanie Williams
2.1.3	Project Flight	Have first delivery flight by November 30th	Project Manager	Stephanie Williams
2.1.1.1	Project Budget Cost	Create points to refine cost	Project Manager	Stephanie Williams
2.1.1.2	Project Budget Staff	Create points to refine staffing requirements	Project Manager	Stephanie Williams
3.1.1	User Training	Specify user training and system implementation	Project Manager	Gerald Hasper William Holt Ashish Nehra
3.2.1	Employee Responsibility	Instil a sense of responsibility in the employees towards the quality of the product	Jordan Kempler	Project Manager
3.3.1	Business information security	Ensure security of business information	Shravani Sinha	Rohan Shah
3.3.2	Customer Privacy	Ensure customer privacy	Shravani Sinha	Rohan Shah
3.3.3	Information Safety	Ensure safety of proprietary information about how Wilmont's will use the drones for delivery	Gerald Hasper Eileen Seymour	Shravani Sinha Rohan Shah
3.2.1.1	Approval Checkpoints	Create approval checkpoints	Project Manger	
3.2.1.2	Team Meetings	Form groups and a schedule for regular team meetings and training	Project Manager	Gerald Hasper Eileen Seymour
3.2.1.1.1	Testing Guidelines	Create testing and quality control guidelines	Gerald Hasper Eileen Seymour	Shravani Sinha Rohan Shah William Holt Ashish Nehra
3.2.1.2.1	Team Updates	Share meeting notes, minutes, and progress reports with the team	Project Manager	
3.2.1.1.1.1	Testing and Quality Control	Run tests and quality control at every level of the project	Gerald Hasper Eileen Seymour	Shravani Sinha Rohan Shah William Holt Ashish Nehra
3.2.1.2.1.1	Progress Reports	Create progress report guidelines	Project Manager	

Deliverables List

- **1** Provide Wilmont with technology needed for delivery and drone control
- **1.1.1** Create 4 new drones in Wilmont's colors and logos
- **1.1.2** Combining both companies
- **1.2.1** Create extra drone modifications, including temperature-controlled product bagging and bubble-type cushioning system
- **1.3.1** Creation of enhanced online entry process, featuring an approval process
- **1.3.1.1** Allow customers to register their willingness to have a drone deliver their orders
- **1.3.1.2** Allow management to run customer approvals
- **1.3.1.3** Creation of customer alerts upon delivery
- **1.3.1.4** Develop secure network protecting clients privacy as well as business secrets
- **1.3.1.5** Fully educate 4 pharmacies involved of the drone delivery technology

- **2.1** Develop proposed contract and payment plan
- **2.1** Provide a project plan with detailed costs in final contract
- **2.1.1** Budget under $750,000
- **2.1.2** Project begins Jan 5
- **2.1.3** First flight Nov 30
- **2.1.1.1** Creation of points to refine cost.
- **2.1.1.2** Creation of points to refine staffing requirements.

- **3.1.1** Specification of user training and system implementation.
- **3.2.1** Instill a sense of responsibility in the the employees regarding the quality of the product produced
- **3.3.1** Ensure security of business information
- **3.3.3** Ensure safety of proprietary information about how Wilmont's will use the drones for delivery
- **3.2.1.1** Creation of approval checkpoints
- **3.2.1.1.1** Creation of testing and quality control guidelines
- **3.2.1.1.1.1** Test drone modifications
- **3.2.1.2** Weekly meetings with teams and their members to make sure the project is on schedule
- **3.2.1.2.1** Review of meeting minutes to ensure no topics were missed, and that the teams are all on track for completion of project deadline
- **3.2.1.2.1** Sharing of meeting notes and minutes taken designated people in order to keep the entire team on the same page, track the progress, and update anyone who cannot be at the same meeting

- **3.2.1.2.1.1** Creation of progress reports regarding overall project, approval checkpoint, testing, and quality control checkpoint progressions, keeping the team on the same page and ensuring a high quality product

Assumptions List

Assumptions / Risks / Obstacles

1. **Technological**

    - Customized special technology will be needed for delivery and drone control, such as adapting a temperature-controlled product bagging system with a bubble-type cushioning system for delivery.
    - The information for each delivery will be obtained from Wilmont's systems, it is assumed that this will be correct information.
    - Need to maintain the security of the system and protect customer information (programming security into the system).
    - Need to make robust and reliable system to secure packages to drones.
    - Need to design and implement security system for drones to minimize occurrence of stolen packages.

2. **Environmental**

    - Successful integration of DroneTech and Wilmont staff.
    - Project needs to be done for under $750,000.
    - Need to have first delivery by November 30th.
    - Need to establish a signed contract and a longterm relationship.
    - Wilmont staff needs to be trained to correctly.
    - Need to maintain the security of the system and protect customer information (administrative enforcement of security measures).
    - New drone regulations might be enacted by the FAA.
    - Drones could be damaged or stolen.

3. **Interpersonal**

    - The DroneTech and Wilmont's staff have never worked with each other before and may have different cultural behaviors.

4. **Cultural**

    - Assuming a statistically significant portion of the San Francisco population, Wilmont's target customers, will participate in the pilot program.

5. **Causal Relationships**

- Assuming a successful pilot project in San Francisco, Wilmont's target customers area, will accurately predict the success in other areas of the United States.

Precedence Table

Precedence Table		
Activity	**Predecessor**	**Duration**
2.1.2	2.1.2 2.1.1.2 2.1.1.1	1 week
2.1.1		1/7 week (ongoing)
2.1.1.2		1/7 week (ongoing)
2.1.1.1		1/7 week
1.1.1	2.1.2	1 week
1.2.1	1.1.1	7 weeks
1.1.2	1.1.1	4 weeks
1.3.1	2.1.2	7 weeks
1.3.1.1	1.3.1	4 weeks
1.3.1.2	1.3.1.1	2 weeks
1.3.1.3	1.3.1	3 weeks
1.3.1.4	1.3.1	12 weeks
1.3.1.5	1.2.1 1.1.2 1.3.1.2 1.3.1.3 3.1.1 3.3.2 3.3.3	3 weeks
3.1.1	2.1.2	3 weeks
3.2.1	2.1.2 2.1.1.2	4 weeks
3.3.1	1.3.1.4	8 weeks
3.3.3	1.3.1.4	8 weeks
3.3.2	3.3.1	8 weeks
3.2.1.1	3.2.1	2/7 week
3.2.1.2	3.2.1	1 week
3.2.1.1.1	3.2.1.1	1 week
3.2.1.2.1	3.2.1.2	1/7 week (ongoing)
3.2.1.1.1.1	3.2.1.1.1	1/7 week (ongoing)
3.2.1.2.1.1	3.2.1.2	2/7 week

****ongoing** = same of these tasks will run for the duration of the project and will be updated at various intervals. As far as the critical path goes, in order to start the next node of the critical path, these tasks do not need to be fully completed to move to the next task.

Network Diagram