Name: David Kleckner

Title: AstroExplorer: Voyage Home Requirements/Documentation

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Use Case ID:	UR-02				
Use Case Name	Player Sprite Movement				
Description	As the player, I want to be able to move through space with my				
	jetpack.				
Actors:	Player				
Pre-condition	The user must already be in the game and able to move.				
Post-condition	The User moves the direction that they want to move.				
Frequency of	Almost constantly in-game				
Use					
Flow of Events:		Actor Action	System Response		
	1	Player presses movement key	Fuel depletes and sprite		
			moves specified direction.		
	2	Player releases movement	Stops directional		
		key	momentum until player		
		-	slows.		
	3.	Player chooses another action			
Variations	In 1, if player collides with an in game object, health goes down.				

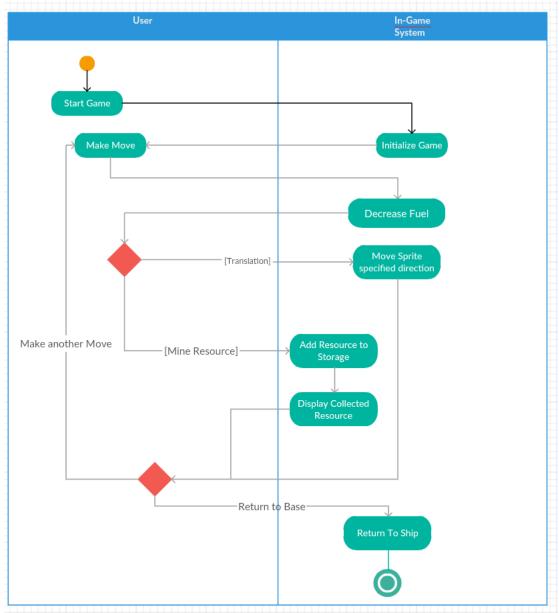
Use Case ID:	UR-01				
Use Case Name	Player Sprite Mining				
Description	As the player, I want to be able to mine resources as I move				
	through asteroids.				
Actors:	Player				
Pre-condition	The user must already be in the game and on a mineable object				
Post-condition	The User gains material from mineable object.				
Frequency of	A necessary function in-game				
Use					
Flow of Events:		Actor Action	System Response		
	1	Player presses mining key	Fuel depletes and sprite		
			changes to mining state.		
	2	Player holds key until	After resource is mined		
		resource collected.	system displayed collected		
			resource, adds it to storage,		
			and replaces resource		
			object with regular asteroid.		
	3.	Player chooses another action			
Variations	2. if storage is full, display pops up that the storage is full ar				
	resource could not be collected.				

## **Activity Diagram**

UR-02: Move with Jetpack

As the player, I want to be able to move through space with my jetpack.

Use Case: In Game Controls: David Kleckner



## **Sequence Diagram:**

UC-02: Move with Jetpack

As the player, I want to be able to move through space with my jetpack. Use Case: In Game Controls: allows the player basic movement control over their sprite.

1. Player Enters preferred direction of movement, which is input into Character class.

- 2. Character then establishes connection with Entity through the Movable class, allowing for Character to access Velocity, which can then be used in Move(Direction, Velocity)
- 3. After calling Move(), it returns the transitioned location of the sprite, which is then implemented in-game.

