**Initiate Launch**
*Main Success Scenario*

1. System indicates the Countdown at 0 and ready to launch
2. Flight Controller Initiates Launch
3. System directs Engines to ignite
4. System returns confirmation of engine ignition
5. System monitors the Launch Data
6. System returns the Launch Data to the Flight Controller
7. System informs the Flight Controller the Rocket is ready to launch
8. Flight Controller commands the System to launch the Rocket
9. System launches the Rocket (Launch mechanism)
10. System transitions to Launch upon the Rocket clearing the Launch Tower

*Alternative Scenarios*

* If Use Case is fully automated, then the System Initiates the Launch, assess when to launch the Rocket, and commands the physical activites to launch the Rocket. The Flight controller has the ability to manuall override and take control as needed

1a. Based on the data provided, the System advises the Flight Director on Launch Viability

2a. The Flight Controller can chose not Initiate the Launch

4a. If the Engines do not ignite, then the System alerts the Flight Controller, the Flight Controller aborts the Launch

5a., 6a., 7a. If the System indicates an error in the Launch Data, then the System alerts the Flight Controller of the issue, with data and recomendation (abort or not abort the Launch).

8a., 9a The Flight Controller can abort the Launch, the System will not activate the Launch Mechanism

10a. In the event of a Launch Abort, the System will not transition to Launch