

Galactic Takeover:

USE CASES & UML DIAGRAM

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USE CASES

- **View Title Screen**
 - Actor: User (Player)
 - Pre-Condition: Game is downloaded on iOS Device
 - Post-Condition: Select players
 - Events:
 - Initial title screen is displayed
 - Shows the picture of the title (logo)
 - Loads the game in the background
 - Player is presented with options for starting the game
 - “Play Game”
 - Game is initiated and taken to player selection
 - **Settings (Extension)**
 - Actor: User (Player)
 - Pre-Condition: Player wants to play the game
 - Post-Condition: Player is satisfied and customized the game to their liking
 - Events:
 - Adjust brightness
 - Toggles brightness level
 - Adjust volume.
 - Toggles extremity of sound
 - Mutes the game
 - Read credit description.
 - Reads game creator credits
 - Return to title screen
 - Selects back button and returns to title screen
 - Go back to Use Case: “View Title Screen”
- **Start Establishing Game Rules**
 - **Select Player Amount**
 - Actor: User (Player)
 - Pre-Condition: Selected “Start Game”
 - Post-Condition: Amount of players has been set
 - Events:
 - User selects amount of players participating
 - Must be between 2 and 6 players
 - **Select Player Characters**
 - Actor: User (Player)
 - Pre-Condition: Amount of players has been set
 - Post-Condition: Each player has their respective alien
 - Events:
 - Different characters are displayed

- Each player can choose 1 mutant that will represent them in the game
 - Cycle through the players until each player chooses their mutant
 - **Randomly Select order of players**
 - Actor: Computer (CPU)
 - Pre-Condition: Amount of players has been set
 - Post-Condition: Each player has their respective alien
 - Events:
 - Game system determines order of which the players will conduct their turn in
 - Saves that order until the game finishes executing
 - **Select Board**
 - **Select Battle Location**
 - Actor: Computer (CPU)
 - Pre-Condition: Player amount has been established
 - Post-Condition: Game will be able to execute on the map
 - Events:
 - If there are less than 5 players
 - Game will only be played on Planet X
 - If there are 5 or more players
 - Game will be played on both Planet X and the Moon
- **Begin Game Execution**
 - **Set Up Board**
 - Actor: Computer (CPU)
 - Pre-Condition: Board has been selected
 - Post-Condition: First player can roll the die
 - **Die Roll(s)**
 - Actor: User (Player)
 - Pre-Condition: Players have chosen their characters
 - Post-Condition: Game play initiated
 - Events:
 - 1st Die Roll
 - Player rolls 6 black die and chooses which set to keep
 - 2nd Die Roll (Extension)
 - If the player wishes to continue rolling die for a better set, they can roll a second time and
 - 3rd Die Roll (Extension)
 - If the player wishes to continue rolling die for a better set, they can roll a third time
 - **Resolve Die**
 - Actor: User (Player)

- Pre-Condition: Player finishes the die rolls they wish to complete up to three
- Post-Condition: Player continues their turn
- Events:
 - **Gain Victory Points**
 - Actor: Player
 - Pre-Condition: Die resolved and player rolled a three of a kind
 - Post-Condition: Continue Turn
 - Events:
 - Player gains as many Victory Points as the number they rolled in the triple set
 - Each additional same face gains the player 1 additional victory point
 - **Attack Opposing Characters**
 - Actor: User (Player)
 - Pre-Condition: Die resolved and player rolled a claw
 - Post-Condition: Continue turn
 - Events:
 - Players on planet can attack opposing players off the planet
 - Players outside the planet can attack opposing players on the planet
 - **Obtain Energy**
 - Actor: User (Player)
 - Pre-Condition: Die resolved and player rolled a lightning bolt
 - Post-Condition: Continue turn
 - Events:
 - Players earn energy cube for each lighting bolt face rolled
 - **Heal**
 - Actor: User (Player)
 - Pre-Condition: Die resolved and player rolled a heart
 - Post-Condition: Continue turn
 - Events:
 - Players outside of the planet can gain 1 health experience, each time a heart face is rolled
 - Players inside the planet cannot gain health experience, even though they rolled a heart face

- **Takeover Planet**
 - Actor: User (Player)
 - Pre-Condition: Planet is not occupied by another player
 - Post-Condition: Player remains on the planet until they are attacked
 - Events:
 - Player enters the planet if there is an open space
 - Player gains 1 Victory Point
- **Stay on Planet for a Round**
 - Actor: User (Player)
 - Pre-Condition: Player still on the planet after all other players play their turn for that round
 - Post-Condition: Player still on planet, continues their turn
 - Events:
 - Player gains 2 Victory Points
- **Vacate Planet**
 - Actor: User (Player)
 - Pre-Condition: Player on planet and gets attacked by another player
 - Post-Condition: Player exits the planet, and opposing players' can now enter
 - Events:
 - Player chooses to exit the planet when attacked
- **Buy Power Cards**
 - Actor: User (Player)
 - Pre-Condition: Player has acquired enough energy points to purchase Power Cards
 - Post-Condition: Player turn is over, the next player is up.
 - Events:
 - Player purchases Power Cards less than or equal to the amount of energy points they own.
 - Power Card amount exceeds energy points, player can not purchase Power Card.
 - Refresh deck of three power cards, by using two energy points.
- **Keep Power Card**
 - Actor: User (Player)
 - Pre-Condition: Player has purchased a Keep Power Card.
 - Post-Condition: Player has the power card for the duration of the game.
 - Events:
 - Player purchases a Keep Power Card that has the ability to be stored with them for the duration of the game
- **Discard Power Card**

- Actor: User (Player)
- Pre-Condition: Player has purchased a Discard Power Card.
- Post-Condition: Player has activated power card for a single-use ability.
- Events:
 - Player purchases a Discard Power Card that has only a single-use ability own the players given turn.
 - Power Card is discarded after initial ability use.
- **Refresh Power Card Deck**
 - Use Case: Refresh Power Cards
 - Actor: User (Player)
 - Pre-Condition: Player has acquired enough energy points to purchase Power Cards
 - Post-Condition: New set of three Power Cards are displayed.
 - Events:
 - Player can refresh deck only when energy points are equal to or greater than two.
 - Power Card amount exceeds energy points, the player can not refresh the Power Card set.
- **End Game**
 - **Player Defeats all other players**
 - **Someone manually leaves the game**
 - Use Case: End Game
 - Actor: User (Player)
 - Pre-Condition: Game is no longer being played
 - Post-Condition: Game memory is wiped and user resumes from Use Case 1
 - Events:
 - Manually Leave Game:
 - Player selects options on top right corner
 - Selects “Leave Game” option
 - Confirms selection
 - Player defeats all other players
 - All players except one have 0 health left
 - One player is declared ruler of the galaxy!
 - **Revert to Title Screen (Use Case 1)**

UML DIAGRAM

