**UC Move Pad** (Group 30 “AKA”)

**Summary:** Player moves pad across the game board

**Priority:** High

**Normal flow:** A player controlled pad is moving across game board

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|  | **Actor** | **System** |
| 1 | Player press “left” key |  |
| 1.2 |  | Pad moves clockwise orbiting around board center |
| 2 | Player press “right” key |  |
| 2.2 |  | Pad moves in counterclockwise around board center |

**Normal flow:** Player press “attack” key to serve a new ball

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|  | **Actor** | **System** |
| 1 |  | A new ball is attached at center of a player’s pad |
| 2 | Player press “left” key |  |
| 2.1 |  | The pad is moved clockwise, the ball follows |
| 3 | Player press “right” key |  |
| 3.1 |  | The pad is moved counterclockwise, the ball follows |
| 4 | Player press “attack” key |  |
| 4.1 |  | The ball is released, moving towards center of game |

**Alternative flow:** Player serving new ball, doesn’t press “attack” key to release ball.

Ball is automatically served after 3 seconds.

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|  | **Actor** | **System** |
| 1 |  | A new ball is attached at center of a player’s pad |
| 2 |  | 3 seconds pass since ball is served, no player input |
| 3 |  | The ball is released, moving towards center of game |

**Normal flow:** Player moves pad to intercept ball, the ball is hit and bounces back.

**Includes:** UC Hit Ball

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|  | **Actor** | **System** |
| 1 | Player moves pad |  |
| 2 |  | The ball hits the pad |
| 3 |  | The pad moves to outer edge of game board |
| 4 |  | Opponent’s pad moves to inner edge of game board |
| 5 |  | Calculate new ball direction based on deflection angle |
| 6 |  | Slightly increase the ball’s speed |

**Alternative flow:** Inner player miss ball, outer player hit and deflect the ball back.

**Includes:** UC Miss Ball, UC Hit Ball

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| --- | --- | --- |
|  | **Actor** | **System** |
| 1 | Inner player miss ball |  |
| 2 | Outer player hits ball |  |
| 3 |  | Calculate new ball direction based on deflection angle |

**Normal flow:** Neither player hits ball and ball exits game area.

**Includes:** UC Miss Ball, UC Game Over

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|  | **Actor** | **System** |
| 1 |  | Ball moves towards edge of game board. |
| 2 | Inner player moves pad |  |
| 2.1 | Outer player moves pad |  |
| 3 |  | Either pad miss the ball which exits game area |
| 4 |  | Score goes to player in the inner position |
| 5 |  | Check if the player got 10 points, ending the game |
| 6 |  | Respawn new ball by pad at inner position. |