OLA ELECTRIC SCOOTER STATE TRANSITIONS

STATES :
- PARK MODE
- MUSIC MODE
- STANDBY MODE
- RIDE MODE

EVENTS :
- WHEN SIDE STAND IS REMOVED
- WHEN SIDE STAND IS PARKED
- WHEN POWER BUTTON IS PRESSED
- WHEN MUSIC IS PLAYING
- WHEN MUSIC STOPS PLAYING

State Dependent Behaviors:

WHEN SIDE STAND IS REMOVED:
If currently in ride mode: Does nothing, remains in ride mode.
If currently in park mode: Transitions to standby mode
If currently in Standby Mode: Transitions to ride mode
If currently in music mode: Transitions to standby mode

WHEN SIDE STAND IS PARKED:
If currently in park mode:Does nothing, remains in park mode.
If currently in ride mode: Sidestand should be disabled
If currently in Standby Mode: Transitions to park mode
If currently in music mode: Does nothing, remains in music mode.

WHEN POWER BUTTON IS PRESSED :
If currently in park mode : remains in park mode, Ask the user to remove the side stand.
If currently in ride mode: scooter slowly comes to halt, changes to standby mode.
If currently in Standby Mode: Transitions to ride mode.
If currently in music mode: Does nothing, remains in music mode.

WHEN MUSIC IS ACTIVATED:
If currently in park mode : Transitions to music mode.
If currently in ride mode: Does nothing.
If currently in Standby Mode: Does nothing.
If currently in music mode: Does nothing, remains in music mode.

WHEN MUSIC STOPS PLAYING:

If currently in park mode : Does nothing.
If currently in ride mode: Does nothing.
If currently in Standby Mode: Does nothing.
If currently in music mode: Transitions to park mode.

State transition diagram