**Project title**: **Head movement based wireless communication with speech alert for Paralyzed Person**

**Top five risks** :

1.sensor read error:

There is a possibility that the accelerometer sensor does not recognize the predefined tasks and does not respond to the patients head movement commands.

Risk Mitigation Step:

Weekly check for sensor working and performance. Replace sensor if found faulty.

2.Microcontroller power supply:

The microcontroller power supply might go down and thus turning off the microcontroller

Risk Mitigation Step:

Check power connections properly during installation and reconnect if connection are broken

3.Wireless transceiver failure:

The zigbee component which is being used as wireless might run into error due to mishandling or power shortage.

Risk Mitigation Step:

Check wireless connectivity during installation and weekly afterwards.

4.Relay system failure

The relay system used to control might wear off or connection between the relay-microcontroller or relay-appliance can go bad.

Risk Mitigation Step:

Relay systems to be checked during installation and weekly thereafter.

5.Overall integration error on software update

The code which integrates the system may go for a toss in case of some firmware changes.

Risk Mitigation Step:

Ensure proper integration after a firmware update.