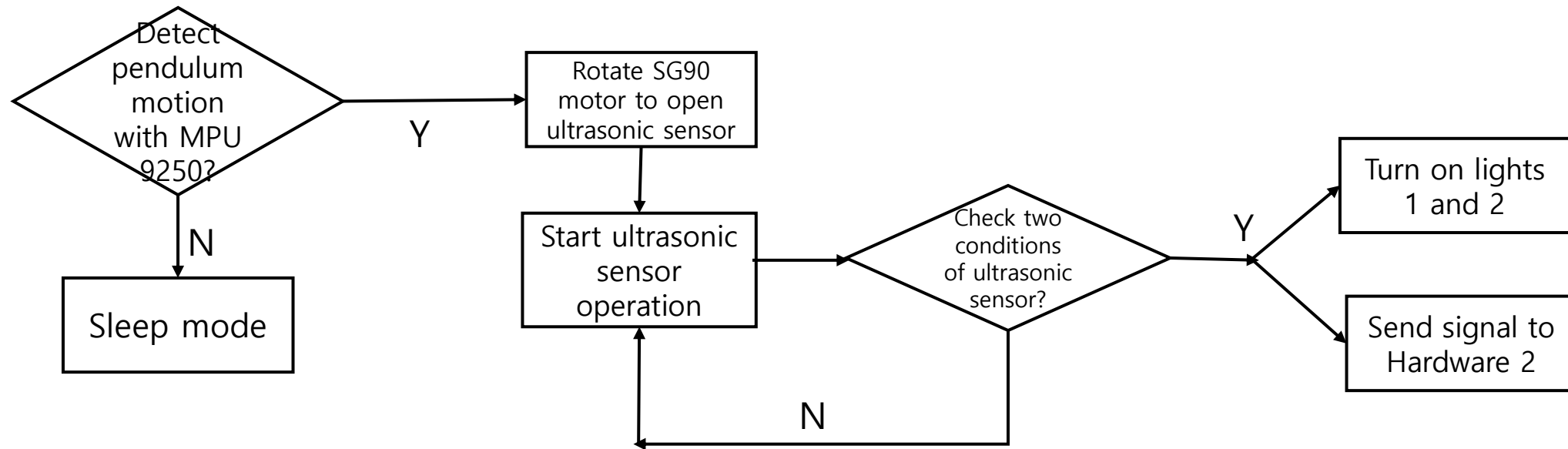
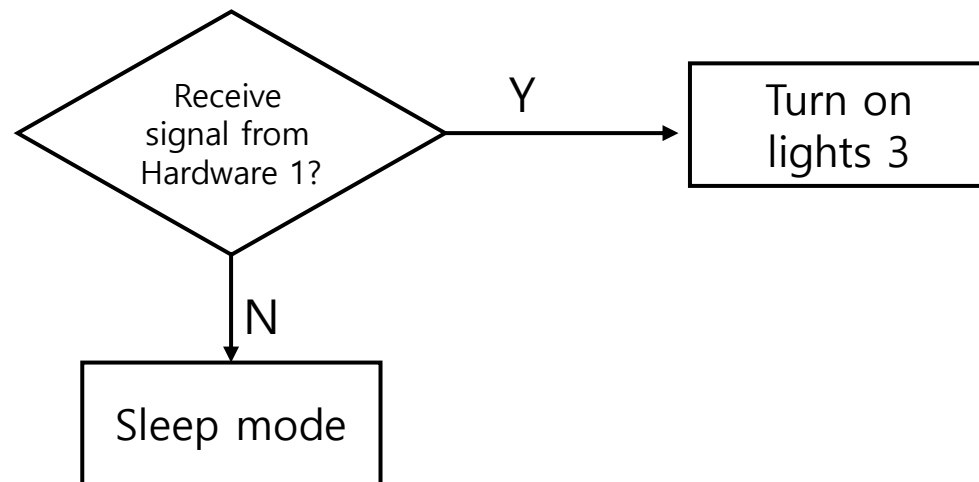


<Flow chart of SeaSafe Pocket Alert>



- Hardware1



- Hardware2

<SeaSafe Pocket Alert: the current consumption and usage time >

Name	Hardware 1 (5V Battery)	Hardware 1 (12V Battery)	Hardware 2 (5V Battery)	Hardware 2 (12V Battery)
Light 1	300mA	-	-	-
Light 2	480mA	-	-	-
Ultrasonic Sensor	-	-	-	-
SG90 Motor	-	250mA	-	-
HC06	-	35mA	35mA	-
MPU 9250	-	3.8mA	-	-
Arduino Uno	-	50mA	50mA	-
Light 3	-	-	-	1.2A
Total Current	780mA	368.8mA	85mA	1.2A
Battery Capacity	1Ah	0.3Ah	1Ah	0.3Ah
Usage Time	Approx. 1 hour 17 minutes (1.28 hours)	Approx. 48 minutes (0.81 hours)	Approx. 11.76 hours	Approx. 15 minutes (0.25 hours)

<Hardware1 modules>

Component	Operating Current	Operating Voltage	Buying link
12V Battery	-	12V	https://www.coupang.com/vp/products/118620658?itemId=353973103&vendorItemId=3862505508&src=1042503&spec=10304025&addtag=400&ctag=1186206588&ptag=103040251353973103V3862505508&time=20240717173505&pageType=PRODUCT&pageValue=1186206588&wPcid=171463379747938059026008&wRef=www.google.com&wTime=20240717173505
5V Battery	-	5V	https://www.eleparts.co.kr/data/goods_old/data/1BATT-D5-1.pdf
Ultrasonic Sensor	30mA	4.5~5.5V	http://www.st4u.com/?version=135&spkey=5b3a3e4874f80210e3b655253439c7e702c29894&module=true&PageAccess=main/_product8-2
Bread board	-	-	https://www.icbanq.com/P007144873
SG90 Motor	220~250mA	-	https://www.devicemart.co.kr/goods/view?no=12503475
TIP120 Transistor	-	-	https://www.digikey.kr/ko/products/detail/stmicroelectronics/TIP120/603564?utm_adgroup=&utm_source=google&utm_medium=cpc&utm_campaign=PmaxShopping_Product_All&utm_term=&utm_content=&utm_id=go_cmp-21036528233_adg-ad-dev-c_ext-prd-603564_sig-CjwKCAjwnK60BhA9EiwAmpHZw2b96LDcPBcy-3oTElqDGBUaFdpX0rVbfn_xbvlh8LmccTF02UefRoCCU8QAvD_BwE&gad_source=1&gclid=CjwKCAjwnK60BhA9EiwAmpHZw2b96LDcPBcy-3oTElqDGBUaFdpX0rVbfn_xbvlh8LmccTF02UefRoCCU8QAvD_BwE
Light 1	0.3A	12V	https://mechasolution.com/shop/goods/goods_view.php?goodsno=543968&rid=94ae54f0-70e3-4a29-9f01-3ab305ba539d
Light 2	0.48A	12V	https://mechasolution.com/shop/goods/goods_view.php?goodsno=543968&rid=94ae54f0-70e3-4a29-9f01-3ab305ba539d
HC06	30~40mA	3.6V ~ 6V	https://eduino.kr/product/detail.html?product_no=27&nbsrc=adwords_x&nbskw=&gad_source=1&gclid=CjwKCAjwnK60BhA9EiwAmpHZw-yfX4fv9fa5duRqoVG9RTWPEkqWdlgvjOHnliN9LDH067rpb4jLlxoCrxMQAvD_BwE
MPU 9250	3.8mA	2.4V ~ 3.6V	https://eduino.kr/product/detail.html?product_no=27&nbsrc=adwords_x&nbskw=&gad_source=1&gclid=CjwKCAjwnK60BhA9EiwAmpHZw-yfX4fv9fa5duRqoVG9RTWPEkqWdlgvjOHnliN9LDH067rpb4jLlxoCrxMQAvD_BwE
Arduino Uno	50mA	5V (or 7-12V)	-

<Hardware2 modules>

Component	Operating Current	Operating Voltage	Buying link
12V Battery	-	12V	https://www.coupang.com/vp/products/118620658?itemId=353973103&vendorItemId=3862505508&src=1042503&spec=10304025&addtag=400&ctag=118620658&lptag=103040251353973103V3862505508&itime=20240717173505&pageType=PRODUCT&pageValue=118620658&wPcid=17146337974793805902600&wRef=www.google.com&wTime=20240717173505
5V Battery	-	5V	https://www.eleparts.co.kr/data/goods_old/data/JBATT-D5-1.pdf
Bread board	-	-	https://www.icbanq.com/P007144873
Light 3	1.2A	12V	https://mechasolution.com/shop/goods/goods_view.php?goodsno=543968&rid=94ae54f0-70e3-4a29-9f01-3ab305ba539d
HC06	30~40mA	3.6V ~ 6V	https://eduino.kr/product/detail.html?product_no=27&nbsrc=adwords_x8nbkw=&gad_source=1&gclid=CjwKCAjwnK60BhA9EiwAmpH2w-yfX4f9fa5duRqoVG9RTWPEkqWdlgvjOHnliN9LDH067rpb4jLxoCrxMQAvD_BwE
Arduino Uno	50mA	5V (or 7-12V)	-

