

User

main.py

microTimer.py

"Start:10", "pause", "resume", "cancel"

Loop: main waits for server response

```
While True:  
    response = socket.recv_string()
```

socket.send\_string('start:10')

Loop: microTimer waits for main requests

```
While True:  
    msg = socket.recv_string()
```

Loop: main waits for server publish when timer ends (or 5 min warning)

```
while True:  
    message = sub.recv_string()
```

"Timer started for {minutes} minutes."

Microservice sends PUB updates to main

```
if not self.canceled:  
    pub_socket.send_string("Timer done!")  
    Or  
    pub_socket.send_string("5 minutes left")
```