## Project Integration Technical Design

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```
procedure FALL_DETECTION(name)
    \vec{v} \leftarrow \texttt{READ\_ACCELEROMETER}
    angu\vec{l}ar\_v \leftarrow \text{READ\_GYROSCOPE}
    if |\vec{v}| \ge threshold and IN_LYING_POSE(angular_v) then
        location \leftarrow \texttt{GET\_LOCATION}
        time \leftarrow \texttt{GET\_TIME}
        event\_type \leftarrow fall
        \mathbf{while} \ no \ wireless \ connection \ \mathbf{do}
            TRY_TO_CONNECT
            SLEEP
                                                                    \trianglerightnon-blocking delay
        end while
        msg \leftarrow \{location, time, event\_type\}
        NOTIFY_THIRD_PARTY(msg)
        INSERT_INTO_DATABASE(msg)
    end if
end procedure
```

```
procedure APP_MAIN

if logged\ in\ then

PROMPT_FOR_CREDENTIALS

end if

data \leftarrow \text{FETCH\_DATA}

repeat

if database\ updated\ then
data \leftarrow \text{FETCH\_DATA}

end if

for all row \in data\ do

RENDER(row)
end for
until forever
end procedure
```