Develoement Phase Sprint 3

Team ID: PNT2022TMID41853

Project Name: Signs with Smart Connectivity for Better Safety

Main.py

```
main.py > main.py  weather.py 1  brain.py

main.py > ...

import brain

mylocation = "Chennai,IN"

APIKEY = "bf4a8d480ee05c00952bf65b78ae826b"

localityInfo = {
    "schools" : {
        "schools" : [True,
        "activeTime" : ["7:00","17:30"] # schools active from 7 AM till 5:30 PM
},
    "hospitalsNearby" : False,
    "usualSpeedLimit" : 40 # in km/hr
}

print(brain.processConditions(mylocation,APIKEV,localityInfo))

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT 3 AS PER OUR PLANNED SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT SCHEDULE

MICRO CONTROLLER CODE WILL BE ADDED IN SPRINT SC
```

weather.py

brain.py

```
main.py • weather.py 1 • brain.py •
Get Started
brain.py > ...
     import weather
     from datetime import datetime as dt
     def processConditions(myLocation,APIKEY,localityInfo):
        weatherData = weather.get(myLocation,APIKEY)
        finalSpeed = localityInfo["usualSpeedLimit"] if "rain" not in weatherData else localityInfo["usualSpeedLimit"]
        finalSpeed - finalSpeed if weatherData["visibility"]>35 else finalSpeed/2
         if(localityInfo["hospitalsNearby"]):
            doNotHonk = True
            if(localityInfo["schools"]["schoolZone"]==False):
               doNotHonk - False
                                                            10
               now = [dt.now().hour,dt.now().minute]
               activeTime = [list(map(int,_.split(":"))) for _sh localityInfo["schools"]["activeTime"]]
               "speed" : finalSpeed,
            "doNotHonk" : doNotHonk
```

Code Flow:

