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????? Flask ?? + SQLite ??????? 210.62.179.209/Data.txt ?????????????????? ?????? Gmail API ??????
?????????Excel ??????????

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- ???Python + Flask
 - ???SQLite (`temperatures.db`)
 - ??????
 - `requests` ????????
 - `schedule` + `threading` ????????
 - `pandas` ?Excel ??
 - `googleapiclient` ?Gmail API ????
 - ??????
 - 1F??
 - ??????
 - ???????
 - ??????
 - ??????
 - ???????
 - 2F???
 - 3F???
-

? ?????

1. ??????????

- ? 10 ??????????????????????
- ?????????????????????? Gmail API ????????
- ?????? (`alert_cooldown_hours`) ??????????

2. ??? (`config.json`)

```

{
  "notifications": {
    "enabled": true,
    "sender": "zfuntw@gmail.com",
    "recipients": ["example@mail.com"],
    "alert_cooldown_hours": 3
  },
  "temperature_settings": {
    "1F": {"enabled": true, "threshold": 10, "defrost_hours": [3, 15]},
    "C": {"enabled": true, "threshold": -5, "defrost_hours": []}
  }
}

```

3. ?????

- / ????????????????
- /history ????????????????
- /export_excel ?????????? Excel
- /settings ????????????????????

4. Gmail API ??

- ?? token.json ????????
- ????? Email ????????

5. ????????????

??? get_temperature_data ???

- ? 10 ????????????
- ????? 4 ????????????

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temperatures

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id	??
timestamp	????
temp_front_room	1F??
temp_shark_fin	?????
temp_raw_material	??????
temp_finished_product	?????
temp_blast_freezer	?????
temp_precooling_room	??????
temp_2f	2F???
temp_3f	3F???

?? ?????

```
python app.py
```

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? <https://temp.zfun.com.tw/login>

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- ????? Gmail API OAuth ????? token.json?
- ?????????????????????????????????
- ????? 210.62.179.209 ??????????????????