

??????

- [HACCP ????????](#)
- [HACCP ????????](#)



- ?????????/??/???????
- ????????? position??

## 5. JSON ??/??

- ?? (/export\_areas)???????????????
- ?? (/import\_areas)??? JSON ???????????????

## ? ??????

- **Area**
  - id? name? is\_active? position
- **CheckItem**
  - id? name? is\_active? position? area\_id
- **Checklist**
  - id? check\_date? period ???/???
  - results?JSON ???????????????????

# HACCP ??????????

? ?????

????????????????? ?/??

? ?????

- ???Flask (Python)
- ???SQLite?haccp.db?
- **ORM**?SQLAlchemy
- ???Jinja2 ??
- ???5022

? ?????

1. ?????????????? /?

- ?????????????/????
- ?????????????????
- ?????????????????????????
- ??? + ? + ?????????????????????

2. ??????? (/history)

- ?????????????
- ?????????????
- ????????????????? JSON ???

3. ????? (/manage\_personnel)

- ???/?/????
- ?????????????????????
- ????????? position??

4. ??????? (/manage\_check\_items)

- ???/?/????

- ??????????????????
- ??
- ??
- ??

## 5. ???????

- ?????Checklist????
- ??
- ?????/???
- ??
- ????? JSON ??

## ? ??????

- **Personnel**
  - id ? name ? title ? is\_active ? notes ? position
- **CheckItem**
  - id ? name ? is\_active
- **Checklist**
  - id ? check\_date ? period
  - personnel\_id ? ?? Personnel
  - results ?JSON ??????????????????