

# Farmosa

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# Function

- 即時蔬果查價

Realtime\_data

- 歷史價格查詢

History\_data

- 當季蔬果推薦

Fruit\_season

- 發文讚嘆水果

User

Post

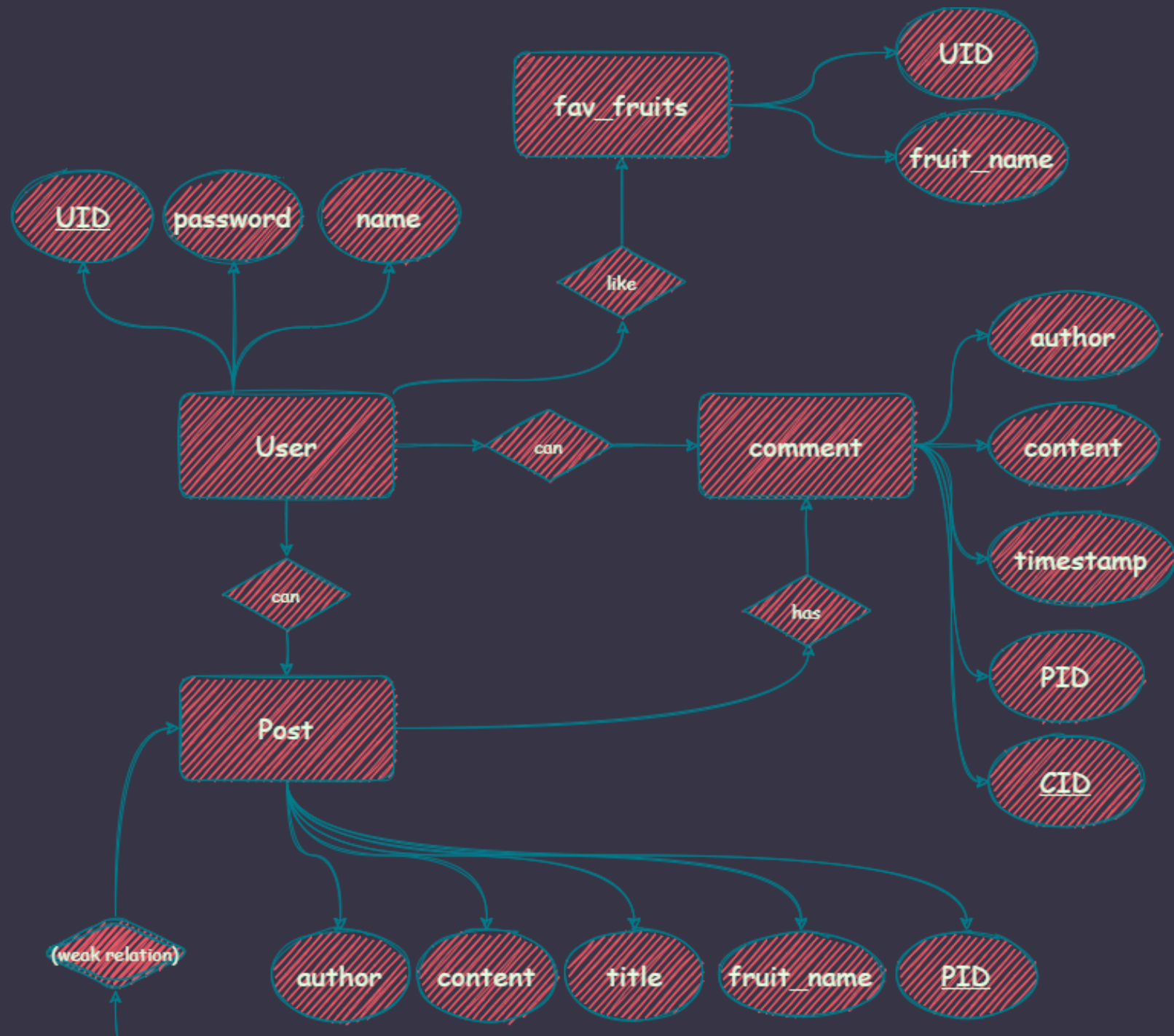
Comment

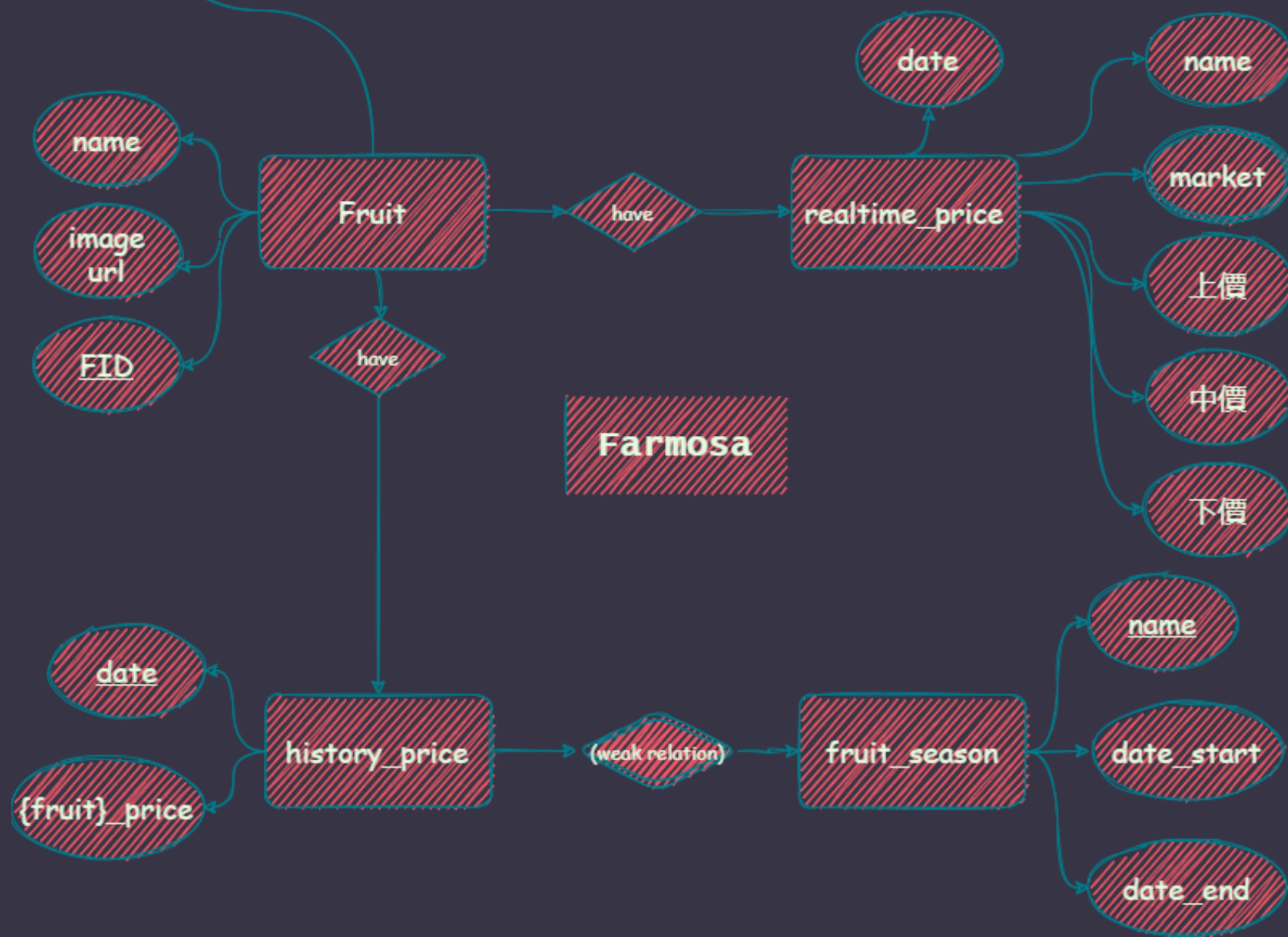
- 喜好水果收藏

Favor\_fruit



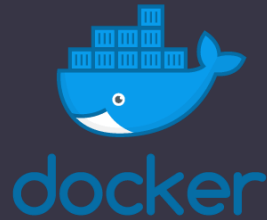
ER diagram





# Development structure

- Environment



- Backend



EXPRESS

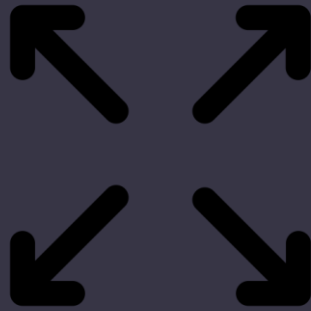
- frontend



# Data



Open data



Extended data



Data about user





Open data

# Realtime price

- Data source: 農產品交易行情(農委會)
- Content: 每日水果市場價格
- Update every day
- Total count: 2000-3000
- How to get?

<https://data.coa.gov.tw/Service/OpenData/FromM/FarmTransData.aspx>

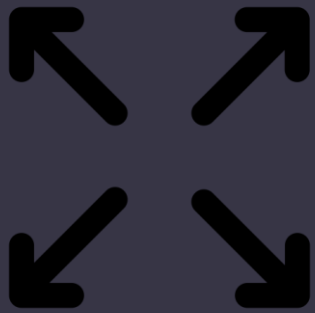
交易日期: "110.06.09",  
種類代碼: "N05",  
作物代號: "42",  
作物名稱: "楊梅",  
市場代號: "104",  
市場名稱: "台北二",  
上價: 40,  
中價: 35,  
下價: 30,  
平均價: 35,  
交易量: 26

# History price

- Source: 農產品產地價格查報系統(農委會)
- Content: 水果產地價格 (2012 - now)
- Update every day
- Total count: 3000-4000
- How to get?

<https://apis.afa.gov.tw/pagepub/AppContentPage.aspx?itemNo=PRI075>

```
時間, 洋蔥, 香蕉, 鳳梨, 蒜頭, 青梅, 木瓜, 柳橙, 椪柑, 蓮霧, 棗子, 新  
2012-01-01, -, 13, -, -, -, -, 12.33, 17.25, 49.33, 53.75, -,  
2012-01-02, -, 12.67, -, -, -, -, 11, 17.92, 51.5, 55, -, -, -,  
2012-01-03, -, 12.83, -, -, -, -, 11.42, 18.08, 51, 55.5, -, -  
2012-01-04, -, 12.83, -, -, -, -, 10.9, 18.17, 51.33, 53.25,  
2012-01-05, -, 13, -, -, -, -, 11.33, 19.33, 51.33, 54, -, -, -  
2012-01-06, -, 13, -, -, -, -, 11.33, 20.25, 53.33, 53.5, -, -  
2012-01-07, -, 12.67, -, -, -, -, 11.17, 21.8, 56, 53.75, -, -  
2012-01-08, -, 12.67, -, -, -, -, 11.17, 22.1, 56, 53, -, -, -  
2012-01-09, -, 12.5, -, -, -, -, 10.4, 22.6, 53, 55, -, -, -
```



Extended data

# Fruit image

| Field | Type         | Null | Key | Default | Extra          |
|-------|--------------|------|-----|---------|----------------|
| ID    | int          | NO   | PRI | NULL    | auto_increment |
| name  | varchar(20)  | YES  |     | NULL    |                |
| image | varchar(128) | YES  |     | NULL    |                |



History table



Web crawler



Image

# Fruit\_season

| Field        | Type        | Null | Key | Default | Extra |
|--------------|-------------|------|-----|---------|-------|
| fruit        | varchar(20) | NO   | PRI | NULL    |       |
| season_start | date        | YES  |     | NULL    |       |
| season_end   | date        | YES  |     | NULL    |       |



history table



trend



season

Data about user

# User

- Register
- Login
- Logout

# Post

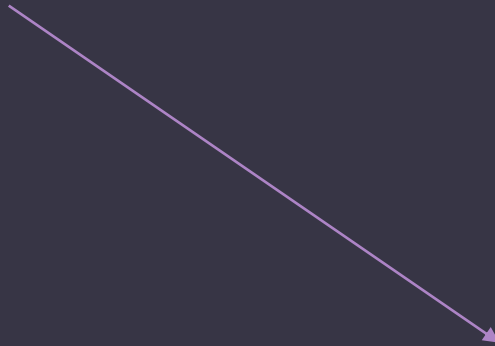
- Reference key: User ID
- delete on cascade

# Favor\_fruit

- Reference key: User ID
- delete on cascade

# Comment

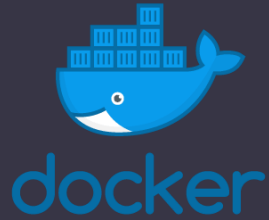
- Reference key: Post ID
- delete on cascade





What we learn

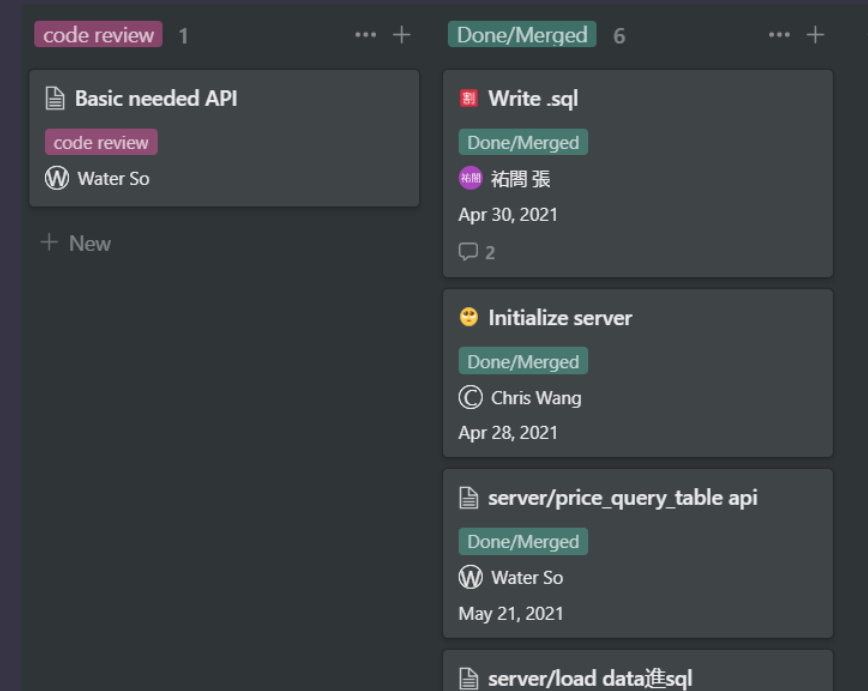
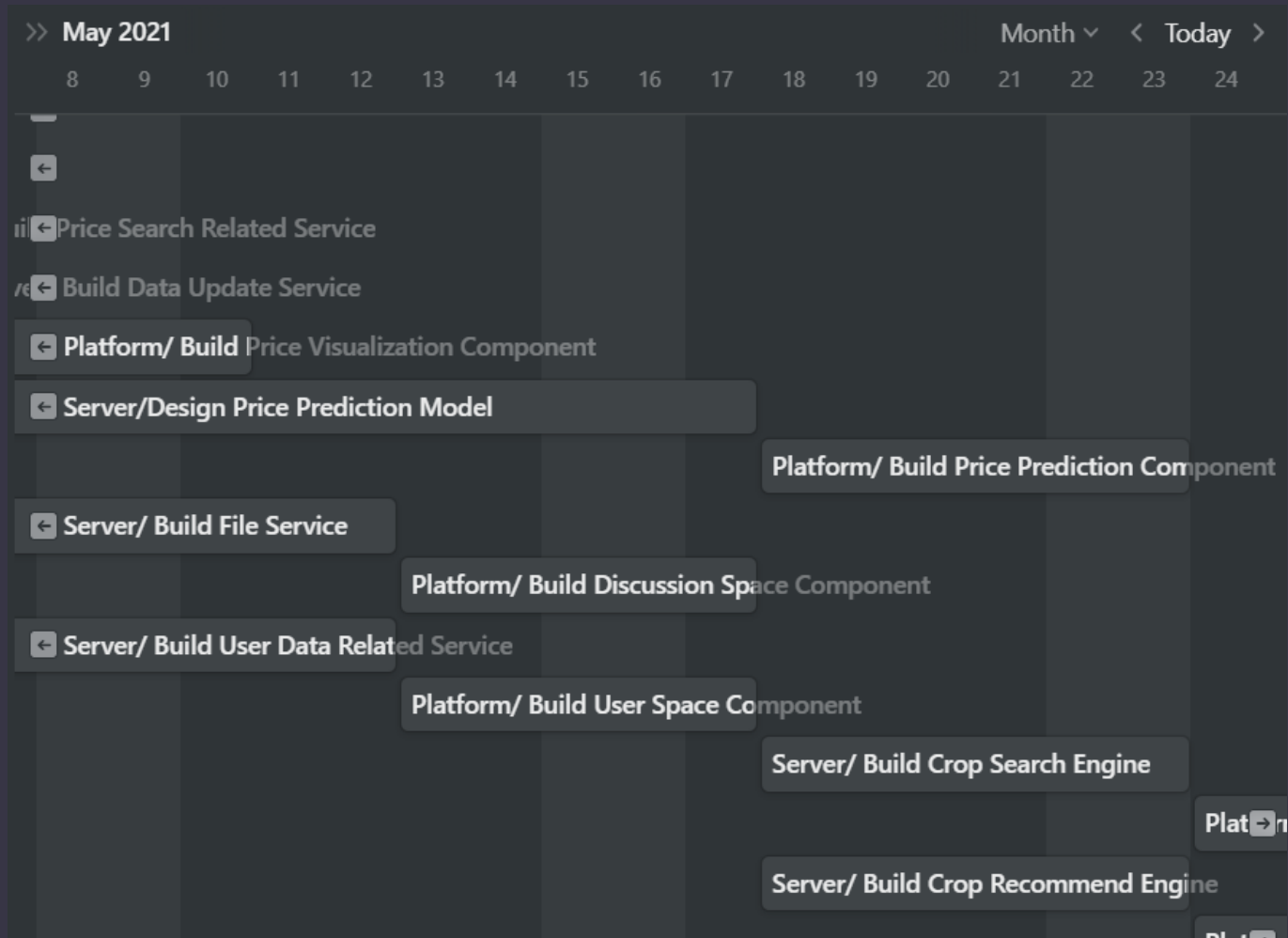
# Technique




**EXPRESS**




# Collaboration





# Version management

 Farmosa2021 / farmosa-server Private


[Code](#) [Issues](#) [Pull requests](#) [Actions](#)





















 dev ▼

 7 branches

 0 tags

This branch is 62 commits ahead of main.

 WaterSo0910 fruit bug fix

| Your branches     |                                       |        |                                  |   |
|-------------------|---------------------------------------|--------|----------------------------------|---|
| dev               | Updated 12 hours ago by WaterSo0910   | 0   62 | <a href="#">New pull request</a> |       |
| favor_api         | Updated yesterday by WaterSo0910      | 0   38 | #11 <a href="#">Merged</a>       |       |
| favor_function    | Updated yesterday by WaterSo0910      | 0   36 | #10 <a href="#">Merged</a>       |       |
| fruit_basic_table | Updated 2 days ago by WaterSo0910     | 0   28 | #8 <a href="#">Merged</a>        |       |
| add_post_api      | Updated 3 days ago by Chr1slnTheHouse | 0   21 | #7 <a href="#">Merged</a>        |       |
| Active branches   |                                       |        |                                  |   |
| dev               | Updated 12 hours ago by WaterSo0910   | 0   62 | <a href="#">New pull request</a> |   |
| season            | Updated 13 hours ago by YuHo-chang    | 0   54 | <a href="#">New pull request</a> |   |
| favor_api         | Updated yesterday by WaterSo0910      | 0   38 | #11 <a href="#">Merged</a>       |   |
| favor_function    | Updated yesterday by WaterSo0910      | 0   36 | #10 <a href="#">Merged</a>       |   |
| fruit_basic_table | Updated 2 days ago by WaterSo0910     | 0   28 | #8 <a href="#">Merged</a>        |   |

# Communication

## User

| 功能       | Name              | Tags   | request              | response          | C |
|----------|-------------------|--------|----------------------|-------------------|---|
| Search   | /users            | GET    | None                 | all users         | ✓ |
| Search   | /users/:id        | GET    | None                 | user where id=:id | ✓ |
| register | /users            | POST   | username<br>password | success/error     | ✓ |
| login    | /users/auth       | POST   | username<br>password | success/error     | ✓ |
| Search   | /users/:uid/favor | GET    | :uid                 |                   | ✓ |
| create   | /users/:uid/favor | POST   | :uid<br>fruit        |                   | ✓ |
| delete   | /users/:uid/favor | DELETE | :uid<br>fruit        | success/error     | ✓ |

## Post

| 功能     | Name                    | Tags | request                             | response                    | C |
|--------|-------------------------|------|-------------------------------------|-----------------------------|---|
| Search | /posts                  | GET  | None                                | all posts                   | ✓ |
| Create | /posts                  | POST | author<br>title<br>fruit<br>content |                             | ✓ |
| Search | /posts/fruits:fruitName | GET  | None                                | post where fruit=:fruitName | ✓ |
| Search | /posts/users:userName   | GET  | None                                | post where user=:userName   | ✓ |
| Search | /posts/:id              | GET  | None                                | post where pid=:id          | ✓ |
| Update | /posts/:id              | PUT  | author<br>title<br>fruit<br>content |                             | ✓ |

## Fruit

| 功能     | Name                     | Tags | request         | response  | C |
|--------|--------------------------|------|-----------------|---|---|
| Search | /fruits                  | GET  |                 | all images-fruits data  | ✓ |
| Search | /fruits/images           | POST | fruit           | all images-fruits<br>data(name=:fruitName)  | ✓ |
| Search | /fruits/realtime/sub     | POST | fruit<br>market | data: all realtime data (fruit<br>string include :fruitName)<br>result: success/error | ✓ |
| Search | /fruits/realtime         | POST | fruit<br>market | data: all realtime data (fruit=<br>:fruitName)<br>result: success/error               | ✓ |
| Search | /fruits/history/sub      | POST | fruit           | data: all history data (fruit<br>string include :fruitName)<br>result: success/error  | ✓ |
| Search | /fruits/history          | POST | fruit           | data: all history data<br>(fruit=:fruitName)<br>6-3-1-season<br>result: success/error | ✓ |
| Search | /fruits/realtime/markets | GET  |                 | data: all markets<br>result: success/error  | ✓ |
| Search | /fruits/history/season   | POST | fruit           | data: season_start,<br>season_end<br>result: success/error                            | ✓ |

## Comment

| 功能     | Name                      | Tags | request           | response                          | C |
|--------|---------------------------|------|-------------------|-----------------------------------|---|
| Search | /posts/:pid/comments      | GET  | PID               | all comment of a<br>post(pid=:id) | ✓ |
| Create | /posts/:pid/comments      | POST | author<br>content |                                   | ✓ |
| Update | /posts/:pid/comments/:cid | PUT  | author<br>content |                                   | ✓ |



Demo



Q & A