**Django Demo Project**

* **Requirement Identification**

Purpose:

Sharing stock information to individual investor.

Target Audience:

Anyone who interests in Taiwan’s capital market.

Produce Period:

2 months (2021/3-2021/4)

* **Specification**

Website Structure:

Home Page

Stock Info.

Comparison

Membership

Basic Info

Dividend

Chips Analyze

Index

Profile

Function:

Model:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table Name | Fields | Data Type | Data | Primary Key | Foreign Key |
| StockBasic | 1. symbol | str | 1101 |  |  |
| 1. name | str | 台泥 |  |  |
| 1. industry | str | 水泥工業 |  |  |
| 1. capital | float | 594 |  |  |
| 1. listed\_date | datetime | 1962-02-09 |  |  |
| Source: https://mops.twse.com.tw/mops/web/t05st03 | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table Name | Fields | Data Type | Data | Primary Key | Foreign Key |
| StockPrice | 1. date | datetime | 2021-02-22 |  |  |
| 1. symbol | int | 1101 |  |  |
| 1. open | float | 41.7 |  |  |
| 1. high | float | 42.1 |  |  |
| 1. low | float | 41.55 |  |  |
| 1. close | float | 41.8 |  |  |
| 1. volume | Int | 979301 |  |  |
| 1. shares | int | 23412 |  |  |
| 1. pe | float | 9.95 |  |  |
| 1. pb | float | 1.28 |  |  |
| 1. yield | float | 7.18 |  |  |
| Source: https://www.twse.com.tw/zh/page/trading/exchange/STOCK\_DAY.html | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table Name | Fields | Data Type | Data | Primary Key | Foreign Key |
| Chip | 1. date | datetime | 2020-03-20 |  |  |
| 1. symbol | int | 1101 |  |  |
| 1. margin\_purchase | float | 1161 |  |  |
| 1. short\_sale | float | 31 |  |  |
| 1. foreign | float | -8312 |  |  |
| 1. trust | float | -109 |  |  |
| 1. dealer | float | -329 |  |  |
| Source:  1. https://www.twse.com.tw/zh/page/trading/exchange/MI\_MARGN.html  2. https://www.twse.com.tw/zh/page/trading/fund/T86.html | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table Name | Fields | Data Type | Data | Primary Key | Foreign Key |
| Dividend | 1. symbol | int | 1101 |  |  |
| 1. announce | datetime | 2020-03-20 |  |  |
| 1. ex\_dividend\_cash | datetime | 2020-08-12 |  |  |
| 1. ex\_dividend\_right | float | Null |  |  |
| 1. cash | float | 2.5 |  |  |
| 1. right | float | Null |  |  |
| Source :   1. https://mops.twse.com.tw/mops/web/t108sb27 | | | | | |

Templates:

- base.html

- home.html

/stock/basic.html

/stock/dividend.html

/stock/chip.html

/comparison/index.html

/account/profile.html

Views:

WireFrame ShowBox

首頁

股票 – 基本資料

股票 – 配息紀錄

股票 – 籌碼分析

篩選

Task

1. base template
2. login/register form
3. connect with google and facebook
4. build model with test data
5. basic.html
6. dividend.html
7. chip.html
8. comparison.html
9. permission
10. set up crawler
11. test

unsolved problems

1. design one page stock info
2. redirect tests

beginner topics

1. user registration

advanced topics

1. all-auth modify form content
2. unique warning message of membership registration

Solved Problems

1. showing first error message of form
2. admin save, add, delete function
3. customize error message
4. customize password validation
5. custom user model
6. custom user register
7. social-auth facebook
8. social-auth google

Optimization

1. register form error message method.