Home page
1. Login as a user

   A login page, assign each user a user-id (unique,store as an primary key in the user entity ) ask to enter the username and user key for future login.
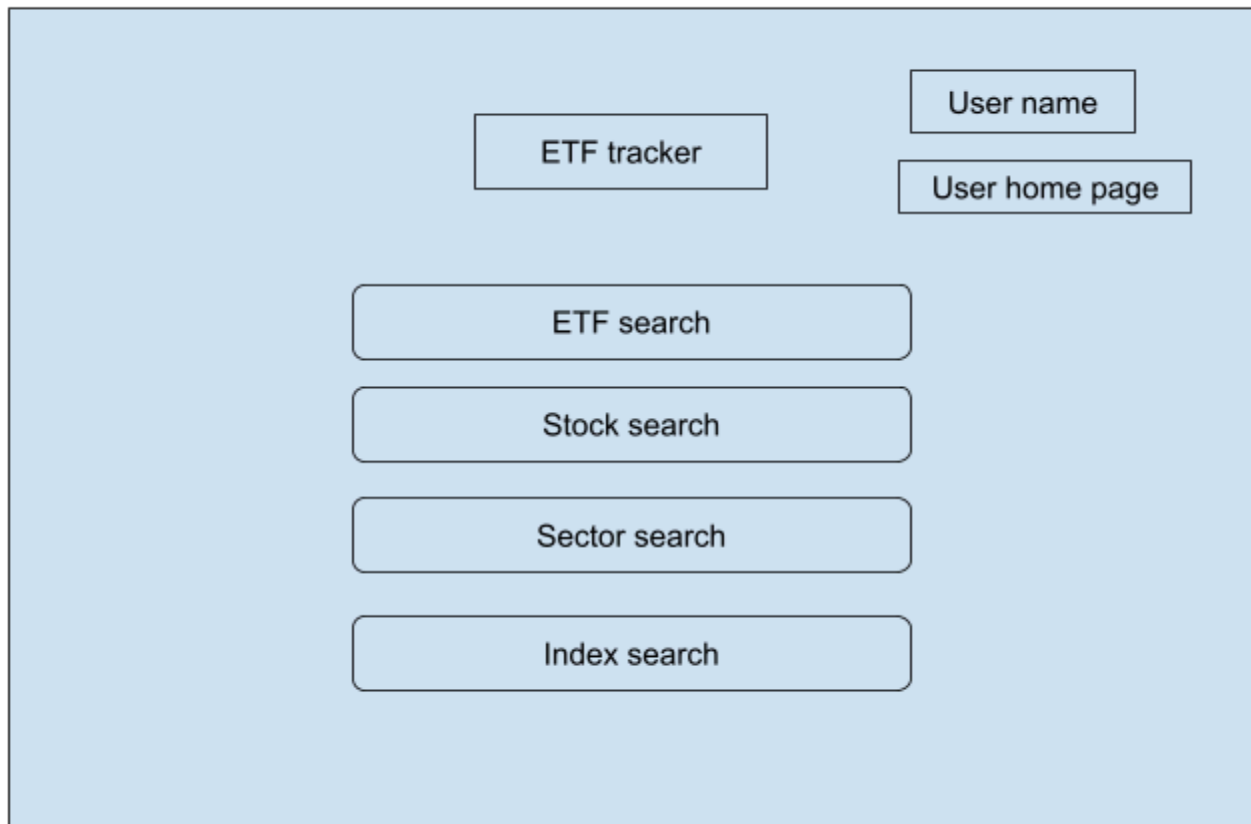
2. User interest etf
   a. Create a "like" button or create a page after login to let the user to store the ETF they are interested in.

3. Recommendation algorithm
   a. According to the etf in the user interest entity, base on the ETF sector, ETF stock（similar ETF that has similar stock holding, ETF funding company, give out three recommend ETFs
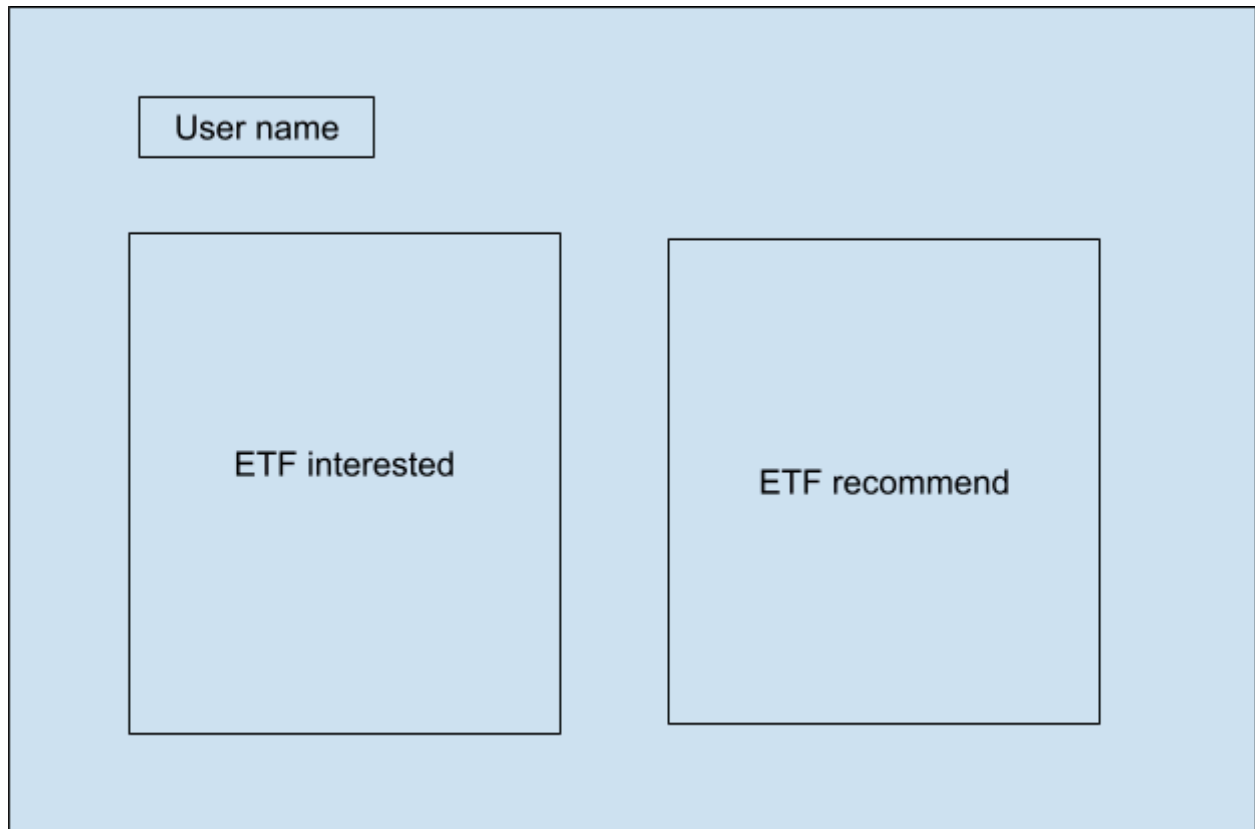
   还需要一个login page

After login

| ETF tracker | | User name |
| | | User home page |

ETF search

Stock search

Sector search

Index search

Home page

Main page
Four "enter tab"

| ETF tracker | | Login/sign in |

| ETF search |

| Stock search |

| Sector search |

| Index search |

1. ETF search by ETF name and ticker:

| input | Page 1<br>Basic information | Page 2<br>Sector | Page 3<br>Included stock |
|---|---|---|---|
| **enter the ETF ticker /common name** | Return the basic information of the ETF ( name, Inception_date, Aum, Number of stock included, management fee) *all information in the ETF entities | ETF_has_sector: Sector name, sector weight<br><br>Fund has ETF & Fund Family: Fund Family name head quarters, number_of_funds | Return top 30 (by weight) stock included in the ETF (Each stock is one row, including the all information in the Stock entity ) by weight descending. |

2. Stock search

| Input | Page 1: basic information | Page 2 : The ETFs that contain this stock |
|---|---|---|
| **Enter the stock ticker/common name** | Stock entity： Stock name, stock ticker,  ipo_date, sector_name (find sector id and link to Sector entity)<br><br>Stock in index： Index name(find index_id and link to Market_index entity ), weight | Stock in ETF: Etf ticker, (ETF entity) ETF name, stock weight |

3.   Sector search

| Input | Page1: basic information | Page 2: ETF related to this sector | Page 3: Stocks included in this sector |
|---|---|---|---|
| **Enter the sector name (**下拉面板选择，不能自己输入） | Sector entity: Sector name 1, 3, 5 annualized return The number of stocks include | ETF_has Sector: ETF name, sector weight | Stocks： stock_name<br><br>50 stocks that belongs to this sector |

4.   Index search

| Input | Page 1: basic information | Page 2: stock related to the market index |
|---|---|---|
| Enter the market index ticker/common name | Market Index: Index_name Ticker Number_of_contributes Launch_date | stock_in _index: Stock name weight |

| | base value<br><span style="color:blue">Index category:</span><br>category_name | |
|---|---|---|