# 1. Introduction

## 1.1 Purpose

stockbroker service 1.1.1.220307\_base

## 1.2 Document Conventions

In this document, the marking style is defined as follow:

- **class**

- *function*

- param

## 1.3 Product Scope

Provide a simple stock querying and trading system.

## 1.4 References

[1] <https://github.com/rick4470/IEEE-SRS-Tempate>

[2] <https://docs.djangoproject.com/>

[3] http://baostock.com/baostock/index.php

# 2. Overall Description

## 2.1 Product Functions

Support stockbroker service based on web service includes user system, stock virtual trading, stock history querying.

## 2.2 User Characteristics

The stock holder who could trade the stock and query the information.

## 2.3 Operating Environment

Windows with web service and MariaDB.

## 2.4 User Documentation

If the user does not have an account, the service would register automatically for the user. After that, the user could use the visual app easily.

# 3. Software Implement

## 3.1 User implement

Class **Usr** use name, password, and *login* to log in, use balance\_Yuan, balance\_JnF and *buy\_stock*, *sell\_stock* to trade the stock, use stock\_list, which this system supports and *get\_stock\_info* to query the information of the stock. Only the user needs to do is to key in the name and password which would be transport to Class **Usr**.

## 3.2 Software implement

Software use the architecture Django and pattern MVC to implement the system. When the user accesses the web page, the html file would return a post to view component, then the view component would call the class **Controller** of controller component to operate the data processing in class **Usr** and **Stock** in model component. After that, the instance of the class **Controller** would create the view parameters that would be used to create the html file by view component which respond to the user’s access.

# 4. System Features

Use SR technology whenever possible such as Django architecture, MVC pattern, inheritance of classes, 3rd party service and so on.