Product Requirements Document
For Unknown Information Collector

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1 Purpose and Scope

Nowadays there are various sources of information.

Light sources, such as RenRen, Sina Micro Blog (Weibo) produce news all the time. Many users are using one, or all, of them, then they need to open one or more webpages in order to get all the news feeds.

Moreover, some heavey sources like NetEase, Yahoo!, or some other individual blogs may produce information from time to time. Readers may not be willing to refresh them again and again to get the latest article.

Therefore, an information collector is in great demand, in order to simplify the flow of getting the latest information. Users can find what they want in just one place.

Technically, a collector which can be custom-made and widened is required, for it's inevitable that different users ask for different information. Even more, if the collector can be capable to suggest subscribers articles which they may interested in, they are more sticky to this collector in all probability.

2 Target Demographics

Consumers, who use many Social Network Services, or subscribe many blogs and web portals are for onal is collector is designed.

3 Product Overview

3.1 APIs

Open/Close APIs that can provide collected information to other applications.

3.2 Website

Consumers can sign in with their accounts, and customize which sources they are desirous to. Then they can get exactly what they want each time they sign in.

3.3 Client

Client software, or mobile applications, is needed so that consumers are able to get information wherever they are. Offline and archieve mode are also required for that consumers may not have network access on their way.

4 Requirements

4.1 Function

4.1.1 Collection

Get the latest information of all the sources, including public accessable webpages and consumers' private information.

Portal Website   A time-based job that get articles from NetEase, Sina or other portals.

Social Network Society   A time-based job that get feeds from RenRen, WeBo or other SNS.

4.1.2 Classification

Systematize the information to different categories for that consumers can select which kind they want to subscribe.

4.1.3 Recommendation

Suggest consumers information that they may interested in.

4.1.4 Share

For users that linked their SNS accounts to website can share some links to SNS.

4.2 Usability

4.2.1 Configuration

Consumers can configure which kind of information they want to read.

4.2.2 Internationalization

Supporting consumers from all over the world and can give them any information they want.

4.3 Technic

4.3.1 Security

Consumers' configuration and private information shall be secured.

4.3.2 Language

Python is the only choice for us.

4.3.3 Environment

Server shall run on POSIX machine like Linux. Clients shall run on their own platform.

5 User Case Diagram

For the basic use, the work flow looks like Figure 1.

6 Priority

Features taged Core means it must be implemented. After them the work will focus on features from High to Low.

Feature	Core	Priority
Fetch Information	$\star$	High
Configure Subscribe List	$\star$	High
APIs	$\star$	High
Website		High
Client Application		Middle
Mobile Application		Low
Internationalization		Low

Table 1: Priority

7 Timeline

The main work flow is like this.

Progress	Start	Deadline
Design	Sept. 25th	Oct. 12th
Collection Prototype	Oct. 13th	Oct. 21st
Classification Prototype	Oct. 13th	Oct. 21st
Prototype Intergration	Oct. 16th	Oct. 25th
Website	Oct. 16th	Oct. 31st
Clients	TBD	TBD

Table 2: Timeline

8 Evaluation

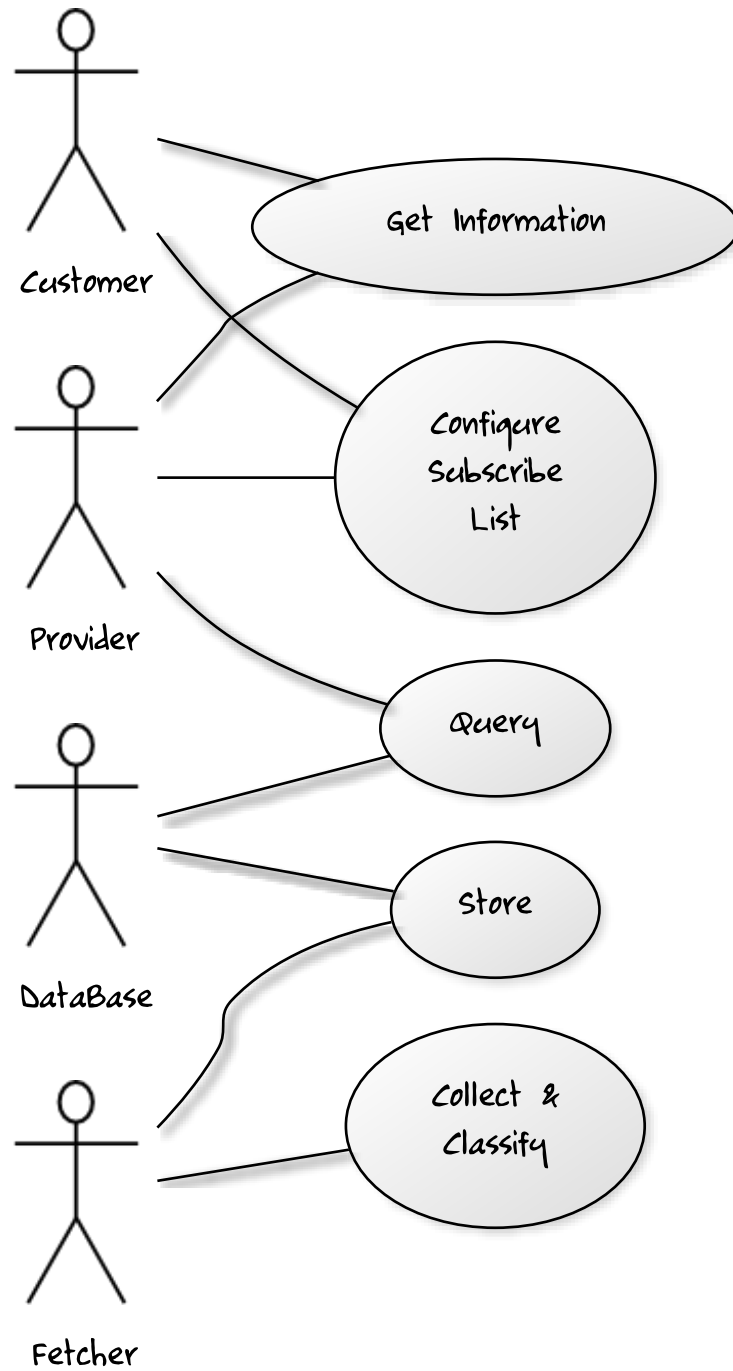In order to check whether this collector really works, these tests will be done.

Figure 1: Basic User Case

8.1   Core

Fetch articles from web portal and other website.

Fetch private information of specific consumer.

Configure subscribe list.

8.2   Website

Friendly UI.

Anti XSS, CSRF and SQL injection attack.