

Uknow InfoHub

Production Requirement Documentation

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目录

1	Introduction	1
1.1	Background	1
1.1.1	Complexity of Information Resources	1
1.1.2	Analysis of Existing Information Portals	2
1.2	Purposes	3
1.3	Future Works	3
2	Documentation Requirements	3
2.1	License	3
2.1.1	Registration License	3
2.1.2	Disclaimers	4
2.1.3	Notice to Right Holders	4
2.2	Help Manual	5
2.2.1	Basic Use of Our Service	5
2.2.2	API Documentation	5

1 Introduction

1.1 Background

The use of social networks spread rapidly. It became a common sense that information is collected through online information portal. This product mainly aims to help users collect useful information as well as manage their personal information in convenience.

1.1.1 Complexity of Information Resources

Nowadays there are various sources of information. Light-weight sources, such as RenRen, Sina Micro Blog (Weibo) produce news all the time. An ordinary user would use many of them, then he needs to open several different web pages, or different phone applications, in order to get all the news feeds.

Moreover, those heavy-weight sources like NetEase, Yahoo!, or individual blogs may produce information from time to time. Readers may not be willing to consecutively

refresh them to get the latest article, which will be both time-consuming and bandwidth-consuming.

According to the pre-survey we made, most social network users are facing this situation that the complexity of information resources is causing them problems.

Quantity

The large quantity of web portals, social networks makes users tired of changing and choosing between web pages or applications. Users tend to only focus on specific types of information, but will suffer from the large quantity of the information presented to them.

Redundancy

It is a waste of time for users to acquire similar information through different portals. Users is long for a tool to automatically, intelligently filter the repeated information from different sources.

Therefore, an information collector with corresponding filter is in great demand, in order to simplify the flow of getting the latest information. Users can browse their favourite for one time in just one place.

It is an obvious conclusion that users are in badly needed to one browsing-friendly page that simply contains all and exactly all the information they need.

1.1.2 Analysis of Existing Information Portals

In this section, the possibility of combining information resources will be illustrated. Let's first take Weibo, Renren and Zhihu, which are three major information sources of different types, as examples.

1. User Interface

It is not hard to find out that the user interfaces designed by different websites do not distinguish each other too much. There are considerably parts that follow certain similar format. The interfaces are mainly divided into four categories:

- (a) main interfaces
- (b) personal interface
- (c) managing and editing interface
- (d) other individual functions

2. Main Interface

The main interface is the page that provides the most significant and useful information. Users mainly receive information through this page, therefore it is the information sources we should be working on.

As we can see in the following figures, the main interfaces' features are listed as followed:

- (a) Information items are listed and presented by vertical blocks.(figure 1, figure 2, figure 3)
- (b) The item-block consists of the author, the subtitle, the content and the picture part.(figure 1, figure 2)

Since the speciality of the format that the interfaces are following can be easily caught, it provides the great possibility to combine those pages together.

1.2 Purposes

Uknow InfoHub is designed according to the needs of users. It will provide users with a entirely new experience in gathering information – by using only one information collector. Technically, a collector which can be customized and widened is required, for it's inevitable that different users ask for different classification information. Even more, if the collector contains a recommendation system, which can be capable to suggest subscribers articles they may interested in, users will be more sticky to this collector in all probability.

1.3 Future Works

Uknow InfoHub shall provide extensible interfaces. The Open API makes it possible to expand different functions based on this collector.

For instance, a Text-to-Speech system can be used upon the collector, so that users will be able to hear the information instead of browsing. Meanwhile, based on the users behavior, a recommendation system could be most valuable to users that recommend stuff which is meaningful to individual users. An Ad-targeting system can also be built directly on this.

This collector should provide the easy functionality to be used on various operating systems as well as various devices, such as Android, iOS, Linux, Windows.

2 Documentation Requirements

2.1 License

2.1.1 Registration License

In order to provide better service to our users, users shall claim to agree our registration license when applying for an account. The registration license shall cover the following parts:

1. Rules on using our service, including the constrains on using, transferring the account, the limited use of the information we provided.
2. The privacy on the personal information provided by users in registration.
3. User shall understand and accept the service provided by Uknow before registration, and take full responsibilities for any kind of abuse of our service.

2.1.2 Disclaimers

In order to avoid unnecessary conflicts with our users, users must sign our disclaimers before using the information collector of Uknow InfoHub. The disclaimer shall cover the following contents:

1. Uknow is not responsible for, and expressly disclaims all liability for, damages of any kind arising out of use, reference to, or reliance on any information provided by Uknow.
2. While the information provided by Ukonw is periodically updated, no guarantee is given that the information is correct, complete, and up-to-date.
3. Though Uknow might provide links or direct data from other Internet Resources, Uknow is not responsible for any kind of damages arising out of visit to those sites.
4. Uknow doesn't own and shall not preserve copyright for any information provided in our service, but will show the user the origin of those information. Any kind of offence to the copyright of the original author of the information provided by us is seen as a direct offence to the author.
5. Though Uknow might contain advertisements or other types of endorsement for products or services from third-party companies, Uknow has not investigated and does not assure the fidelity of the claims by any advertiser. Product information is based solely on material received from suppliers.

2.1.3 Notice to Right Holders

Uknow InfoHub developer group understand and respect the right of any individual or entity. Thus, a notice to right holders must be provided on our website for right holders to read and get instructions on enforcement of their corresponding rights related to the behavior or the services provided by Uknow InfoHub developer group. The notice shall cover the following parts:

1. Copyright. While Uknow InfoHub provides simple information aggregation for our terminal users, Uknow respects and does not offend the copyright of the original author of the information presented by us.
2. Privacy. Uknow might fetch and parse information from various sources, but with the authority of our service users. Uknow will not initiatives collect private data of any individual or entity.
3. Use of our service. All users of our services are immediately granted the right of using our service according to the user agreement right after registration.

2.2 Help Manual

2.2.1 Basic Use of Our Service

For the purpose of getting users quickly involved in our product, an instruction manual on the basic use of our service is necessary. This instruction manual shall contain the following parts:

1. The functionality of our service, and the instructions of using them on our clients.
2. Examples on the use of our key functionality, including tab-like information classification, auto-tagging, etc.
3. Precautions and attentions that our users should be aware of.

2.2.2 API Documentation

Since Uknow InfoHub provides an extensible and flexible structure, allowing developers to create their own plugins to extend the functionalities of Uknow, an open API documentation is needed for potential developers to read and develop their plugins for our platform accordingly. Meanwhile, as the scale of this project grows, there will be inevitable difficulty in its maintainance and update. Therefore, an detailed API documentation of internal classes and interfaces is also necessary for the everlasting development of this project.

The API documentation of Uknow should be presented in good-looking style, in cross-platform formats(HTML, pdf, etc.), and be easy to refer to. The names of classes and terms in the documentation should be well referenced to its definition, providing readers with better readability.