Design and Implementation of Parent Counselors Based on Internet Technology

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Abstract

This article proposes a targeted solution to the problem of parents in today's society to help students learn hard. Parents can further understand the psychology of students through online communication and offline learning, effectively adjust their own and students' mentality, and provide effective counseling for students' learning. For parental counselors. This article mainly introduces the design points and technical implementation of the parent counselor.

Keywords

1. Introduction

In October 2017, a news that parents had accompanied their children to write homework and caused cerebral hemorrhage ignited the entire circle of friends. The major social networking platforms were all in the first place for parents to teach their children to write homework. Various articles similar to "The old lady is afraid that she has created a shackle in her last life, and she is accompanying her children to do homework and sputum sputum" has spread all over the world, with a click-through rate of more than 2.63 million, and about "parents accompanying children to write homework cerebral hemorrhage". The search is also as high as 401,000 . However, while we are watching the horrors of these parents, should we also consider the reasons for these things happening?

Most parents think that the teachers have too many homework assignments, and the students can't complete them independently. The teacher's criticism of the students' homework is also a criticism of the parents' dereliction of duty, which adds to the parents' anxiety. The teacher thinks that the homework for tutoring children is originally the responsibility of the parents. If they can't control their emotions, then the parents' ability is insufficient.

The parent counselor will conduct web-based communication and physical training classes to explain the child's psychology and teach the correct interpretation skills, as well as the mentality adjustment and correct practices in the face of the child's inability to complete the homework. At the same time, parents are divided into different age groups to let them understand the learning style and learning content of contemporary students, and provide a platform for parents to communicate.

2. Design points

On today's Internet, there are countless apps for students to answer questions like "Small Search Questions", but most of them only provide an answer and a problem-solving process. They can't communicate face-to-face with students, and fundamentally answer questions for students. In daily life, parents are more and more keen to send their children to the evening classes. They don't have to teach their children personally, they can also supervise their children's learning. However, according to the survey, most parents are more willing to personally tutor their children's learning, but they are unable to do so because of their abilities and limited time.

Parents are the best teachers for children. Every move made by parents will be the target of children's imitation. It is not only in the process of tutoring children, but also in the daily life of the children. Parents should also learn to manage themselves. Behavior and emotions. Parent counselors are mainly aimed at parents' counseling problems for children's homework, and to prevent the recurrence of life-threatening problems such as sudden brain bleeding or heart bypass due to parents' homework.

2.1 Parent counselors mainly have the following services:

1 Regularly explain to parents the psychology of children of different ages.

2 Regularly teach parents how to communicate with children of different ages.

3 Regularly teach parents the way and mentality of coaching assignments.

4 experts and parents one-on-one exchanges.

5 Provide a platform for parents to communicate.

6 Provide learning methods and content for contemporary students.

7 online questions and answers.

Among the 7 services of the Parent Counselor, the first 4 are conducted in the form of training courses. The purpose is to better communicate face to face and experience the mood of the children in the cram school, so that they can communicate better in the future. And the age of the child is the psychological age, we will provide a psychological age test table for parents and children, in order to better understand the situation of the two, give more appropriate advice when problems occur.

3. Innovation point analysis

After the team's preliminary investigation, it was found that there is no similar career as a parent counselor in the market. On the Internet, there are only a few websites that provide professional parenting information or provide solutions for student work.

3.1 Compared to today's education market, parent counselors will have the following innovations:

1 Parent counselors are not traditional tutoring classes. His consumer groups are parents rather than students.

2 Parent counselors have a variety of ways, not limited to the form of ordinary tutoring classes, and open online platforms in the form of APP, webpage, and WeChat public account.

3 Parental counselors are different from other parenting platforms and are mainly used to teach some parenting knowledge. Based on the original parenting platform, the parent counselor added how to get along with the child and interpret the child's psychology.

3.2 Parental counselors have the following characteristics:

1. Form diversity

With the development of the information age, people are increasingly inseparable from the network. Therefore, parent counselors are not limited to offline counseling training, and online communication has been opened. In addition to small class counseling, you can also choose one-on-one tutoring according to your needs.

2. Service specific

Before starting the training, we will provide a psychoanalytic survey report to parents and children, and analyze their psychological age and potential personality in order to better provide services later. Moreover, we will provide users with targeted training programs based on different psychological conditions.

3.24 Hours customer service online

We will make strict requirements for our staff, ensure that every customer service is certified (Psychological Counselor Level 3), and regular training, and shift duty, to ensure that 24 hours an hour someone online to answer questions or psychology for users Soothing and so on.

4. Technical level and application range

4.1 Database technology

The database used in the project is open source database MySQL. MySQL is the most popular relational database management system. MySQL is one of the best RDBMS (Relational Database Management System) application software for WEB applications.MySQL is an associative database management system that stores data in separate tables instead of putting all the data in a large repository, which increases speed and flexibility. The SQL language used by MySQL is the most commonly used standardized language for accessing databases. MySQL software adopts a dual authorization policy (this term "authorization policy"), which is divided into community version and commercial version. Due to its small size, fast speed, low total cost of ownership, especially open source, it is generally small and medium-sized. Website development has chosen MySQL as the website database.

4.2 Platform architecture

The platform architecture adopts cloud technology and adopts cloud service storage.

Elastic Compute Service (ECS) is a simple, efficient, and scalable computing service that enables you to quickly build more stable and secure applications. Improve operational efficiency, reduce IT costs, and focus on core business innovation. A cloud computing server (also known as a cloud server or a cloud host) is a host product in the cloud computing service system. This product effectively solves the problems of traditional physical renting and VPS services, and is difficult to manage and has weak business scalability. Defects. The cloud server rental price is lower than the traditional physical server lease and there is no deposit required. With rapid provisioning and deployment capabilities, users can open services in real time after submitting a cloud host rental application. The service supports smooth expansion. When the user's service scale is expanded, service expansion can be realized quickly.

4.3 Web crawler technology

Web crawler is a program that automatically extracts web pages. It downloads web pages from the World Wide Web for search engines and is an important component of search engines. The traditional crawler starts from the URL of one or several initial webpages and obtains the URL on the initial webpage. During the process of crawling the webpage, the new URL is continuously extracted from the current page into the queue until a certain stop condition of the system is satisfied. The focus of the crawler workflow is more complex, you need to filter the topic-independent links according to certain web analytics algorithms, keep the useful links and put them into the URL queue waiting to be crawled. Then, it will select the URL of the web page to be crawled from the queue according to a certain search strategy, and repeat the above process until it reaches a certain condition of the system. In addition, all web pages crawled by the crawler will be stored by the system, analyzed, filtered, and indexed for later query and retrieval. For focused crawlers, the analysis results obtained by this process may also be Give feedback and guidance to the subsequent crawling process.

Use web crawler technology to set relevant search strategies and filter out non-conforming web pages. Visit third-party webpages, including brand official websites, movie video websites, etc., by classifying and matching the content of third-party webpages by setting relevant regular expressions and XPath constraints, and obtaining corresponding fashion new product information, and at the same time The database system is updated accordingly, expanding our data capacity, updating the information on the APP, providing users with up-to-date information on new products, and enabling cost reduction.
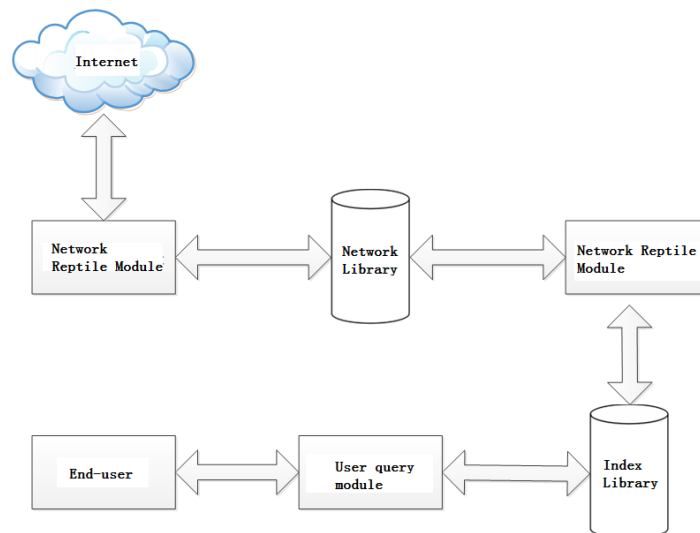
Fig 1 Basic flow chart of web crawler technology

4.4 Java

The Java platform is a platform based on the Java language.

The Java programming language is a simple, object-oriented, distributed, interpretive, robust, secure, system-independent, portable, high-performance, multi-threaded, and static language.

Advantages: Java is suitable for team development, and software engineering can be relatively standardized. Due to the extremely strict syntax of the Java language itself, the Java language cannot write a confusing program. This will force the programmer's code software structure to be normative. This is an unmatched advantage.

4.5 PhoneGap

PhoneGap is a rapid development platform for creating mobile cross-platform mobile applications based on HTML, CSS and JavaScript. It enables developers to take advantage of the core features of iPhone, Android, Palm, Symbian, WP7, Bada and Blackberry smartphones - including geolocation, accelerators, contacts, sound and vibration, and PhoneGap has a rich set of plugins that can be used to Extend unlimited features. Phonegap is an open source development framework designed to enable developers to develop cross-platform mobile applications using Web APIs such as HTML, Javascript, and CSS.

(1) PhoneGap provides support for the following features on several major smartphone devices:

Accelerometer; camera; compass; address book; document; geolocation; media; network; notification (warning, sound and vibration);

(2) function

1. Compatibility. Completed written once, run everywhere.

2. Standardization. PhoneGap uses the W3C standard, a special standard, and the Web App can run without a word change. Especially when combined with JQ Mobile, it is really powerful!

3. Use JavaScript+HTML5.

(3) Support platform

The operating systems currently supported by PhoneGap include:

Apple's iOS, Google's Android, RIM's Blackberry, HP's WebOS, Microsoft's Windows Phone, Symbian's Symbian and Samsung's bada.

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