Research On The Construction Of Scientific And Technological Service Mode And Service Platform Based On O2O

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Abstract

The interaction between the virtual world on the Internet and the off-line real life gives birth to a new business model– the O2O business model. This paper expounds the relevant theory of O2O mode, analyzes the relevant literature and advances some ideas about the scientific and technological service mode based on O2O in view of the problems in technology service industry. Taking the case of Keju website as an example, the paper introduces the construction of the scientific and technological service mode based on O2O, the function of O2O technology service platform and the closed-loop process. At last, the development of the scientific and technological service mode based on O2O in China is summarized.

1 Introduction

With the rapid development of Internet information technology, there have been more frequent interaction between real life and the Internet and the network has increasingly become our important information platform. Under such circumstances, life service keeps moving towards mobile Internet. Based on the Internet, the interaction between the online virtual world and the offline real life has given birth to a new business model, that is, the O2O business model[1]. In the 2015 government work report, Premier Li Keqiang proposed to “take the Internet as the carrier and boom the emerging offline and online consumption [2]”. This was the first time that Chinese Premier had suggested to encourage o2o online and offline consumption, which signifies that the Chinese o2o era has arrived.

2 Review of O2O model theory

2.1 Definition of O2O model

O2o stands for “Online To Offline”, which refers to combining offline business opportunities with the Internet and making the Internet the front line of offline transactions in order to facilitate the enterprise to attract customers online. This O2O concept was first formally put forward by the founder and CEO of TrialPay AlexRampell in August 2011 in a guest article in TechCrunch, who found that the companies like Groupon, OpenTable and SpaFinder were all committed to the development of online and offline business model. The core of his O2O business model is to look for consumers on the Internet, and then take them to the real store [3]. O2O model combines offline business opportunities and the Internet together, in which the Internet plays the role of advertising platform and trading platform and offline products or services spread through the Internet. Therefore, the customers can enjoy the more easier and quicker services.

2.2 O2O model application and procedures [4]

The application of O2O model means service providers publish online products information and consumers consume off-line after online ordering and online payment. This involves three roles, namely, the online platform manager, service providers and consumers. The basic procedures include the following. Consumers order services online and pay online. After the online management platforms receive payment, they provide consumers the unique identification code SMS (or two-dimensional code SMS), with which consumers can enjoy the corresponding service after verification by professional equipment. The successful verification means that the transaction has been completed and the online platform will transfer the payment to the service provider. If consumers do not consume and want a refund, they can apply for a refund from the online management platform in accordance with the provisions.

2.3 Advantages of O2O model[5-6]

The o2o model can help the offline businesses get more potential consumers and improve the collection of user consumption data through the online platform and then achieve precision marketing. In addition to saving the logistics costs, this model can also help to directly calculate, analyze, track and evaluate the marketing effect of businesses, which evades the unpredictability of the traditional marketing.
model. For the consumers, O2o model provides them comprehensive, timely, rich and suitable business discount information, which enables them to select and order products or services more efficiently and obtain relatively cheaper price than the offline consumption. This also greatly improves the user experience. For the platform, the O2o model can bring high viscosity consumers and has a strong promotion effect and measurable promotion effect for business, which can attract a large number of offline life service businesses to join. Additionally, O2o model can also achieve the alliance of different businesses.

2.4 O2O closed loop

O2O refers that the two O (Online and Offline) must achieve docking and recycling, which means that the online customers are guided to the offline line consumption to achieve the transaction, and then return to the online registration and feedback. The docking of the closed loop O2O is to use the platform to integrate businesses, user information and payment channels to build the foundation for the inner loop recycling. The closed loop not only docks the online and offline channels and connects the users, businesses, and even the platform together, but also injects power to the loop so that businesses and users circulate like water. Therefore, in the formation of closed loop, docking is only the first step, while the recycling is the key. Closed loop is a basic attribute of the O2O platform, which distinguishes O2O platform from common information platforms.

3 Problems existing in the science and technology service industry of Gansu province

3.1 Uneven distribution of science and technology service resources and urgent need for resource supply and demand docking

The science and technology information resources sharing of Gansu province has formed a relatively complete system, which brings together various resources, such as R & D services, achievements transfer, intellectual property, and inspection and testing. The construction of sharing platform has also made some achievements. But there is an uneven distribution of resources among different regions. The scientific and technological resources mainly exist in some suburban areas in Lanzhou, Tianshui and Baiyin, etc. Furthermore, there are no mutual interaction and cohesive force between government and enterprises, enterprises and enterprises, enterprises and research institutions. They are lack of the awareness of integration and optimization of the resources allocation. Therefore, there is urgent need for the docking of resource supply and demand.

3.2 small scale of science and technology service institutions and limited ability in market development

At present, the science and technology service institutions of Gansu province are small. Furthermore, most of the science and technology service institutions are not known to the individual and enterprise users. Therefore, the service demand clients may have the problems of being unable to find the appropriate service providers, unclear description of needs and not meeting the needs, which limits the market development ability of science and technology services.

3.3 Restriction of traditional offline technology service industry on the development of science and technology service information

The traditional service means of science and technology service industry of Gansu province is mainly providing technical consulting service. This offline service is not sensitive to the change of market, weak in market competition and low in service ability and efficiency, thereby constraining the expansion of the ability of science and technology service. In view of the above problems, it is urgent to study the innovation of science and technology service model and promote the development of science and technology service industry by using the benefit sharing mechanism of marketization as the link and integrating quality technology service resources. With the rapid development of cloud computing, Internet of things, big data, mobile Internet, the scientific and technological service channels need to be widened and the online and offline integrated innovation service model should be developed to build science and technology service model based on o2o mode.

4 science and technology service model based on O2O

4.1 connotation

Science and technology service industry upstream and downstream of the science and technology resources on the basis of O2O cater to local customers, integration and docking, changes traditional service providers to provide a single service mode of the status quo, construct a customer oriented integrated service mode.

4.2 construction

Science and technology service model based on O2O provides scientific and technological resources to gather, docking, so as to integrate the upstream and downstream technology resources of the service chain. Figure 1 shows the framework of the O2O based service model of science and technology.
5 Based on the function of O2O technology service platform

According to the above proposed O2O based technology services model framework, in view of the various stages of the framework to provide services to the Department of poly

network as an example, a detailed introduction of the main functions of science and technology services platform.

5.1 section poly Network Introduction

Families get together the net is Gansu Province Science and Technology Information Institute of Gansu Provincial Science and Technology Department of guidance, integration of universities, research institutes, engineering technology research center. Key Laboratory, high technology enterprises more than 600 units to for enterprises and institutions to provide scientific instruments and facilities, scientific and technical literature, inspection and testing, research and development, technology transfer business incubation, technology consulting, intellectual property, technology and financial services online and offline one-stop research and innovation collaborative services platform. Families get together the net is in Gansu Province the first sponsored by the government the O2O mode of science and technology business platform.

5.2 Main functions of the branch network

Polymer network publishing platform for technical problems into fancy poly, poly mesh in O2O service, online trading platform is mainly "match", and more service is online. A poly mesh efforts to build open resources docking platform for the industry of scientific research management to enhance the productivity of scientific and technological innovation to create the best online and offline resources docking. For colleges and universities, research institutions, "science" is a showcase achievements in scientific research platform, the project by the enterprise, they may hatch industry. For the enterprise, "together" is a solution to the enterprise, the enterprise technical requirements, the relevant domain experts can help enterprises to solve the technical problems. The main function is as follows.

(1) the service catalog filtering function

Selection of directory service is refers to O2O mode framework of line resource integration stage by the integration of the science and technology resources, in accordance with the use of directory service technology development service directory classified display. Users in the directory service selection related industries or services classification and demand side can quickly locate the services they need, and service providers can also quickly find you can solve the problem, which can efficiently for demand side and service provider brings benefit.

(2) release function of science and technology resources

Resources of science and technology publishing stage is published in O2O mode framework of online information and service providers in the science and technology information service platform for the release and its service related information, including information and technology services and products information, improve their own exposure to obtain more orders.

(3) demand release function

Demand release function is in the O2O mode framework of the online demand release stage, the demand side in the
science and technology service platform with a free release service demand function, the use of O2O in Online solicit customers way, in the scientific and technological service platform to find solutions to the needs of the service providers.

(4) the results of the report submitted to the function
Results report function is in O2O mode framework of online reporting stage, after the completion of the docking services online service providers and demanders, service providers need to submit a report on the outcome in the science and technology service platform, in order to prove the effective completion of the science and technology service. Service providers of the service is to be recognized, depends to a large extent to report the results of whether effectively solves the demand side, whether to have the professional and scientific.

(5) comment function
After the comment function in O2O mode framework of online submit review stage, demand side in to complete the line docking services and received from the service providers in the reporting of outcomes, the need for online service providers to the service evaluation, evaluation content will affect the reputation of the service provider.

5.3 Closed loop process of O2O service model

Department of polymer network O2O service model of closed-loop process consists of four main parts: the first part is the online matchmaking, service providers through the Keju web site to show their products and services, the demand side is to obtain information technology products through online services, evaluation and selection; the second step is to generate orders, through online matchmaking, demand side in Keju online operation, to generate orders, families get together the net orders sent to the user's mobile phone digital certificate of production order; the third link is the next line of consumer demand with the order digital certificates to offline service providers to the consumer to buy their own technology services; the fourth part is when the consumption is completed, the relevant consumer transactions the report will provide information and evaluation information to the background processing, on the one hand back to the service providers, on the other hand can be pushed to the demand side, the demand side to provide the basis for the next purchase.

6 Concluding remarks

With the development of e-commerce in China's rapid development, science and technology service industry from the maturity of e-commerce business model, as a commodity technology service, using the O2O model for sales in the service platform, and achieved good results. Based on the science and technology service platform O2O mode more influential is organized by the Tianjin City science and technology small and medium-sized enterprise development work leading group office of Amoy network, Xiamen Information Technology Co., the company created a net, the Xi'an Municipal Science and Technology Bureau and the Xi'an high tech Zone to build the Xi'an science and technology market, Guizhou province science and Technology Department of Guizhou province organized by the science and technology resources service platform, science and Technology Department of Gansu province organized by the Department of polymer network Beijing intellectual construction enterprise management consulting Co. Ltd., set net and so on.

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