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Exploring the Determinants of Community Engagement in Social Q & A Communities

Linlin Zhang^{1*}, Yongwei Jiang²

¹Management School, Jinan University, Guangzhou, China ²Staff of Pauli Real Estate Limited by Share Ltd., Guangzhou, China

Email: *alinllz@163.com

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Abstract

Based on group identity and interpersonal bonds, this study constructs a theoretical framework to explain the influence mechanism of community engagement in social Q & A community users. According to the data received from 402 users of social Q & A community, this study empirically tested the proposed model. The results of structural equation modeling (SEM) showed that community identification is the antecedent of community engagement. And community identification plays a mediating role in the impact of perceived online relationship commitment on community engagement. Community prestige has a positive impact on community identification, and social presence and familiarity has a positive impact on the perceived online relationship commitment.

Keywords

Social Q & A Community, Community Engagement, Community Identification, Perceived Online Relationship Commitment, Attachment

1. Introduction

In recent years, people present a more precise and more refined demand for knowledge, and the social Q & A communities came into being. The social Q & A community is a knowledge service platform based on social media, which is based on users' questions, answers and discussions. Compared with the traditional Q & A community, the social Q & A community pays more attention to the quality of knowledge, the establishment of social relations, and the continuous participation and contribution of the users. Community engagement is the specific application of customer engagement concept in the network community. It refers to the behavior of users who are motivated by a certain motiva-

tion and voluntarily produce other contributions other than trading behavior to the community, such as writing comments, prestige, recommendation, and help other consumers [1].

Although the social Q & A community is developing rapidly, community operators still face severe challenges. In the quiz community with high maturity, most community users have low stickiness and low participation. Therefore, how to retain the existing users and encourage their community behavior has become a common concern in both the practice and the academia. On the one hand, the current network community is various, and the cost of network space transfer is low. If users find social Q & A community can't meet their needs, they may stop using or transferring to another community of the same type [2]. On the other hand, community users do not have a clear obligation, and their knowledge contribution behavior is voluntary. It's this nature that makes it difficult for managers to encourage members to take knowledge of this kind of pro-social behavior [3] [4] [5]. Under this background, it's of great significance to understand the influencing factors and influencing mechanism of users' community engagement behaviors to better understand users' needs and improve service level in social Q & A communities.

The essay attempts to develop and test a model exploring the determinants of community engagement in the context of social Q & A communities. First, drawing on the social psychological study, we propose a research model to study and explain community engagement. Specifically, our model predicts that two mechanisms, identification and commitment, are the main drivers of community engagement. Through literature search, reading and analysis, this study combs users' community interaction behavior, group identity theory and interpersonal bonds theory. The socialized Q & A community users are taken as the research object, and the sample data are obtained through the network questionnaire survey, and the theoretical model is tested. This research applies SPSS19.0 and AMOS17.0 statistical software to analyze the collected data. Descriptive statistical analysis, reliability test, validity test and structural equation model are used to verify the correctness of the theoretical model and hypothesis. The innovation points of this paper are as follows: firstly, cross disciplinary research is carried out. Based on the theory of group identity and interpersonal bonds, this study attempts to explore the determinants of social Q & A community engagement, and make an important attempt for cross research in social psychology and relationship marketing. Secondly, based on the theory of group identity and interpersonal bonds, this paper explores the influencing factors of community engagement in social Q & A communities. Finally, it expands the existing research on the socialized Q & A communities and the user's engagement behavior.

2. Theoretical Foundations and Research Hypotheses

The theoretical root of customer engagement is expanded domain of relationship marketing and S-D logic, which emphasis on specific interpersonal interaction and creation experience [6]. Brodie et al. [7] put forward that customer engagement is the psychological state that customers produce when they interact with specific objects (such as brands) and create customer experience in specific service relationships. Van Doorn [1] et al. (2010) also believes that a specific interactive experience is an essential condition for customer alignment. These interactions and experiences may be generated by the effectiveness of the product or service [8], User information or content interaction [9] [10], and interpersonal interaction [7] [11]. The difference between identity and bonds is that people are integrated into a group based on different reasons, that is, people like the whole group—identity based attachment to a group, or because they like the individual in a group—bond-based attachment to individual member [12]. People with the same identity often take concerted action to maintain and improve their common identity. Based on this, this study focuses on user behavior in social Q & A communities, and explores the influence of group identity and interpersonal bonds on user interaction under this context.

On the other hand, scholars generally believe that perceived online relationship commitment is an important factor affecting customer engagement [13]. The establishment of perceived online relational commitment usually relies on extensive and continuous interaction, so that individuals can reliably expect other individuals or organizations to act [14].

Although in traditional Q & A network, users usually have no actual contact with others, but this does not mean that interaction cannot be produced. Previous studies have shown that in the e-commerce environment, social presence and familiarity are important factors for the formation of personal perceived online relationship commitment [15].

From the perspective of time dimension, this study explores how social presence and familiarity affect users' perceived online relationship commitment, and how users' perceived online relationship commitment affects community engagement. Among them, the social presence represents the psychological connection in the interaction of the user's reality, and the familiarity is formed by the experience of the past interaction.

To sum up, this paper will take users from social Q & A communities, such as Zhihu and Guokr and so on, to explore how user attachment based on group identification and interpersonal bonds affect users. The research model is shown in Figure 1.

1) The influence of identity based attachment to a group on community engagement.

A growing number of literature on group identity points out that members will seek more personal contact with the group as the importance of identity increases [16]. In addition, good identification will enable individuals to produce the willingness to participate in the behavior to support the group [17]. Bhattracharya and Sankar Sen [18] (2003) also pointed out that corporate identity can make consumers more loyal and active in recommending new customers to

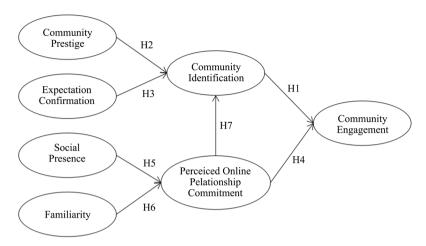


Figure 1. Research model.

businesses, and willing to spread information that is beneficial to enterprises (or avoid and resist information that is not conducive to business). Algesheimer [4] (2005) based on the empirical study of brand community, found that the customer's identity to the brand community is positively affecting the community engagement. We believe that one way to reflect or reflect this situation in the research is by supporting the community. So, we assume that:

H1: In the social Q & A communities, community identification has a positive impact on community engagement.

Community identity depends mainly on two aspects: the community and the user. On the one hand, as a provider of community, its good prestige will lead to the generation of individual identity. Bhattacharya and Sankar Sen [18] (2003) have pointed out that organizational prestige is an important factor affecting members' identification in the research on organizational identity. The social Q & A community is also an embodiment of the organization. On the other hand, as users of the demand side, the researchers (e.g., Hall and Schneider [19], 1972) in the field of organizational behavior show that the degree of satisfaction that individuals support for organizations to help achieve personal goals is related to identification. The more satisfaction a person gives to the organization, the higher the sense of identity is. In contrast, some studies have found that through expectations, the satisfied members will have more recognition of the group [20]. So, we assume that:

H2: In the social Q & A communities, the perceived community prestige has a positive impact on the community identification.

H3: In the social Q & A communities, expectation confirmation has a positive impact on community identification.

2) The influence of bond-based attachment to individual member on community engagement.

The relationship commitment reflects the inner perception of the individual's dependence on the established relationship [13]. Therefore, in the study of this article, Perceived online relationship commitment is defined as "the extent to

which individuals believe themselves (he/she) can maintain relationships with others in the socialized Q & A community [21]. The higher the demand for individuals to maintain this established relationship, the stronger the attachment to the relationship will be, which is to spend more time and energy in maintaining and continuing interaction with partners. In the social Q & A communities, participation is a way of building a close relationship, which can be regarded as a social support and a pro social behavior. In the process of maintaining the established relationship, individual users become more willing to participate in the community to help others. Community participation is also seen as a positive act. So, we assume that:

H4: In the social Q & A communities, the perceived online relationship commitment has a positive impact on the community engagement.

The sense of social presence is defined as the extent to which the user psychologically perceiving others' existence through the media [22]. Previous studies have shown that social presence can be realized through practical or virtual interaction, and influence the pleasure of the customer to produce a feeling of psychological proximity [23]. In the socialized e-commerce, social presence promotes the development of the relationship between customers and strengthens their socialized ability. Therefore, in the social Q & A community, the higher the user perceived social presence is, the more willing they are to participate in interaction, such as sharing information and asking questions, which is more conducive to perceive the formation of relationship commitment.

Familiarity involves the understanding and experience of consumers about when, how, and by whom [14] usually in the interaction and learning of the past [24]. Research shows that familiarity reduces the confusion and misunderstanding in the process of customer transaction [15]. It can also effectively predict the future behavior of suppliers or other individuals [25]. Therefore, in the socialized Q & A community, familiarity may increase the confidence of the user, which leads to a higher commitment to perceived relationships. Accordingly, we propose the following hypothesis:

H5: In the social Q & A communities, social presence has a positive impact on perceived online relationship commitment.

H6: In the social Q & A communities, familiarity has a positive impact on perceived online relationship commitment.

3) The impact of perceived online relationship commitment on community identification.

Concern for a sense of belonging is an important factor in the formation of human thoughts [13]. That is to say, the existence of real or virtual bonds will have an impact on the way people think [26]. The community identity of individual users is influenced by the commitment of personal perception. In particular, the stronger the individual's attachment to the socialized Q & A community, the greater the sense of belonging of the individual to the socialized Q & A community. This leads to an increase in switching costs. In this case, the more

users contribute to the social Q & A community, the higher the cost of conversion to other communities, because once he or she leaves, he or she will have nothing. As a result, when a personal user has a strong attachment to other members, the user will have a strong dependence on the whole socialized Q & A community. So, we assume:

H7: In the socialized Q & A community, the users' perceived online relationship commitment has a positive impact on the community identification.

3. Research Methodology

3.1. Measurement

The majority of the tested scales used in our survey were adapted from the previous literature. Specifically, the scales for community engagement were adapted from Ray *et al.* [5] (2014). These scales captured the affective, cognitive, and pro-social characteristics that are simultaneously involved in engagement. The scales used to measure community identification are also drawn from Ray *et al.* [5] (2014). These scales avoided items that measured affective bonds in favor of items that reflected the definition of identification as the commonality of values, vision, and goals between respondents and their respective social Q & A communities. To measure perceived online relationship commitment, we used scales drawn from Ma and Yuen [21] (2011) to assess individual believes about he/she can persist in a relationship with others on a social Q & A community.

To measure the community prestige, we used scales drawn from Stokburger *et al.* [27] (2012) to assess users' status or esteem associated with a social Q & A community. Additionally, measures for expectation confirmation were adapted from Bhattacherjee [28] (2001). These scales measure whether their experience with using social Q & A community is better than their expectation.

The scales used to measure social presence were adapted from Animesh *et al.* [29] (2011) to assess a participant's perception of how personal, warm, intimate, sociable, or sensitive the social interactions are in the social Q & A community. To measure familiarity, we used scales drawn from Chiu *et al.* [30] (2012) to assess participant's understanding and knowledge about the social Q & A community. All items were measured using a seven-point Likert scale ranging from "strongly disagree" to "strongly agree".

3.2. Sample and Data Collection

The questionnaire was translated from English to Chinese and then back-translated from Chinese to English by certified professional translators to ensure the integrity of the constructs. Before deploying the main survey instrument, we invited 20 undergraduate students at a public university in China to conduct a pilot study in order to ensure that their understanding of the meaning of the items was consistent with the constructs being used in this study. Some minor modifications were made based on their feedbacks. The revised questionnaire was then used for the official online survey (Appendix).

In order to assess the validation of the proposed model, we collected data from China social Q & A community user using an online survey. Instead of studying users of one or two social Q & A community, we targeted a broad set of online users who might have used many social Q & A communities. A self-reported survey was distributed to social Q & A community users. Only those who self-reposed as had used social Q & A community were eligible to participate in this study. The surveys asked respondents to consider a social Q & A community they recently visited. A total of 402 users completed the survey. The demographic details of these social Q & A community users are described in Table 1.

Table 1. Sample demographics.

| Dimension | Category | Percentage | Dimension | Category | Percentage |
|---|----------------------|------------|--------------------|---------------------------------------|------------|
| Gender | Male | 43.5% | | Student | 47.7% |
| Gender | Female | 56.5% | | Office worker | 8.0% |
| Age | <18 | 2.5% | 0 " | Corporate | 37.3% |
| | 19 - 24 | 57.2% | Occupation | personnel Freelance | 3.0% |
| | 25 - 30 | 31.3% | | Other | 4.0% |
| | >31 | 9.0% | | Student | 47.7% |
| | Senior high school | 3.7% | | Less than 6 month | 59.2% |
| | Junior college | 9.7% | | 6 month to less than 1 years | 11.7% |
| Education | Bachelor's degree | 57.0% | Usage | 1 to less than 2 years | 14.2% |
| | Master's degree | 26.9% | experience | 2 to less than 3 years | 6.9% |
| | Doctor's degree | 2.7% | | 3 to less than 4 years | 3.5% |
| | Zhihu | 60.7% | | 4 or | 4.50/ |
| | Guokr | 23.6% | | more years | 4.5% |
| | Ask. Weibo | 11.2% | | Not Once | 44.3% |
| | Welp | 10.0% | | Once or Twice in the Last Month | 23.2% |
| Which social Q & A community have you used? | Quora | 7.5% | Duration of | Once or Twice a Week | 16.7% |
| | Jiwenjida | 7.2% | usage per month | More than three Times a Week | 9.2% |
| | Luexiao | 1.7% | | Once or Twice a Day | 3.9% |
| | Other | 21.6% | | More than three Times a Day | 2.7% |

4. Data Analysis and Discussion

The structural equation modeling (SEM) was used to statistically test theoretical assumptions against empirical data. SEM is a multivariate technique that combines aspects of multiple regression and factor analysis to estimate a series of interrelated dependence relationships simultaneously. Consequently, we conducted our main data analysis using an AMOS 21.0, which can test confirmatory measurement, goodness-of-fit, and common method bias.

A two-step approach was used for data analysis. We firstly assessed the measurement model and then tested the structural relationships among the latent constructs. We used the two-step approach in order to establish the reliability and validity of the measures before assessing the structural relationship of the model.

4.1. Measurement Model

Confirmatory factor analysis (CFA) was used to assess the measurement model. One item of social presence was dropped due to the high cross loading. All fit indices meet the commonly applied thresholds (see **Table 2**).

We further evaluated internal consistency, convergent validity, and discriminant validity by examining the Cronbach's alpha, composite reliability, and average variance extracted (AVE) of each construct (see **Table 3**). Internal reliability was examined by Cronbach's alpha and composite reliability. The values of Cronbach's alpha and CR were higher than the criterion 0.70 [31], thereby justifying an adequate level of internal reliability. Convergent validity was used to ensure that theoretically related scales were highly correlated. Three criteria of convergent validity were proposed as a CR of more than 0.70, an AVE of 0.50 or above and item loadings higher than 0.70 [32]. As shown in **Table 3**, the CR of each construct ranges from 0.88 to 0.95, the AVE ranges from 0.71 to 0.87, and all the item loadings are higher than 0.70. All of these measures meet the recommended levels.

Table 2. Fit indices of measurement model.

| Goodness of fit indices | Initial model | Revised model | Desired levels |
|-------------------------|---------------|---------------|----------------|
| CMIN/DF | 2.32 | 2.22 | <3.0 |
| CFI | 0.97 | 0.97 | >0.90 |
| TLI | 0.96 | 0.97 | >0.90 |
| RMSEA | 0.057 | 0.055 | <0.08 |
| Standardized RMR | 0.035 | 0.034 | <0.08 |
| GFI | 0.89 | 0.91 | >0.90 |
| AGFI | 0.86 | 0.88 | >0.80 |
| No. of latent variables | 7 | 7 | |
| Total no. of items | 25 | 24 | |

Note. CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; RMR = root mean square residual; GFI = goodness-of-fit index; AGFI = adjusted GFI.

Table 3. Confirmatory factor analysis.

| Latent construct | Indicator | Standard loading | Cronbach's Alpha | CR | AVE |
|--|---------------------------------|---|------------------|------|------|
| Community Prestige | CP1 CP2 CP3 | 0.87*** 0.86*** 0.84*** | 0.89 | 0.89 | 0.73 |
| Expectation Confirmation | EC1 EC2 EC3 | 0.88*** 0.90*** 0.83*** | 0.90 | 0.90 | 0.76 |
| Social Presence | SP1 SP2 SP4 SP5 | 0.85*** 0.90*** 0.90*** 0.84*** | 0.93 | 0.93 | 0.76 |
| Familiarity | FL1 FL2 FL3 | 0.91*** 0.95*** 0.94*** | 0.95 | 0.95 | 0.87 |
| Community Identification | CI1 CI2 CI3 | 0.92*** 0.91*** 0.91*** | 0.94 | 0.94 | 0.83 |
| Perceived Online Relationship Commitment | PC1 PC2 PC3 PC4 PC5 | 0.87*** 0.92*** 0.89*** 0.85*** 0.92*** | 0.95 | 0.95 | 0.79 |
| Community Engagement | CE1 CE2 CE3 | 0.87*** 0.88*** 0.78*** | 0.87 | 0.88 | 0.71 |

Discriminant validity indicates that the extent of the construct is low in correlation with other constructs. Such validity is demonstrated when the square root of AVE for the given construct is higher than the correlations between that construct and all other constructs [32]. As shown in **Table 4**, the square root of AVE exceeds the correlations between each construct and the other constructs, suggesting adequate discriminant validity for all constructs.

4.2. Structural Model

Following the establishment of the measurement model, we go forward to the structural model. The overall fit and the explanatory power of the proposed model were examined, and the results are shown in **Table 5** and **Figure 2**. The overall goodness-of-fit (see **Table 5**) suggests a good fit between the structural model and the data.

Figure 2 illustrates the path coefficients and explanatory power for the structural model. Five of the seven proposed hypotheses were supported. Community identification (H1; β = 0.66) had significant effects on community engagement, explaining 50% of its variance. Contrary to our expectation, perceived online relationship commitment had no statistically significant effect on community engagement (H4 was not supported).

Table 4. Discriminant validity.

| | СР | EC | SP | FL | CI | PC | CE |
|---|------|------|------|------|------|------|------|
| Community Prestige (CP) | 0.85 | | | | | | |
| Expectation Confirmation (EC) | 0.74 | 0.87 | | | | | |
| Social Presence (SP) | 0.74 | 0.70 | 0.87 | | | | |
| Familiarity (FL) | 0.69 | 0.67 | 0.56 | 0.93 | | | |
| Community Identification (CI) | 0.72 | 0.59 | 0.64 | 0.53 | 0.91 | | |
| Perceived Online Relationship Commitment (PC) | 0.59 | 0.56 | 0.61 | 0.49 | 0.83 | 0.89 | |
| Community Engagement (CE) | 0.75 | 0.67 | 0.76 | 0.59 | 0.68 | 0.61 | 0.84 |

Table 5. Fit indices of structure model.

| Goodness of fit indices | Structure model | Desired levels | |
|-------------------------|-----------------|----------------|--|
| CMIN/DF | 2.76 | <3.0 | |
| CFI | 0.96 | >0.90 | |
| TLI | 0.95 | >0.90 | |
| RMSEA | 0.066 | <0.08 | |
| Standardized RMR | 0.08 | <0.08 | |
| GFI | 0.89 | >0.90 | |
| AGFI | 0.86 | >0.80 | |
| No. of latent variables | 7 | | |
| Total no. of items | 24 | | |

Note. CFI = comparative fit index; TLI = Tucker-Lewis index; RMSEA = root mean square error of approximation; RMR = rootmean square residual; GFI = goodness-of-fit index; AGFI = adjusted GFI.

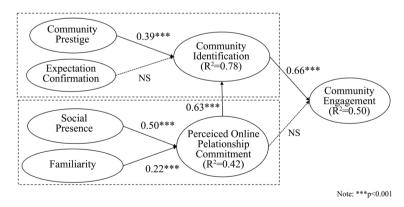


Figure 2. Structural model results.

The results also show that perceived online relationship commitment (β = 0.63) and community prestige (β = 0.39) had statistically significant effects on

community identification, explaining 78% of its variance. H2, H7 were thus supported. However, expectation confirmation had no statistically significant effects on community identification, contrary to the relationship proposed in H3. Finally, social presence ($\beta = 0.50$) and familiarity ($\beta = 0.22$) had significant effects on perceived online relationship commitment, explaining 42% of its variance; H5 and H6 were also supported.

The path coefficient between the latent variables is significant or not, which can be judged by T test and P value. When T > 1.96 or P < 0.05, the path coefficient can be determined to be significant. The hypothesis test results, as shown in **Table 6**, are accepted in all hypotheses of this study, except that H3 and H4 are not accepted, and the other 5 hypotheses are accepted.

5. Conclusions

This study aims to provide a research model to reveal the determinants of community engagement in social Q & A community. The results lend support to five of the seven proposed links. The research model accounted for 50% of the variance in community engagement. While community identification significantly influenced community engagement, perceived online relationship commitment had no statistically significant effect on community engagement. The effect of perceived online relationship commitment on community engagement was mediated by community identification.

Moreover, we found that community prestige and perceived online relationship commitment collectively explained 78% of the variance in community identification. Contrary to our hypothesis, expectation confirmation did not significantly impact community identification.

Table 6. Hypothesis test results.

| Number | Hypothesis | Path coefficient | T Statistics | <i>P</i> Values | Result |
|--------|---|------------------|-----------------|-----------------|--------|
| H1 | community identification has a positive impact on community engagement. | 0.66 | 7.32 | 0.000 | accept |
| H2 | the perceived community prestige has a positive impact on the community identification. | 0.39 | 7.22 | 0.000 | accept |
| Н3 | expectation confirmation has a positive impact on community identification. | -0.02 | -0.42 | 0.672 | refuse |
| H4 | the perceived online relationship commitment has a positive impact on the community engagement. | 0.06 | 0.66 | 0.512 | refuse |
| Н5 | social presence has a positive impact on perceived online relationship commitment. | 0.50 | 8.99 | 0.000 | accept |
| Н6 | familiarity has a positive impact on perceived online relationship commitment. | 0.22 | 4.27 | 0.000 | accept |
| H7 | perceived online relationship commitment has a positive impact on the community identification. | 0.63 | 14.90 | 0.000 | accept |

In addition, interaction is the foundation of the relationship commitment. In particular, social presence and familiarity collectively explained 42% of the variance in perceived online relationship commitment. Moreover, we found that social presence (β = 0.50) has a stronger power than familiarity (β = 0.22) in explaining perceived online relationship commitment.

In conclusion, this study shows that community identification is the antecedent variable of community engagement, and community identification completely mediates the impact of perceived online relationship commitment on community engagement. Perceived community prestige is an important factor affecting community identification, and social existence and familiarity will positively affect the perceived online relationship commitment.

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Appendix

Questionnaire of community engagement in social question and answer communities.

Dear Lady/Mr:

Hello! I am a master's graduate student at the School of management, Jinan University. At present, a survey is being carried out on the factors that affect the community engagement in social Q & A communities. We sincerely invite you to take 5 - 10 minutes in your busy schedule to fill out the following questionnaires. All the survey data will be used for academic research and strictly confidential. The results will only show comprehensive information, and will not involve any personal information. Please choose the most suitable answer according to the actual situation of using the social Q & A communities. Thank you for your participation!

(Description: the social Q & A community is a knowledge service platform based on social media, which is based on users' questions, answers and discussions. It has both the professionalism and openness of the encyclopedia web sites, the interactivity of question and answer websites and the increase of social service functions. For example, Quora, Zhihu, Guokr, Ask.Weibo, Welp, Jiwenjida, Luexiao, and so on.)

Part 1: Basic information. Please choose the right answer according to your actual situation.

- 1. Your sex:
- 1) male; 2) female
- 2. Your age:
- 1) under age 18; 2) 19 24 years old; 3) 25 30 years old; 4) 31 35 years old; 5) 36 40 years old; 6) 41 45 years old; 7) 46 50 years old; 8) More than 50 years old
 - 3. Your education level is:
 - 1) high school and below; 2) college; 3) undergraduate; 4) Master; 5) doctor and above
 - 4. Your occupation is:
- 1) the students in the school; 2) the Workers in the party and government institutions and institutions; 3) Enterprise staff; 4) the freelance; 5) other (<u>please fill in</u>)
 - 5. Which social Q & A community(s) have you used?
- 1) Quora; 2) Zhihu; 3) Guokr; 4) Luexiao; 5) Welp; 6) Jiwenjida; 7) Ask.Weibo; 8) other (please fill in)
 - 6. How long has it been for you to use the social Q & A communities:
- 1) under 6 months; 2) 6 months to 1 years; 3) 1 to 2 years; 4) 2 to 3 years; 5) 3 to 4 years; 6) 4 years or more
 - 7. How often do you use the social Q & A communities over the past month:
- 1) none; 2) 1 to 2 times; 3) 1 to 2 times a week; 4) more than 3 times a week; 5) 1 to 2 times a day; 6) more than 3 times a day

Please answer the following contents according to the actual use of the social Q & A community that you most often use. Choose a most suitable answer you think is the most appropriate. Among them, "1" represents "totally disagree", "2" represents "Disagree", "3" represents "A little disagree", "4" represents "Uncertain", "5" represents "A little agree", "6" represents "Agree", "7" represents "totally agree",

Part 2: Social Q & A community users' perceived benefits.

1 2 3 4 5 6 7

CP1: The social Q & A community has a high prestige.

CP2: The social Q & A community is one of the best quiz communities.

CP3: The social Q & A community is an excellent, high-quality Q & A community.

EC1: I used the social Q & A community to experience better than I expected.

EC2: The social Q & A community provides a better level of service than I expected.

EC3: As a whole, my expectations for the social Q & A community have basically been achieved.

When using a social Q & A community, the interaction with other members is...

SP1: interpersonal.

SP2: warm.

SP3: close.

SP4: humanized.

SP5: rich in emotion.

FL1: I'm very familiar with the social Q & A community.

FL2: I'm very familiar with the process of asking the social Q & A community to search for knowledge.

FL3: I'm very familiar with how to get knowledge in the social Q & A community.

Part 3: The emotional attitude of the user to the social Q & A community.

1 2 3 4 5 6 7

CI1: The social Q & A community has a common vision for me.

CI2: The social Q & A community has a common goal with me.

CI3: The social Q & A community has shared values with me.

PORC1: I stick to the social Q & A community to maintain the relationship with the other members of the community.

PORC2: I hope to maintain a long-term relationship with the other members of the community through the social Q & A community.

PORC3: I have a strong connection with the other members of the community through the use of the social Q & A community.

PORC4: In the social Q & A community, I would be very upset if the relationship with other members of the community came to an end.

PORC5: Through the use of the social Q & A community, I seek to maintain a long-term relationship with other members of the community

CCE1: I would like to participate in the social Q & A community's activities, because participation makes me feel better.

CCE2: I would like to participate in the social Q & A community's activities, because participation enables me to help other members.

CCE3: I am willing to participate in the social Q & A community, because participation enables me to achieve personal goals.