MOBILE BASED SOCIAL NETWORKING APPLICATIONS FOR RE SUPPORT : AN ANALYSIS

BABLY DOLLY

Department of Computer Science & Information Technology

Baba Bhimrao Ambedkar University Satellite Campus, Amethi

Abstract: Requirements elicitation is the step of getting for innovative thoughts, obtaining, and explaining Requirements for end users. It is by and big comprehended that Requirements are evoked as inimical to recently caught or collected. This implies there are revelation, growth, and improvement elements to the elicitation process. Requirements elicitation is a strategy including numerous exercises with a mixture of accessible scenarios, methodologies, and devices for performing them. In this paper we just focus on analyzing the social impact in requirement elicitations through Mobile based Social Networking Apps.

1.1. Introduction: As the social media sites are popularly envolved in our day to day life, so its impact have more potential to empowering crowed. By following this point of view author focus on basically socially based websites and application software which have the tremendous role in empowering crowed.

1.2. Mobile Based Social Networking Applications(MB^{SNA}**) for RE support**

Facebook, Messenger, WhatsApp and Telegram are proud examples of SNA that have millions of users. We select them to become our partakes for an operation of our RE attitude as all are have a several number of registered and active end users - conferring to the figures provided by Alexa. Another criterion was provincial reception – the selected SNA are popular in India. In order to identify the most suitable SNA, the authors performed an initial comparison after defining the key rations for MB^{SNA} supported RE approach. We explored which of their features are used to support the predefined key requirements.

By Our analysis revealed to allow an specific end user's idea(as in table 1.1) – i.e. a requirement, a users reach(RQ1) all social networks have associated end users for an idea (RQ20,21). This, for example, includes *like* in Facebook, WhatsApp users are even able to check the access to their ideas(RQ20) by confidentiality and group(RQ23) and hence control the supply of the ideas. Although people could discuss an idea on a user profile, we consider a private, protected and

dedicated space for group discussions to be more usefulness (RQ22). Facebook, WhatsApp, Telegram etc. allow their users to create such a space. Those *groups* characterize a steadfast space for argument and communication of new ideas and allow to invite shareholders and manage user settings – e.g. define which group members have to be given permission to access or communicated(RQ23).[10] Telegram is a completely free service while WhatsApp is a yearly subscription program. There are advantages and weaknesses to both approaches. As messages are not stored on the server by this app which gives feeling of high security.[22]

After an initial comparison of the three social network apps, we resolved that three of above would allow us to instantiate and apply our MB^{SNA} System supported RE approach. Although all three candidates (i.e. Facebook, WhatsApp, Telegram) would have satisfied our preliminary requirements, we selected WhatsApp and Facebook to become the platform for further inquiry as the both are free installed services in inexpensive mobile too which is available the less inexpensive mobile users also. Our main reasons were:

1. Facebook and WhatsApp have over a billion users universal and is currently the important social network app;

2. Target group for our survey (candidate and their networks) would be more likely to already have an account and be familiarized to Facebook, WhatsApp.[10]

Requirements Serial No.	Requirements
RQ1:	Is this app is most popular?
RQ2:	Is this App is Free of cost?
RQ3:	Can we have Free voice calling?
RQ4:	Is mobile number used in Account creation?
RQ5:	Is there Message seen confirmations available?
RQ6:	Is Automatic backup possible?
RQ7:	Is there High Security available?
RQ8:	Sending pictures/graphics are easy?
RQ9:	Can we transfer videos?
RQ10:	can we Send voice messages?
RQ11:	is Search function available?
RQ12:	Can we Send location data?
RQ13:	can we have option to log out?
RQ14:	Can we make video calling?
RQ15:	Can we Set wallpapers?
RQ16:	Is this app provide Notifications?
RQ17:	Can we make Secret Chat?
RQ18:	Can we make Group Chat?
RQ19:	Can we have Broadcast List?
RQ20:	Can we Communicate ideas?
RQ21:	Can we Comment on given ideas?
RQ22:	Can we make Group discusion?
RQ23:	Can we Control group access
RQ24:	are being get Contact no. in Group automatically shown?
RQ25:	Is animation possible?

Table:1.1 Checklist for Requirements Elicitation in $\mathrm{MB^{SNA}}$

	Facebook	WhatsApp	Telegram
RQ1:	No	Yes	No
RQ2:	Yes	Yes	Yes
RQ3:	Yes	Yes	No
RQ4:	Yes	Yes	Yes
RQ5:	Yes	Yes	Yes
RQ6:	No	Yes	Yes
RQ7:	No	Yes	No
RQ8:	Yes	Yes	Yes
RQ9:	Yes	Yes	Yes
RQ10:	Yes	Yes	Yes
RQ11:	Yes	Yes	Yes
RQ12:	Yes	Yes	Yes
RQ13:	No	No	Yes
RQ14:	Yes	Yes	No
RQ15:	No	Yes	Yes
RQ16:	Yes	Yes	Yes
RQ17:	Yes	Yes	Yes
RQ18:	Yes	Yes	Yes
RQ19:	Yes	Yes	No
RQ20:	Yes	Yes	Yes
RQ21:	Yes	Yes	Yes
RQ22:	Yes	Yes	Yes
RQ23:	Yes	Yes	Yes
RQ24:	No	Yes	No
RQ25:	No	No	Yes

Table :1.2 Analysis of requirements in different MB[SNA]

1.3. Matrix Representation between requirements and MB^{SNA}

Parameters	Facebook (x1)	WhatsApp (x2)	Telegram (x3)	Weightage (w)
RQ1:	0	1	0	1
RQ2:	1	1	1	3
RQ3:	1	1	1	3
RQ4:	1	1	1	3
RQ5:	1	1	1	3
RQ6:	0	1	1	2
RQ7:	0	1	1	2
RQ8:	1	1	1	3
RQ9:	1	1	1	3
RQ10:	1	1	1	3
RQ11:	1	1	1	3
RQ12:	1	1	1	3
RQ13:	0	0	1	1
RQ14:	1	1	0	2
RQ15:	0	1	1	2
RQ16:	1	1	1	3
RQ17:	1	1	1	3
RQ18:	1	1	1	3
RQ19:	1	1	0	2
RQ20:	1	1	1	3
RQ21:	1	1	1	3
RQ22:	1	1	1	3
RQ23:	1	1	1	3
RQ24:	0	1	0	1
RQ25.	0	0	1	1
Total	18	23	21	62

Table:1.4 Comperative Evaluation of MB^{SNA}

 The given designed tabular responses are prepared on the basis of either the given requirement exist or not, these are answered in yes or no format by taking the survey through different 500 end users. In this the requirement is classified as resulted of yes or No reply from survey.   For this Yes/No

responses we use 1 or 0 indicator. As it can seen, we have give a weight to each requirement, where every requirement have the highest weight as 3 and lowest weight as 0. On the foundation of rquirement weight we can arrange that which requirement have the highest urgency and which one has mediam or low urgency.

As we can see the consequences from tabular data where By seeing the weight of different applications in this survey, we can conclude that the most popular mobile social networking app is Whatsapp by comparison of their utilization o the basis of their different features where rest are less uses as compare to this app. As a result we can say that Requirement elicitation can be easily done by using the different social networking sites as they are the real factors for empowering the crowd of the stakeholders/ end users.

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