Survey On Goal-Oriented Requirement Engineering Process

Shivaprakash Tumbagi[#1], Vidyashree[*2]

#1 *Professor Dept. of Computer Science and Engineering, VTU Regional Office, Kalaburagi, India*
#2 *Student, Dept. of Computer Science and Engineering, VTU Regional Office, Kalaburagi, India*

Abstract *— This document The Goal Oriented Requirement Engineering provides the way of ensuring the Mapping Study that the quality of a software system critically depends on the degree of which it fulfills its requirements. Goals have been brought into Requirement Engineering activities for a number of reasons where customer or consumer satisfaction regarding their needs and intentions is one out of many. Requirement engineering is a process of defining, documenting and maintaining requirements in the engineering design process.*

Keywords *— Systematic Mapping Study, Orientation, Requirements.*

I. INTRODUCTION

The field of GORE has emerged in order to create and study various methods which approach requirement engineering from goal-oriented. The quality of a software system critically depends on the degree to which it fulfils its requirements such requirements are often elicited, modeled and analyzed as (stakeholder) goals. The field of Goal-Oriented Requirements Engineering (GORE). The study way of Goal-Oriented Requirements Engineering is the major application of goal models and mapping process. The main concept of the goal model is the specific model is expressed in a goal-oriented requirement language this process involves the first class object languages and with graphical notations and visual syntax.

In this work, hear we aim to understand the main approach of status and the landscape of existing work in Goal Oriented Requirement Engineering Process at a high level of abstraction. In a presenceof the Requirement Engineering meta-survey have pointed out that there to be a systematic literature review specifications of GORE publications and for More details is provided in the process of measuring scalability and the inter-coder reliability. It makes more reliable and extensive study of related work, including a specified requirements considerations.

II. RELATED WORK

The way we are generated and created the Goal Oriented Requirement Engineering Process has the roadmap by specifying and adopting the different techniques, methods and approaches prescribed by the following related workers. Petersen K, Feldt R, S. Mujtaba, and M. Mattsson, 2008 Goals have been brought into Requirement Engineering activities for a number of reasons where customer or consumer satisfaction regarding their needs and intentions is one out of many. Requirement engineering is a process of defining, documenting and maintaining requirements in the engineering design process.The quality of a software system critically depends on the degree of which it fulfills its requirements. Systematic Mapping studies in Software Engineering.Amyot D, Mussbacher G (2011) User requirements notation of graphical user interface of requirement engineering. A systematic review of goal-oriented requirements management frameworks for business process compliance. Damian D, Daneva M, Marchetto A, Pastor O (2014), The Empirical Research Methodologies and the related studies in Requirements Engineering Process. A M Sen, S K Janin A Visualization Technique for Agent Based Goal Refinement to Elicit Soft Goals in Goal Oriented Requirements Engineering. GORE is a Unifying Framework.

Mapping study is a research method or review where all kind of informations are gathered in decision making. Qualitative methods in empirical studies of software engineering and the Non-functional requirements in software engineering involves in the Conceptual modelling Foundations and Applications. A systematic review of Goal-Oriented Requirements management frameworks are used for the business process compliance and the Languages includes the concept of goal as a first class object, are graphical notations.

III. COMPARATIVE STUDY

S.NO	Authors / Year	Title	Techniques	Support	Problem
1	K. Petersen, K. Feldt R, S. Mujtaba, and M. Mattsson, 2008	Systematic Mapping studies in software engineering	Systematic Mapping Study	Mapping study is a research method where all kind of informations are gathered in decision making.	Quality of software system critically depends on the degree of which it fulfills its requirements.
2	Amyot D, Mussbacher G (2011)	User requirements notation of requirement engineering	Graph theory	Languages includes the concept of goal as a first class object, are graphical notations	Not suitable for unauthorised textual method
3	Ghanavati S, Amyot D, Peyton L (2012)	A systematic review GORE management frameworks for business process compliance	Data Intensive method	supports organizational modeling focusing on decision modeling and decision makers.	The No use in Real time Systems
4	Paolo Denzelli, Paolo Bresciani (2003)	Goal -Oriented Requirements Engineering: A Case Study in E-Government	Case study	Understanding goal dependency. quick achievement of goal by achieving its sub goals contribution values.	Long sprint sessions due to large number of stakeholders
5	A M Sen, S K Janin (2015)	A Visualization Technique for Agent Based Goal Refinement to Elicit Soft Goals in GORE.	Visualization Technique	Constructed models are hard goals and soft goals, tasks.	an abstract model may go unquestioned
6	Daneva M, Damian D, Marchetto A, Pastor O (2014)	Empirical research methodologies and studies in RE.	Reaearch methodology	Identification of Varying goal level.	Only domain level application is involved
7	Evangelia Kavakli (2002)	Goal-Oriented Requirements Engineering: A Unifying Framework	Frameworks	Understanding whole system in easy ways of models	Can only be used in early stages of RE.

IV.CONCLUSION

We have concluded the first general systematic survey of GORE. Knowledge of the field, we have made our publication data. We have chosen to give an overview of the field using a SMS, with descriptive graphics GORE- related research encourage further analysis, investigation, and expansion of our data. Requirements for decision making often refer to information that does not exist in required form, and must be derived from data sources. To conclude that give an overview of the field using a SMS, with descriptive graphics. We have focused our enquiries and procedures with a number of specific research questions, and used our results to make general recommendations and considerations for future Goal Oriented Requirement Engineering related research work.

REFERENCES

[1] Amyot D, Mussbacher G (2011) The User Requirement Notations: The first ten years, The next ten years. J Software6(5):747–768

[2] A M Sen, S K Janin: "A Visualization Technique for Agent Based Goal Refinement to Elicit Soft Goals in Goal Oriented Requirements Engineering", Second International Workshop on Requirements Engineering Visualization Oct. 2015, pp.2.

[3] Damian D, Daneva M Marchetto A, Pastor O (2014) the Empirical Research Methodologies and studies in requirements engineering: J software 95:1–9

[4] Evangelia Kavakli ,(2013) "Goal-Oriented Requirements Engineering: A Unifying Framework", Requirements Engineering Journal, Springer London, 2002, pp.237-251.
[5] Ghanavati S, Amyot D, Peyton L (2012) A systematic review of goal-oriented requirements management frameworks for business9 process compliance. In: RELAW, pp 25–34
[6] Paolo Denzelli, Paolo Bresciani (2003), Goal -Oriented Requirements Engineering: A Case Study in E-Government.
[7] Petersen K, Feldt R, Mujtaba S, Mattsson M (2008) Systematic mapping studies in software engineering.In: EASE, pp 68–77
[8] Regev G, Wegmann A (2005) Where do goals come from: the underlying principles of goal-oriented requirements engineering. In: RE, pp 353–362
[9] Rolland C, Salinesi C (2005) Modeling goals and reasoning with them. In: Engineering and managing software requirements, pp 189–217
[10] Horkoff J, Li T, Li FL, Salnitri M, Cardoso E, Giorgini P, Mylopoulos J, Pimentel J (2014) Taking goal models downstream: a systematic roadmap. In: RCIS, pp 1–12