CHAPTER 7

Conclusion and Future Work

7.1 Conclusion and Future Work

The agile software process is suitable for the current situation of software industries. It can handle often changing requirements which provide enhancement to the product at the time of release. As we have seen, while handling the frequent changes in requirements, prioritization of requirements plays a crucial role. A large project team doesn’t give the required results, so there should be a minimized number of people who must work as collected team who can use agile as light, as well as fast circumstances permit by having actual communication, unified community, frequent wins and gathering feedback from wins and failures. B-Tree, clustering schemes, and machine learning techniques are effective in reducing the number of comparisons performed to prioritize requirements.

Each of the proposed processes has shown their performance higher than existing prioritization methods. Revised Scrum method uses staging priority to manage both the stakeholder and companies priorities. While WhaleRank optimization has used different ranking methods and a linear model which gives a final rank for every requirement. Whereas in Apriori, with finding the prioritized requirements, we got the relation between the prioritized requirements which shows a greater advantage of using this process. Multi-voting method prioritizes the requirements in an effective way and uses binary search tree to show the priorities in an efficient manner. These all proposed methods are effective and efficient in prioritizing but had their own significance and advantages.

If we are able to overcome the problem of prioritization in requirements, it will lead to higher rate of software project success. This improves the organization and technology simultaneously. Much easier than other methods, data mining algorithms and machine learning algorithms can be very helpful in our problem. By using those, we can see the predicted accuracy, efficiency etc. at the stage of analysis with the help of mathematical relation and numbers obtained from those algorithms and methods.

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