

# Decision Style for Feedback Approach

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**Abstract**— These Decision making is an important real-world problem alternatives are prioritized and based on one or more criteria decision goal is achieved. Decisions are taken individually or in groups. In the latter case, decision making is referred to as group decision making. In this paper decision support system for feedback mechanism is developed. The questionnaire for the feedback is prepared. Each question is evaluated on given scale value. The criteria to answer the questionnaire are assigned the value and these values are finally added to get the score.

**Keywords**— Decision, Styles, Feedback, Questionnaire, Scores.

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## I. INTRODUCTION

Decision making is an important real-world problem where the available alternatives are prioritized and ranked based on one or more criteria to meet a decision goal. Decisions are taken individually or in groups. It is just not decision making only but also need to have the logic and calculations. [1][2] Any decision without these two components cannot be called as appropriate decision making. Decision making must follow some sequence and process to get the effective results. If it is unstructured then obviously it will produce unproductive results. Decision support system has important component: the Knowledge base. Knowledge base is place where the decision support system stores the knowledge. Here knowledge it means that rules, heuristic, boundaries, constraints, previous outcomes and other information programmed into DSS by decision makers. Decision making is referred to as group decision making. Decision making involving more than one criterion is called multi-criteria decision making.[3][4] Decision making characterized by an uncertain environment in which there is uncertainty on the part of the decision makers is called decision making under uncertainty. So Decision making plays a very significant role in the life cycle of individuals, organizations, and even nations. The life-cycle of these entities is marked by a series of decisions, a series of choices at different stages. Individuals and organizations have often credited their success to having taken the right decisions at the right time. Good decision making is about making the right choice from the available alternatives to achieve the decision outcome [5]. Good decisions are important because of the risks and costs associated with bad decisions. Formal decision making methods have been developed to support good decision making by decision practitioners in their trades. These formal methods are generally applied in high stakes decision making

application areas like planning, prioritization, resource allocation etc. They provide a framework for structuring decision problems. They assist the decision maker in entering vital decision related information [6] they make use of state-of-art algorithms for computing important decision related parameters. That said, good decision making remains as much of an art as it is a science. Good decisions are as much a result of experience, insight, foresight, intuition, and vision of the decision practitioners as they are of formal methods, and advanced analytical, mathematical and computational tools, which are decision aids at best.[7] An aid or a tool is as good as its user and all indications are that the human element in decision making i.e., the decision practitioner shall remain its central element Component of Decision support system also include is data management system and model management system, user interface and the users. Decision making is done by the decision makers. Decision maker role in the process of decision making is vital. They are the participant in all the steps of the decision process. To take better decision the factors that influence the decision makers is their behavior. And that important area focal point is decision style. In decision style Context, Perception and Values are the important factors that evaluate the decision. Decision maker has to analyze these component which making the decision. A balance of these components is to be maintained.[1][8] Other factors such as perception and personal values forms permanent framework and influences a human being's actions and the approach in which he or she makes decision. Decision style classified into Directive, Analytical, Conceptual and Behavioral[1]. Using these four elements optimize solution is achieved by choosing the alternatives that is clearly the best in providing the overall value and outcome.

**II. PROPOSED METHOD**

**Decision Styles for Feedback Problem**

Decision making can be of great help for solving the Feedback problem for any kind of training or workshop. *Feedback is a fundamental part of communication.* If the feedback is positive it motivate the people to work more effectively and if it is negative it makes us sure that improvement is required for great performance. It gives direction and indicates the mistakes present in the system and the process. Do not take the feedback mechanism as disapproval rather is a supporting aspect that leads for better performance. It's a process of learning and evaluating the ongoing process. Every training and workshop had very important part that is feedback. Feedback is not restricted to one particular domain. It can be considered for organization where employee gives their feedback based on their personal experience. Feedback mechanism and other organization take lots of effort and use the resources to effectively implement the cost in order to maintain the content inventory. They use various paradigms and try effectively to evaluate the content for the smooth running and populating the effect of decision making in this area. In this paper content a set of is prepared. The questionnaire contains the questions based on various subject basically 1) Logical 2) Conceptual 3) Directive 4) Behavioral [1]

1. Analysis based on actual actions and event
2. Expert Trainer provided surplus support during the learning hours
3. Expert able to explained explicit about the content,
4. Expert had an outstanding information of course cont
- 5Expertable to convert the interesting course content
6. Approach of assessments used were hands on
7. Student able to developed skill expected from this workshop

<p><b>Analytical</b></p> <ul style="list-style-type: none"> <li>• Enjoy problem solving</li> <li>• Wants best answer</li> <li>• Thrives on Control</li> <li>• Enjoy Variety</li> <li>• Innovative</li> <li>• Use great care in analysis</li> </ul>	<p><b>Conceptual</b></p> <ul style="list-style-type: none"> <li>• Achievement Oriented</li> <li>• Generally broad outlook</li> <li>• creative</li> <li>• Humanistic</li> <li>• Regularly initiates new ideas</li> <li>• Futuristic thinker</li> </ul>
<p><b>Directive</b></p> <ul style="list-style-type: none"> <li>• Expects results</li> <li>• Aggressive nature</li> <li>• Trends to react quickly</li> <li>• Relies heavily on rules</li> <li>• Intuitive in nature</li> <li>• Verbal communicator</li> </ul>	<p><b>Behavioural</b></p> <ul style="list-style-type: none"> <li>• Generally supportive</li> <li>• Very Persuasive</li> <li>• Empathetic nature</li> <li>• Good communicator</li> <li>• Generally prefers meetings</li> <li>• Relies on limited for analysis.</li> </ul>

*Fig. 1. Decision Style Model*

These questionnaire are evaluated on the various parameter such as are technical and well defined, Included variation , boundary less , Involve students, creative , Highly competent, dedicated and receptive, friendly discussion , handy results, the best solutions , new innovative ideas, healthy surroundings , on a direct one-to one basis, in writing, by having group discussion, in a formal meeting, recent issues, objectives achievement , potential goals, developing people careers, clear agenda, explanation, usage of new technology aids, visuals and videos, active learning strategies etc. The given questions are mapped with the given parameter and evaluated. For answering the question will use the scale of 9 when the question is most like, 6 when the question is moderately like by you, 3 for the question slightly liked by you and 1 for the question is least like by you.

Scale Value	Meaning
9	When the question is most like
6	When the question is moderately like
3	When the question slightly liked by you
1	for the question is least like by you

Now each of the scale value is entered against each question for the answer based on the decision taken. These scale values are not to be repeated for the same question. Every question before answering need to be analyzed and framed so that the proper feedback mechanism be chosen based on the basis of decision support system. As far as the time taken to answer each question is not restricted to any specific time limits. Careful answering of each question is very important in order to achieve the high evaluation result. Finally total points in each box are added. The box with the highest value gives the score of all the parameters given. Highest value gives maximum priority. Based on the given feedback score we need analyse the result.

**III. CONCLUSION**

Decision styles for feedback mechanism provide actionable imminent enhances user experience. Through this process the tangible data are produced that can be used to make better decision making in any area where it can be applicable. The proposed method is quite simple and effective. Since the result is based on the score so it is appropriate to make the decision on qualitative and quantitative aspects. The proposed method also helps the

decision makers to make the decision in efficient way so that it can help the feedback mechanism in better way.

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