

Artificial Intelligence Project Management

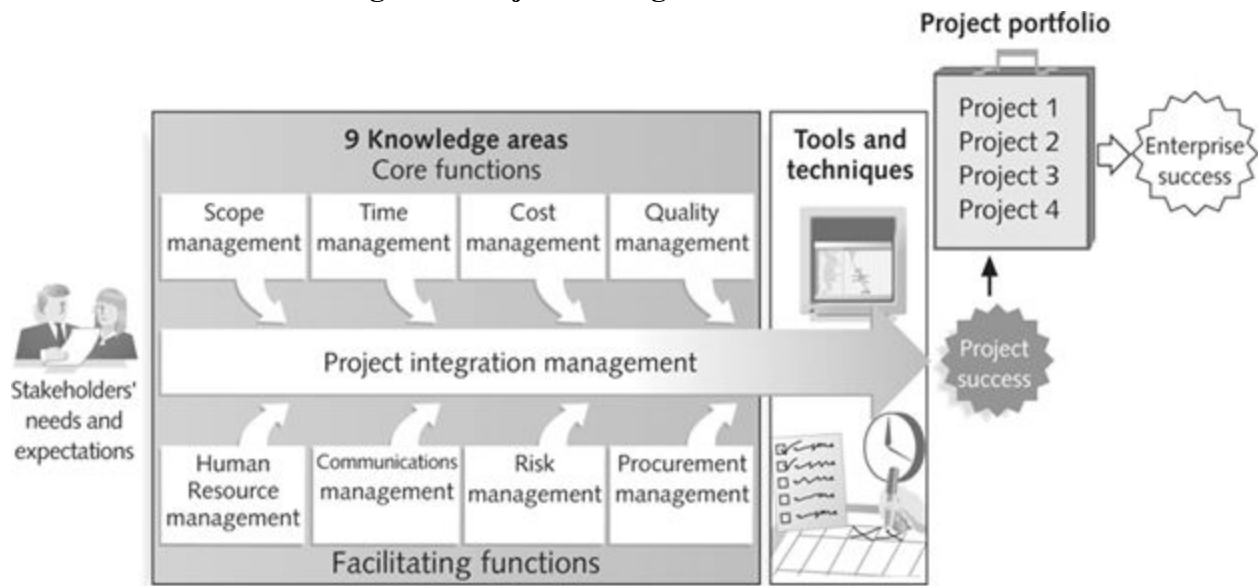
Lab 1 – Project Management Framework

1. Group Members

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- Title : Gender Recognition Fuzzy Inference System
- Project Manager : Muhammed Hussain Bin Hithayatullah
- Based on the lecture slides and related information given in ulearn, discuss the **Project Management Framework** as shown in **Figure 1** when relate to **Artificial Intelligence Project Management** and the chosen title as in step no 2.

Figure 1 Project Management Framework



Scope Management

Scope Management is about managing our project scopes and making sure the team is aware of the scopes of our project. The main scope is to build a gender recognition Fuzzy Inference System based on the acoustic properties of human voice. Beside that our scope is for identifying gender of people only by using their voice as input.

Time Management

Time management is one the triple constraints of project management and one of the facilitating functions in the Project Management Framework. It is important to manage time properly to produce a successful project. For our Gender Recognition Fuzzy Inference System, we discovered that in order to complete our projects in time, we have to define the activities related to our project and estimate the time required for each activity. This can be done by creating a Work Breakdown Structure (WBS) and converting it into a useful Gantt Chart for scheduling purposes.

Human Resource Management

Human resource management involves managing and organizing the team. To manage a project team successfully, each team member must have a clearly defined role such as Project Manager. In our case, the current roles are:

- Project Manager: Muhamed Hussain Bin Hithayatullah
- Project Team: Ramanan Gobalakrishnan
- Project Team: Rheshwan Raj A/L Ravichandran
- Project Team: Muhammad Naim Syahmi Bin Roslan

Cost Management

Cost management is very important to a project as it will decide whether the project makes or breaks. There are 4 parts to cost management. Firstly, Project Resource Planning where for Gender Recognition Fuzzy Inference System it will be identifying the resources needed to create such a system by using a suitable data set. Next is Cost Estimation where the cost of all the resources is taken into consideration to create a project. Followed by Cost Budgeting where the cost needed to complete the inference system is estimated. Lastly, Cost Control is where taking action and changing the budget or changing the workload for developers according to the demands of the customer.

Quality Management

Quality management in the inference system is where the integrity of the project has to be upheld as long as the project is available for customer use. For example, the inference system has to be consistent and work the same for all possible outcomes. It should not malfunction and create different results for different instances. A quality policy and quality planning and assurance is created to maintain the quality of the inference system.

Communication Management

Communication is a tool for communicating with our team mates. Based on communication a project can either be exciting to work on or can be a total failure. To make sure to complete the project successfully each team member communicates and trusts each other. In this Gender Recognition Fuzzy Inference System, once the project is finished, each team mates must communicate with each other and provide feedback on the project and determine if they are satisfied with the outcome.

Risk Management

Risk management is the process of identifying and evaluating and controlling threats to our Gender Recognition Fuzzy Inference System, not to mention checking whether we have the suitable budgeting and a legal license to run the Gender Recognition Fuzzy Inference System. Not only that but errors made by the management and outside threats such as hackers and data miners should be taken into consideration to prevent the users from having a bad experience from using the Gender Recognition Fuzzy Inference System. Taking the steps needed to prevent it such as having good management and good security is one of the examples to handle these situations.

Procurement Management

The procurement management focuses on acquiring all the necessary resources and products to ensure the successful completion of our project. The procurement management involves planning what products to acquire and administering the procurement. An example in our case involves procuring the large dataset required to develop the Gender Recognition Fuzzy Inference System. Since most high-quality datasets are proprietary and only available via purchase, proper procurement management also involves cost benefit analysis, cost utility analysis, and risk analysis to ensure successful acquisition.

Tools and Technique

1. Microsoft Project - To assist in managing the schedule and time
2. Microsoft Word - To prepare important document and report related to the project
3. Microsoft Powerpoint - To present our project to the client
4. Microsoft Excel - To a prepare project schedule and gantt chart