UNIVERSITÉ DE BOURGOGNE

Master IN COMPUTER VISION AND ROBOTICS

PROJECT REPORT-COMPUTER SCIENCE

PROJECT TITLE: "3D Scanner "

Group NAME
Group 2

CO-ORDINATOR
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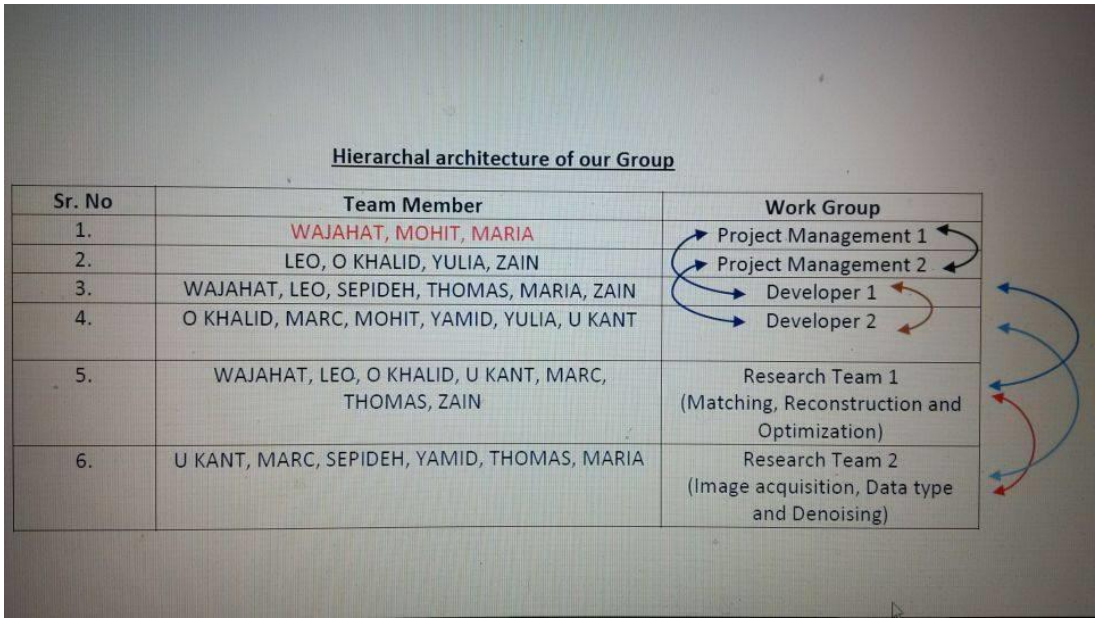
Summary

To remain illustrative, Creative, restricted and focused on developing some rich High quality and affordable 3D Scanner, we all camed up with different implementation techniques to develop a fully working software which should be able to replace the software already used by the company but in order to know which technique is better we have started working on the things which have already been implemented and once we get the idea what people have done to make 3D scanners we will be able to develop something which has more efficiency , better quality, affordability and optimization , So to do that we have divided our group in different Categories with team of developers, researchers and Project manager for long term whose division is given below.



Hierarchal architecture of our Group

Sr. No	Team Member	Work Group
1.	WAJAHAT, MOHIT, MARIA	Project Management 1
2.	LEO, O KHALID, YULIA, ZAIN	Project Management 2
3.	WAJAHAT, LEO, SEPIDEH, THOMAS, MARIA, ZAIN	Developer 1
4.	O KHALID, MARC, MOHIT, YAMID, YULIA, U KANT	Developer 2
5.	WAJAHAT, LEO, O KHALID, U KANT, MARC, THOMAS, ZAIN	Research Team 1 (Matching, Reconstruction and Optimization)
6.	U KANT, MARC, SEPIDEH, YAMID, THOMAS, MARIA	Research Team 2 (Image acquisition, Data type and Denoising)

Figure :1

but this team division is for long term but for short term to start the project group of 12 people have been assigned 3 different tasks to search for in order to proceed. One team is working on installing libraries and searching for the things which are already been implemented such as **Kinect Fusion** and helping all the other team members to install libraries and configuring them in their systems.

Second team is working on implementing basic functions in PCL library in order to understand how the functions are working in coordination of third team who are researching on techniques used for building 3D scanners architecture and the important steps from which we have to pass in order to get the final results. we are also considering and comparing the things which company has already in their software called **skanect** and what extra features that can be added in order to make it better than their current software and the requirement mentioned in the Project Proposal.

1. Work done and Problems:

As different teams are divided in different groups and they are working on different task so far we are able to install library in system of all members in Windows and few systems in Ubuntu with few errors still need to be solved depending on the compatibility of QT with Visual studio.
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2. Goals/Objectives:

Our main idea to start is to understand what is already been implemented and what customer needs and what need to be develop in order to successfully complete the task given. (focusing for techniques such as dynamic fusion etc.).

3. Procedures/Scope of Work:

The Project will be done after going through different steps firstly by basic handling of all the functions using different libraries and understanding them, Then Designing the interface and lastly adding additional features in the software to make it more user friendly with aim to develop an app of the software and made it work with different sensors.

Timetable:

Provide detailed information on the expected timetable for the project.

Phases	Description of Work	Start and End Dates
Phase One	Function Handling	October
Phase Two	Designing Interface	November
Phase Three	Additional Features	December

END!