
Bi-Weekly Report 1

3D Reconstruction File Damaged Parchment

Date: 20th October 2017

Team 35

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OVERVIEW

These previous two weeks have been the first two of our project. Hence, we have dedicated our time mainly to gain understanding of our team, client and requirements of the project. We believe we have now a solid idea of our goals and a primal view of our capabilities. However, we understand that once we put ourselves through the practical process of developing and working with different and new technologies, we will need to gradually adapt these views to plan more realistic objectives.

We have also dedicated part of our time to create the webpage which will reflect our progress and the HCI assignment (which we also started working on).

MEETING SUMMARY

During this first meeting with our client, we were introduced to an overview of the project, including:

1. An overview of the history of related previous projects and research, connecting these with the current state of the project at hand.
2. The main vision and problem to solve which led to our involvement in creating a solution for it.
3. The intended target user base, including previous financial investors and early testers.
4. Current used technology, its limitations and the challenges they will propose to us.
5. A technical background of the research and algorithmic solutions behind the software implementation.
6. A live demonstration of the results of such algorithms.

In this meeting, we also talked about our expectations and next steps. We agreed to provide the client with a list of deadlines and milestones, as well as proceeding in trying to compile the original code we need to embed in the webpage.

TASKS COMPLETED

1. We held our first meeting with the client. This meeting was originally scheduled for a different date, and had to be rescheduled for the following Monday.
2. We investigated the client's previous research and technologies used for the development of the algorithms we will be using in this project.

3. We began working on the HCI assignment, creating the material which will later be embedded on the webpage.
4. We began developing our webpage for the HCI assignment and our records of the project (including the weekly report).
5. We created some of the pipelines required to compile the code produced by the client's previous research, which we will work with later on in the project.

PLAN FOR NEXT TWO WEEKS

1. Having successfully compiled the existing code provided by the client.
2. Having finished the HCI assignment.
3. Having developed our webpage to host the HCI assignment and this report.
4. Having interviewed a representative from the target users.
5. Having held a second and third meetings with the client.

REFLECTIONS

Wanyue: during the past two weeks, I met my teammates who were really passionate about the project. To prepare for our first meeting with Prof Tim Weyrich, I read the paper titled 3D Reconstruction for damaged documents: imaging of the Great Parchment Book. Our Monday meeting helped me to gain a better understanding of the algorithms for reconstruction, goals and impact of our project. After the meeting, I created a Google Drive to facilitate document sharing within our team. Our team is currently working on compiling the source code as well as the HCI assignment which is due 31st October.

Ionut: Bearing in mind the limited knowledge of the requirements and of the engineering problem itself, as well as my personal modest experience with projects of this calibre, I decided on thorough research and incisive analysis of the subject to cover the two inception weeks. New to image processing and all the technology that revolves around it, I found it challenging to even understand the underlying concepts of the research, but the brief introduction that the professor made on the project helped to clarify most of the elements. For the rest of the fortnight I've been focusing on the compilation of the program given, as it required installing some libraries and software that I'm not familiar with, while consulting and working with my teammates on the report and general common difficulties.

Sergio: These first weeks have served us as an opportunity to introduce ourselves into the subject, first by individual research made to gain essential understanding of the project's main topics, and second by having a first meeting with our client. I researched into the topic of 3D reconstruction and 3D modelling before our meeting with our client, including the research paper published by Prof Tim Weyrich in which our project will be based. I also dedicated my time to write several sections of this report, as well as meeting with my team to advance our progress regarding the HCI assignment.