

Meeting Agenda with Domain Experts

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January 4, 2021

1 Introduction

Presenter: [TBD —AD]

A brief introduction to the project. [To be written —AD]

1.1 3 Steps for Domain Experts

The domain experts are expected to participate in the following 3 steps:

- Step 1 - introductory meeting. This is our current meeting, which will last for about one hour.
- Step 2 - measuring. Usability experiments, modifiability experiments, and developer interviews are included in this step. More details will be discussed later in Section 2.
- Step 3 - concluding meeting. Our second and the last meeting, aiming to be one hour in duration. Results of ranking will be discussed.

1.2 About this Meeting (Introductory Meeting)

Presenter: [TBD —AD]

The meeting will be roughly one hour. We will follow this document and go through all the steps.

In the interest of time, some topics will only be discussed briefly during this meeting, and tasks will be assigned to domain experts to finish later. For example, Task B.1 in Section 2.3.

We will create issues on GitHub to track the progress of the tasks. Details can be found in Appendix A. The tasks can also be found in Appendix B.

1.3 Project Objectives

Presenter: Dr. Spencer Smith and Dr. Jacques Carette [TBD —AD]

The overall objectives are documented in the section Overall Objective of [Objectives And Research Questions](#).

A brief introduction. [To be written —AD]

1.4 Research Proposal

Presenter: Dr. Spencer Smith [TBD —AD]

The research proposal is documented in [Research Proposal](#).

A brief introduction. [To be written —AD]

1.5 Research Questions

Presenter: Dr. Spencer Smith [TBD —AD]

The research questions are documented in the section Current State of the Practice Research Questions of [Objectives And Research Questions](#).

A brief introduction. [To be written —AD]

Do you have any thoughts on one of the questions - What are the “pain points” for developers working on SCS projects? What aspects of the existing processes, methodologies and tools do they consider could potentially be improved?

2 Qualities & Measurements

2.1 Measurement Template

Presenter: [TBD —AD]

The template for software quality measurements can be found at [Measurement Template](#).

2.2 Survey for Short List Projects

Presenter: [TBD —AD]

After the first round of measurement, we would like to select a short list of projects (about 5 to 10 of them for each domain) and directly ask questions to the developers.

Considering the fact that some development teams may ignore our requests for this interview, We would like to send invitations to all of the teams developing the software packages in the list. We estimate that there will be a smaller proportion of them accepting our request. What do you think of this process?

The survey questions to the developers can be found at [Questions to Developers](#).

We also would like to ask the domain experts a modified version of the above questions. The purpose will be to learn how our domain experts and their students create software. If

we time it right, the interview with the domain experts is also a chance to do a dry run with our questions.

2.3 Usability Tests

Presenter: Olu [TBD —AD]

A brief introduction. [To be written —AD]

The usability test can be found at ... [TBD —AD]

Do you have any suggestions? Feedback can be provided later in Task [B.1](#)

2.4 Modifiability Experiment

Presenter:

A brief introduction.

The usability test can be found..

3 Software List

Presenter: Ao or Peter [TBD —AD]

In this section, we would like to discuss the list of software packages and the process of creating and shortening it.

3.1 Top 10 List

What will be the top 10 software of your choice? Feedback can be provided later in Task [B.2](#).

3.2 Software List

The software list is [Medical Imaging Software List](#) or Lattice Boltzmann Solver List. [TBD —AD]

What do you think of the list of the selected software?

Is there any software you would like to remove from or add to the list?

Feedback can be provided later in Task [B.3](#).

3.3 Domain Analysis

The domain analysis can be found in Section 3.2 of [SRS for Medical Imaging Software](#) or [CA of Lattice Boltzmann Solvers](#).

What do you think of our analysis? [This is too big a question for the domain experts to answer in a reasonable amount of time. Moreover, without more guidance their feedback is likely to be shallow. I think we are better off with a task based inspection, using issues

assigned via a GitHub project page. We also will likely be more successful asking for reviews from grad students, rather than from faculty members. We should also consider summarizing the commonalities, variabilities and parameters of variation in tables, or possibly graphs. — SS]

3.4 First AHP Ranking

Presenter:

- A brief introduction.
- Do you have any feedback?

3.5 Final AHP Ranking

Presenter:

- A brief introduction.
- Do you have any feedback?

4 Publication

Presenter: Dr. Spencer Smith and Dr. Jacques Carette [TBD —AD]

- Where should we publish this paper?
- Who are our targeted readers?

5 Schedule & Team

Presenter: [TBD —AD]

- We propose to start this project from ... and finish it before What do you think?
- Our meeting schedule is ... does it fit your plan?
- We need ... extra members from your team, each working ... hours per week for ... weeks. What do you think?
- Are there any other experts you think we should keep them involved?

A Project Management Tools

We would like to use GitHub for task tracking and document version control. The repository for this project is <https://github.com/smiths/AIMSS>.

Tasks will be created as issues on the repository and assigned to individual stakeholders. An open issue usually means a task to be fulfilled, and it can be closed once it is finished. Here is an example of an issue <https://github.com/smiths/AIMSS/issues/19>.

B Tasks for Domain Experts

B.1 Review the Usability Tests

GitHub Issue: <https://github.com/smiths/AIMSS/issues> [To be created —AD]
Refer to Section 2.3

B.2 Create a Top 10 List

GitHub Issue: <https://github.com/smiths/AIMSS/issues> [To be created —AD]
Refer to Section 3.1

B.3 Review the Software List

GitHub Issue: <https://github.com/smiths/AIMSS/issues> [To be created —AD]
Refer to Section 3.2

B.4 Review the Domain Analysis

GitHub Issue: <https://github.com/smiths/AIMSS/issues> [To be created —PM]
Refer to Section 3.3

B.5 Review the AHP Ranking and Short List of Software Packages

GitHub Issue: <https://github.com/smiths/AIMSS/issues> [To be created —PM]
Refer to Section 3.4

B.6 Comment on Final Short List Ranking

GitHub Issue: <https://github.com/smiths/AIMSS/issues> [To be created —PM]
Refer to Section 3.5