

Report on how the requirements were gathered and elicited

Successful implementation of this report about how our requirements were gathered and elicited will result in a clarification of the software elements of the system, as well as a definition of the interfaces of the system's software elements and features. The software engineering team will keep the requirements updated as needed, while prioritizing the implementation of completely defined ones.

Inception, Elicitation & Requirement Gathering Techniques

Considering the requirement engineering process, the main goals of the inception and elicitation tasks are achieved through a poll (photo attached below) the team conducted to gauge interest for the project idea of a study buddy system. The poll asked the student body whether they would be interested in an app that finds a studying partner for them based on their studying preferences. This statement concisely summarizes the objective of the system. The high response rate from the students in the poll over a three day span showed the team that the student body is interested in our system providing them a solution of facilitating their studying process. The poll is considered to be a questionnaire style requirement gathering technique. Future questionnaires may be conducted to collect a greater breadth and depth of information from the student population after alpha testing. This will also help increase user involvement. When the system is being offered as a product to other universities who will be our clients, the process of elicitation will be reconducted for the system to become customized according to the university's objectives, long term goals, and how it fits their specific needs.

Negotiation

Gaining agreement among multiple stakeholders/customers with diverse expectations might be challenging. Throughout the negotiation phase which has been conducted and will be conducted once again when the team is marketing our product to other educational institutions, we will make sure that the universities decide on the most important requirements. Both software engineers and clients would agree on having flexible contracts, cost effectiveness and compliance with standards. Analysing the student's poll, we could conclude that they want quite an early availability and high level of service. Through discussing with some students, we found at first that the students wanted to be able to have video calls built in the Study Buddy website. Identifying opposed interests is crucial for project success. By considering the limitations of our development team in terms of time and skills, we developed a mutually beneficial and acceptable agreement of not including the video call option within our website for the time being. Although we conducted the negotiation phase early on, it should be repeated later throughout the process.

Elaboration & Specification

As for the elaboration and specification tasks, our current project timeline is set such that use case diagrams and other diagrams will be developed in the near future during course deliverable #3, and hence, once those diagrams are created, the team will have identified the user scenarios more clearly to perform the elaboration and specification tasks. Once those tasks are conducted, the system requirements and the software requirement specification (SRS) will be revised and updated if needed, and that will then create a firm base for the system's design through a more refined requirements model.

Validation

Software requirements are categorized and analyzed for correctness and verifiability, as well as their impact on the operating environment. We will do different validity checks, making sure that the functions proposed by stakeholders are aligned with what the system needs to perform. By considering consistency checks, we will ensure that requirements in the document don't conflict or have a different description of the same function. Additionally, we will ensure that the requirements can actually be implemented using the knowledge of existing technology, the budget, and schedule. Throughout the project life, we will be conducting a variety of different testing techniques, like static and dynamic testing, to make sure that software is developing according to specifications, performs as expected and has no logic or other errors when it is run. For static testing, we will test the code by using software tools to test the source code for quality, efficiency and interactions among the different modules of the programming code. By creating a validation plan that consists of a description of the system, environment specifications, assumptions, limitations, testing criteria, acceptance criteria, identification of the validation team including the responsibilities of each individual, required procedures, and required documentation, we will be able to execute the tests accordingly. Once testing is completed, procedures for system use and administration will be developed or revised. Then, prior to the system being released for use, a final validation report will be produced, reviewed, and approved.

Requirements Management

The requirements management task is performed through the team's consistent revising and checking of requirements with each course deliverable in the project timeline, and updating the SRS and systems request template accordingly.

We are curious to know if you would use an app that finds you a study buddy/group based on your studying preferences? [Aiša Hodžić](#) [Hessa Bani Hammad](#) [Dania Hesham](#)

<input type="checkbox"/>	Added by Nađa Fejzić Yes!!	 ... 90 votes
<input type="checkbox"/>	Added by Nađa Fejzić Maybe 🤔	 ... 14 votes
<input type="checkbox"/>	Added by Nađa Fejzić No 😞	 ... 8 votes

*Poll conducted on NYUAD students' main Facebook group.
Results collected within 2 days.*