

Fifth project milestone: Test

The goal of this milestone is to design an experiment to evaluate and test different parts of your application.

Here is what you need to do:

1. **Determine your hypotheses.** These are very specific instantiations of some of your evaluation goals. They need to be testable. You should come up with 3 hypotheses.
2. **Consider your intended participants (5 to 10 participants).** You can use your family/friends as your participants.
3. **Create all the study instruments you will need.**
 - a. These will include post-study questionnaires: 8 to 10 questions about their experience with your application
 - b. Pre-study questionnaire: 8 to 10 questions containing demographic questions, and their previous experience with a similar application(s)
 - c. Observation sheets: what you want to record from the user behavior
4. **Prepare the scenario of the study:** e.g. what is going to happen when your participants arrive, what task they are going to do? When you are giving them the questionnaire, etc.
5. **Conduct the study and collect all the above data for each participant.**
6. **Write a report.** The report should follow the specified template below.
 - a. **Short description of your application and its goals** (2 points)
 - b. **Hypothesis:** explain each hypothesis in 1 paragraph (6 points)
 - c. **Describe your participants:** The average age of your participants, the gender distribution and other details that help the readers to know your participants. (You can use charts to show these data) (5 points)
 - d. **Describe the experiment in 2 paragraphs:** what happened in each session of your study? (10 points)
 - e. **Questionnaires:** report the questionnaire and the participant's answers. If you used the Likert scale answer for any question, report the number of answers and the average of the answers. For descriptive questions, report the summary of participants' answers and write 2 to 3 examples. (12 points)
 - f. **Discussion:** For each hypothesis, show that either your hypothesis is approved or rejected based on the collected data from your study. (12 points)
 - g. **Team Members' Contribution:** use a few sentences to describe what each member has done. (1 point)

Total: 48 points