

Assignment 6

Individual reflection report

IT3010 Research-based Innovation Methodologies
in Computer and Information Science¹
(Spring 2022)

Contribution to final grade	35%
Deadline	May 19 th , 2022
Maximum word count	1500
What to deliver	One PDF file in Blackboard

Learning objectives in focus²:

Learning objective	What you will learn
All learning objectives	You will learn to reflect on your own research and show what you have learned from conducting a research project.

¹ <https://www.ntnu.edu/studies/courses/IT3010>

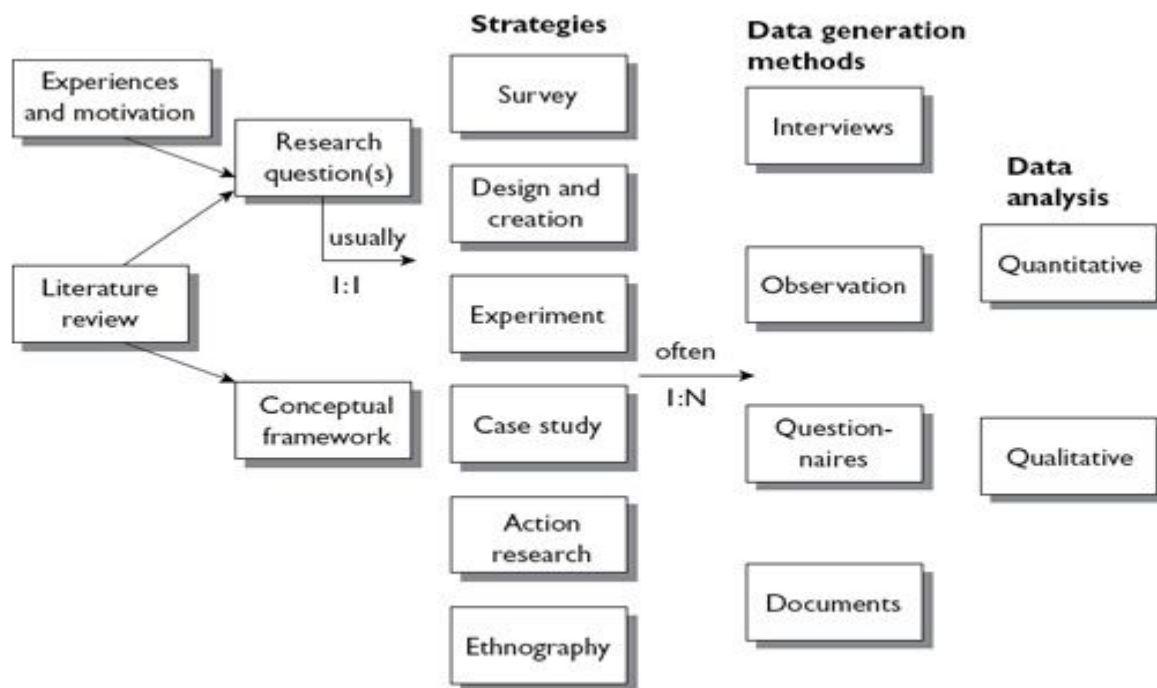
² See Blackboard for an overview of learning objectives. This overview also shows you what part of the syllabus can help you achieve the learning objective.

Introduction

Remember that this is an **individual assignment** and not a group assignment. Each of you should deliver your own assignment. Upload one PDF file with the proper front page information in Blackboard.

Guidelines

The goal of this assignment is for you to demonstrate your understanding of the major concepts from the course. The assignment is based on our textbook (Oates 2007), and in particular Figure 3.1 from the textbook (see below). You will reflect on how your group has used each part of this research framework compare to what the textbook recommends. You will also reflect on what you have learned regarding each part.



Here are some examples of topics you can discuss in your assignment (choose your own topic from the list or discuss other topics from the textbook):

- The role of experiences and motivation in your research project.
- The role of research literature and conceptual frameworks in your project.
- The process of creating research questions, and the role research questions played in selecting a research strategy.
- The process of selecting a research strategy and data generation methods. For instance, why did you chose a specific strategy and data generation method combination, and what do you think about your choice now?

- Your data analysis process and how your results address your research questions.

We also want you to reflect on the **validity** of your conclusions (e.g., their internal and external validity). Remember that different research designs have different validity requirements. In your assignment you should answer the questions: 1) how valid are our conclusions from my group's research project? And 2) how could their validity be increased by altering our methods and processes?

Evaluation criteria

You should think of reflective writing here as consisting of three parts: 1) Your recall of what happened, 2) the theory from the book, 3) your personal reflection of how the two relate. You should also be forward-looking. How could things be improved?

Here are more specific criteria for this assignment that course staff will be used to evaluate you:

- Use of the textbook: Is the candidate able to use the relevant parts of the textbook?
- Use of own experience: Is the candidate using specific experiences from own group's project?
- Ability to reflect: Is the candidate able to reflect on relevant concepts for own group's project?
- Validity: Is the candidate able to spot and evaluate the conclusions from the group project, and how valid they are?
- Generalization from learning: Is the candidate able to show what could improve the validity of the conclusions from the group project?

Additional material

See the short video about the DIEP method of reflective writing that can be useful for this assignment.

<https://www.youtube.com/watch?v=SntBj0FIApw>