

Guide Sheet

1 Pre-Questionnaire

Degree: Undergraduate Graduate

Study program: _____

Academic year: _____

Passed lectures: Software quality Software engineering Software project

_____ _____ _____ _____

Level of knowledge: "I have a lot of experience with use cases."

Strongly agree Agree Disagree Strongly disagree

2 Eye Tracking

Instructions for the eye tracking:

First, adopt a comfortable sitting position in front of the monitor. Please, maintain this position throughout the entire eye tracking session and move as little as possible during the eye tracking. For a good recording of your eyes, it is important for the eye tracker that you keep your head position stable.

Task and scenario of the experiment:

You are a developer who has recently joined a project. You have to read an excerpt of a specification to implement a use case. The goal of your project is to create a software for the institute of sinology of the University of Würzburg. The institute would like to merge its administrative processes and digitalize them. The software should manage the data of students and their achievements, as well as lecturers and lectures. It should be possible to create, edit, check and print the corresponding data. It should also be possible to create certificates, diplomas, and standardized letters.

The secretary and research associates will use the software on their computers in their offices of the institute. All these computers are in a local network. The data is stored in a database on a server of the institute. Each user must log in to the program to ensure data protection.

The excerpt of the specification excerpt is displayed as a PDF document on your monitor. The excerpt consists of 2 pages. You have a keyboard in front of you. With the arrow keys (left and right) of the keyboard, you can switch between the pages of the PDF. The eye tracking system does not support other functions such as searching, scrolling and zooming.

The time limit for this task is 10 minutes. If you finish before the time limit, please state it explicitly.

Before the eye tracking and the task start, we calibrate the eye tracker together.

3 Post-Questionnaire

Answer the following questions. Select "Yes" or "No" only if you are sure. Otherwise, check "Do not know." Answer the questions in the given order.

No.	Question	Yes	No	Unknown
01	Have you looked at the requirements?			
02	Have you read the requirements?			
03	Are the requirements related to the use case?			
04	Has the use case been linked to the requirements?			
05	Have you read the requirements that were not linked?			
06	Have you read the linked requirements?			
07	Has the linking clarified which requirements are related with which use case fields?			
08	Did you use the linking in the use case to find and read the linked requirements?			