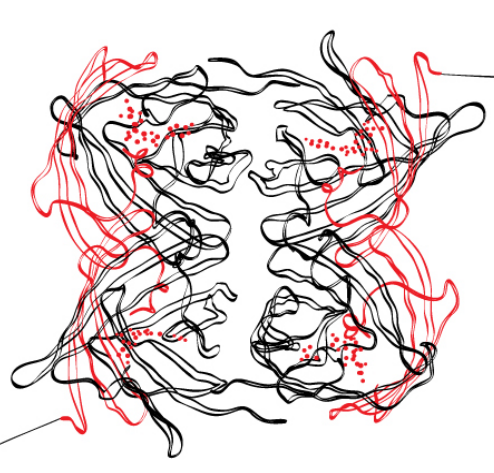
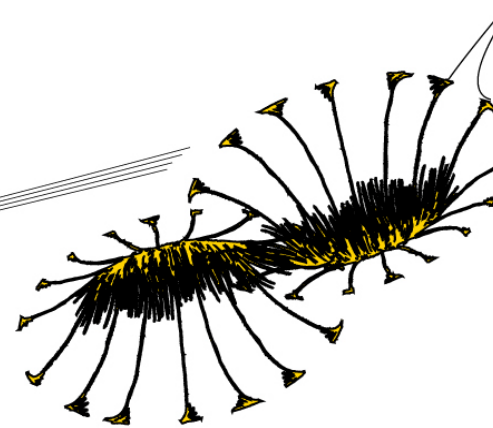


HCI DESIGN & EVALUATION

Project Proposal

Module ID: 202001032
Bachelor Technical Computer Science / Business & IT
November 2021



Goal

The goal of this assignment is to come up with a project proposal. You will brainstorm about your “Intelligent Assistant”. With your Intelligent Assistant you will try to solve a problem in one the following application domains:

1. Eating (diet, dinner, cooking, ...)
2. Skills training for ...
 - a. Sports
 - b. Language
3. Sustainability of
 - a. Energy
 - b. Waste

You will do this by looking at different perspectives:

- What is your application domain about? And what problems and challenges exist within this domain? Formulate your problem statement.
 - Who will be your target group?
 - What are the current solutions to solve the problem? What are the advantages and disadvantages of the current solutions?
 - What type of technologies can help to solve the problems or challenges in a better or smarter way and explain how? Think about how to detect behavior and how to present feedback.
1. During the first **15 minutes**, agree on the application domain as a group.
 2. During the **next hour** of the tutorial each group member will work on the above questions **individually**. Look for articles to support your findings. Use the template to fill out the matrix with your findings. After the first hour, present your findings and ideas to each other.

After the presentations in your group, try to make or find (new) combinations of ideas from each other. Combine the individual matrices into one final group matrix. This will be the starting point for the development of your concept of your intelligent assistant.

The problems in your application domain can be solved by more than one concept. By the end of this week you will need to have a top 3 of concepts for your **domain**. Per concept present **one** problem statement, **one** target group, and at least **one** current solution.

Format

Write up the following points. You have to include 10 articles in total (of which max. 5 non-academic articles such as news articles or articles from popular science magazines, completed by academic literature) but at least 3 per concept:

1. The combined matrix with specific problems/challenges, target groups, current solutions and the technologies that can help or support.
2. Your top 3 concepts from the matrix; **for each** of your concepts:
 - a. Reputable evidence (at least 1 article) that the problem to address is important (this refers to target application domain and/or general needs of target group)

- b. Brief explanation of the current solutions (including 1 articles) to this problem and why those solutions are lacking, or evidence that no previous solutions exist (this refers to current technology solutions)
- c. Explain how your concept will solve the problem in your domain, what technology will you need, why and how will it be applied.
- d. How this concept differs from current solutions and why those differences are valuable
- e. Potential impact of your concept in the application domain

Proposal peer-review

The formative feedback from the peer-reviews are given by students who do an alternative assignment for the project. If you have questions or doubts on the reviews, please contact your tutorial leader to discuss the review.

Area	Description	Comments
Problem statements, current solutions and new concepts all fit together logically	This includes writing, structure, argumentation, and flow of the story. The combined matrix is present and clear.	
Problems addressed is well referenced and selected	Problem has appropriate scope: not too general but specific enough that your system can potentially monopolise this problem space. Ideally 5 good references from academia or news – “good” means reputable sources	
Current solutions are well described and referenced	Descriptions of the current solutions are clear and do fit the problem statement. Ideally 5 good references from academia or news – “good” means reputable sources	
Concept is novel compared to existing solutions, based on the argumentation.	Given the argumentation, the solution is novel, appropriate for the problem and it doesn't seem like an idea that's already been implemented quite fully before.	
Solution contains single specific target group.	The target group is well defined and specific to the problem statement.	