Design Thinking and Electronic Prototyping

Week 6



Salu Ylirisku 13.10.2020

Project

Today (13.10.):

Project Plan

In 7 weeks (1.12):

Project Results with Prototype Demo



Project planning

1. Goal

1. What are you trying to create

2. Tasks

- 1. What functionalities/features/components you plan to create
- 2. Which activities are necessary to get to your result
- 3. Remember time is needed for exploring, integrating and testing!

3. Resources

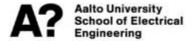
- 1. Who is available, for how many hours, and when
- 2. Who will be in Finland when

4. Schedule

1. Add key milestones (internal project goals / iteration)



Project plans – let's review



Project evaluation in the end

- 1. Design Concept
- 2. Design Exploration
- 3. Design Judgment



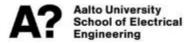
Design Concept

- 1. Name & Visualisation
- 2. Purpose & Users
- 3. Key benefits (which problems solves / value adds)



Design Exploration

- 1. User study: Observations/Findings about users
- 2. Technology study: Observations/Findings about tech
- 3. Excess Ideas: Which ideas were considered but discarded



Design Judgment

- 1. Why do you think that your idea is a good one?
 - If it solves a problem is that problem really a meaningful one to be solved?
- 2. Why did you choose to prototype the specific functions and features?
- 3. Why did do the project activities in the order that you did?
- 4. Why did you discard certain ideas?



Assistant meetings – Weekly!

- 1. You are required to meet with your team's assistant weekly
 - Recommendation is ~30 minutes
 - It is to present your project status, open questions, and to adjust your plans
 - Negotiate the schedules with your team's assistant



This and the next week's tasks

- Diary Deadline on Monday 26.10. at 10 AM
- 2. Reading: Chapter 3 + Start of Chapter 4 until p. 140
 - Knowledge in the Head and in the World
 - The Tradeoff Between Knowledge in the World and in the Head
 - Memory in Multiple Heads, Multiple Devices, Natural Mapping
 - Culture and Design: Natural Mappings Can Vary with Culture
 - Knowing What to Do
 - Constraints, Discoverability, and Feedback, Four Kinds of Constraints: Physical, Cultural, Semantic, and Logical, Applying Affordances, Signifiers, and Constraints to Everyday Objects

3. Exercises

07. I²C bus

4. Project

- Contact your assistant weekly meeting REQUIRED
- Start building your prototype!

