# Tampere summer design project

2023 July-August









### **Table of Contents**

Part 1: Who are we and what was our summer project?

Part 2: Secondary research and collaboration

Part 3: Extensive user research

Part 4: Concept designs

Part 5: Comments and discussion

Estimated duration of the presentation is: 45 min.



## The Team

Trust-M employees (in front):

Amir Pakpour ("supervisor")

**Rūta Šerpytytė** ("organizer")

Summer Designers (in back):

Tim Sowa ("philosopher")

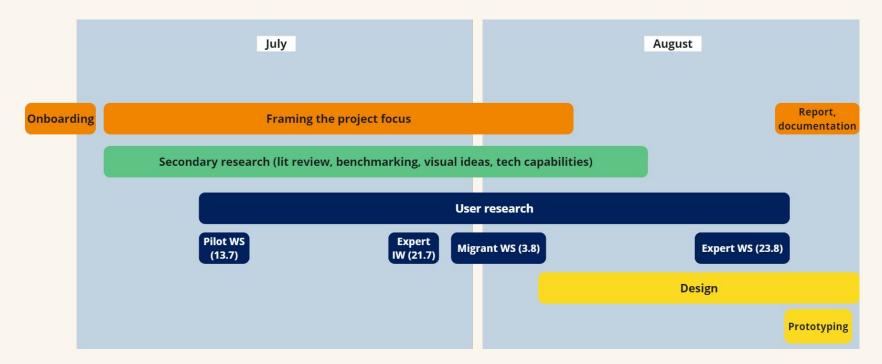
Sofia Kasari ("visualizer")

Ville Minkkinen ("jack of all trades")

Anfang Liu ("tech wizard")



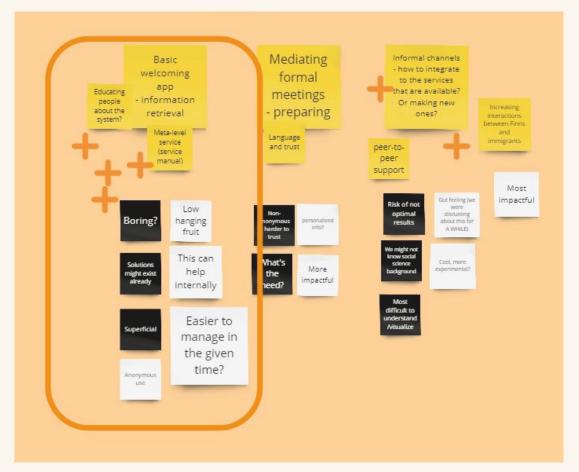
# Timeline/process





# Framing

- Create information retrieval tool for both immigrants and for internal use, leveraging conversational Al with good ecosystem map visualization
- Create prototypes to test with new students
- In addition we had personal research projects / focus points





# Secondary research

Part 2/5

# Secondary research

1

Technical capabilities of prototyping tools

2

GPT-based recruitment chatbot research

3

Ecosystem
mapping
(exploratory,
information
visualization)

4

Systematic literature review

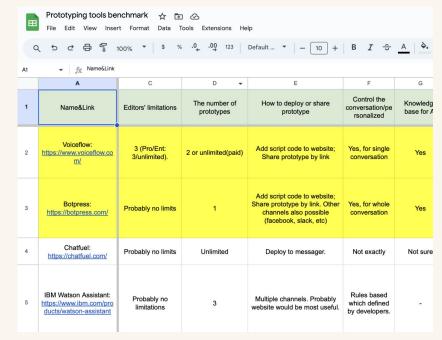
5

Knowledge sharing with Aalto University researchers

# 1. Technological capabilities

- Exploring possibilities of different tools that could be used to build conversational Al prototype.
- Making comparison table out of 12 different prototyping tools including relevant information how usable it would be in this project.

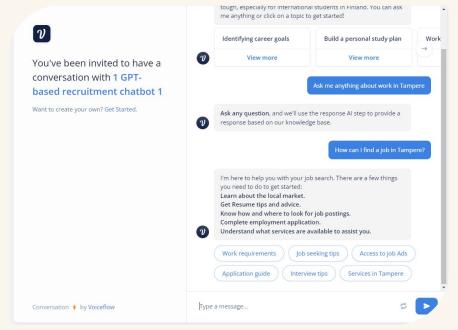
#### Link to Prototyping tools benchmark





# 2. GPT-based recruitment chatbot research\*

- Pre-study websites related to recruitment in Tampere for the knowledge base.
- Design the structure of conversation Al.
- Prototyping GPT-based chatbot by Voiceflow.

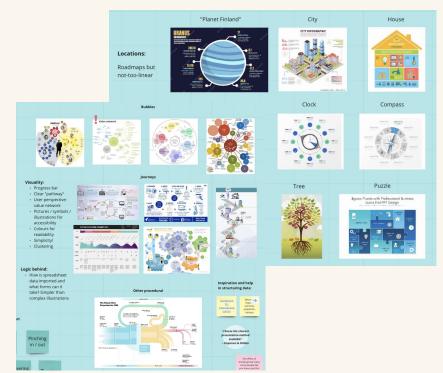




\*As a part of Anfang's thesis work

# 3. Ecosystem mapping

- Exploring how information can be exported from Miro to Excel with label and relationship data.
- Looking into possible ways of visualising complex systems and creating a concept that is comprehensible (metaphor).





# 4. Systematic literature review

- Collected high quality academic papers in Zotero and annotated them in Notion.
- Found an existing literature review with topic "A Decade of International Migration Research in HCI: Overview, Challenges, Ethics, Impact, and Future Directions".

#### Otsake

- Information behavior and ICT use of Latina immigrants to
- **BUSINESS AND TECHNOLOGY USER MANUAL**
- Public libraries: A meeting place for immigrant women?
- Migration and community in an age of digital connectivity:
- Memory through Design: Supporting Cultural Identity for In
- Be Our Guest: Intercultural Heritage Exchange through Aug
- Personal experiences of digital public services access and
- The "Had Mores": Exploring korean immigrants' informatic
- Towards better information services: A framework for imm
- Involving British-Chinese Immigrants in Participatory Actio



# 5. Knowledge sharing with **Aalto University researchers**

- Had a research visit to align interests.
- Participated in a pilot experiment run by Lucy.
- Co-facilitated an experiment in Hello Espoo with Lucy.
- Participated in NEWSROOM 2053 speculative design workshop run by Bhuvana and helped to plan a follow-up workshop.





# **Establishing connections**

- Connection with International House
   Tampere and City of Tampere IT services
- Collaboration with HIWE research project

HIWE Tampere Ecosystem map:

https://www.hiwe. fi/tampere-ecosy stem/





# User research

Part 3/5

## User research

1

Pilot workshop
with summer
exchange
students at
Aalto University

2

Workshop/
interview with
International
House Tampere
main contact

3

Workshop with immigrants

4

Workshop with experts from International House Tampere

# 1. Pilot workshop at Aalto



**Purpose:** test how emotional mapping exercises work in practise.

**Activities:** list services and tell experiences on cards, decide labels for X–Y axes, evaluate services by placing cards on axes.

**Key takeaways:** More time is required for sharing emotional experiences, writing can be laborious, measuring is not precise, emotional aspect can be combined with structure-oriented activities.

# **Expert interview**

- Interviewed IT project manager from the City of Tampere.
- Main goal was to get a starting point for ecosystem map and a deeper understanding of migrant services in Tampere.
- Started to organize workshop with immigrants through International House Tampere.

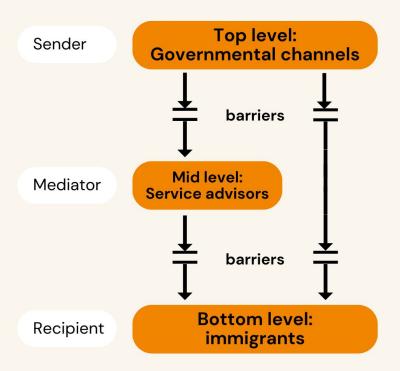




# Reframing

- Main focus remained on information sharing and understanding the service ecosystem, but with more holistic approach.
- We aimed to identify barriers for information flow from both sides.
- Utilizing the opportunity to conduct user research with both immigrants and service providers.

# Information flow from top-down in the system





# Workshop with immigrants

International House Tampere, August 8th, 2023

10 immigrant participants recruited through IHT



# Workshop structure

- 1. Introduction
- Listing services they have used, checking an InfoFinland.fi cheat sheet and making affinity maps
- Picking 3 most memorable services and reflecting on the emotional experience on paper and in group discussions
- 4. Taking a look at others' maps and reflecting on highlights, similarities and differences





# Main takeaways

- Exposure to services is strongly related to the personal timelines and goals of an individual immigrant
- Most participants engaged with services out of necessity but not for aspirational actions or personal motivation
- Nearly all participants were unaware of existing service databases
- Ideal solutions would focus on the transparency of timelines and making the "connections" between services more explicit





# Main findings

### Unexpected categories for the ecosystem maps

- Getting set up in Finland
- Mobile applications
- Electricity, cellphones, insurance etc.
- Community and groups
- Shops and restaurants
- Hobbies and leisure

### 9 Different approaches in categorising services



### Crucial pain points in the integration journey





### Flash cards - examples

When we listed different services during activities in our previous workshop, the participants were not familiar with many of them.



What kind of information portals do you recommend for immigrants, if any?

How do you try to teach immigrants to look the information themselves in future?

How do you look up the information yourself?

PDF version of the cards in Google drive:

 $\frac{https://drive.google.com/drive/u/1/folders/1bw7bprMo}{MmW2JR1TJfkWzAsZjkjfTQf8}$ 

Immigrants described getting inadequate and/or contradicting information on...

a) what is the criteria for getting a loan (mortgage) and b) which documents are required for bank appointments

...which resulted in long waiting periods, double work and frustration.



How does the banking system relate to your work with immigrants?

Can you think of any other typical instances complicating a step in the integration process that is specifically to miscommunication?

"If you don't have a Finnish person to kind of support you through the [banking] system, it's impossible."

"You get more information from people than the system"



Are there any activities where you try to help immigrants to find communities of either Finns or other immigrants?

What do you think about this kind of tacit knowledge and its implications to the success of integration?

#### Strategies immigrants use to approach Finnish services

Different services that are Categories consist of steps Categories are made based needed in the same event are in a specific micro process. Thematic Causal Procedural on traditional themes (e.g. grouped in one category (e.g. (e.g. Setting up a new living Finance, Education, Culture) scooter accident and health environment) system) Categories are made Categories are made based on based on a time or a Categories are made by the function perceived by user Provider grouping services provided phase in integration Temporal **Functional** (e.g. Information sharing, Help process (e.g. Setting up in based by the same party (e.g. with language) Finland) City services) Categories are made Categories are made based Categories are made by **Target** based on the platform on the location they are grouping services targeted By format By location group they are accessed through for the same audience (e.g. provided in (e.g. (e.g. Mobile apps, based International House) Immigrant services, Kids) Websites)

# Workshop with experts

International House Tampere, August 23rd, 2023

7 participants from Lobby services, House team, Mainio and TE-services.



# Workshop with experts – Structure

- Round of introductions.
- 2. Discussion facilitated by flipcards that contain insights from immigrant workshop.
- 3. Identifying problems in a three-level structure: immigrant, expert and top level. Asking "how might we... [solve them]?"
- 4. Innovating new solutions that would simultaneously tackle as many mentioned pain points as possible.



# Main takeaways: first impressions



#### "Time will fix it"

In general, experts think that a diverse set of services already exist (Oma coach, Study&Stay, job clubs, "Work in Finland") – however, they are new and take time to be effective. IHT collects feedback actively on their operations and events and makes changes accordingly.

#### "This is just how it is"

Experts consider that migrants in Finland face difficulties due to unrealistic expectations and unpreparedness.

#### "Sorry, I didn't quite catch that?"

According to experts, immigrants struggle to formulate specific problems when they ask for help.

#### "Why don't you just do it?"

There was discussion about the possibility that the lack of confidence and proactiveness from migrants are a barrier to integration.



# Main takeaways: the reality



#### "Even we don't understand the system"

Information is hard to find, scattered, and the use of acronyms makes things even more confusing. Even one expert was struggling to find the right information online regarding setting up bank accounts. There is a lack of one-stop-shop in Tampere.

#### "My hands are tied"

Service advisors have limited authority to give genuine advice because of legal responsibility that comes with their position. They try to go around this problem: "I've heard others found this bank especially useful."

#### "Here, click this"

Even though service advisors utilise internal checklists, they struggle with providing information and sometimes just share web links with immigrants. However, not everyone has high digital literacy, so a lot of information is inaccessible.

#### "A bunch of legal nonsense"

Law and service systems change rapidly – experts can't keep up. Sometimes information is presented in a very "formal" way and is not intuitive, and it's difficult to digest, even for Finnish speakers.



## User research conclusions

- Immigrants have different approaches to accessing and using services, as well as categorizing them, which can differ from the current system design.
- 2. The service ecosystem is so **dynamic and altered by changing laws** that even experts have difficulties to keep track of the latest changes.
- 3. There is a **lack of transparency** of the integration system as a whole as well as individual steps one has to follow.
- 4. It's unclear what is the **scope of one's own agency** as an individual, both on immigrant and service advisor's ends.
- 5. In order to proceed with the integration process, **some steps require prioritisation** and more effort than others.

# Concept design

Part 4/5

# Concept design

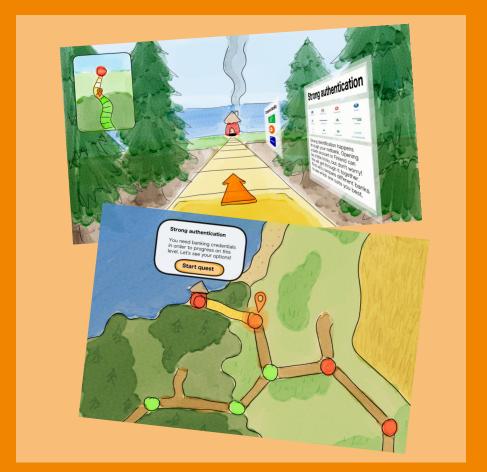
- The concepts were achieved through internal discussions within the group and outside, and derive directly from co-creation workshop findings.
- We had internal ideation session after the second workshop findings were analyzed.
- Two main concepts were designed as outcomes of the summer project.





# Finland – A Walk in the Park

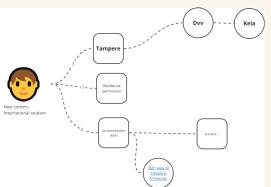
Breaking down the integration process into bite-sized pieces (micro journeys)

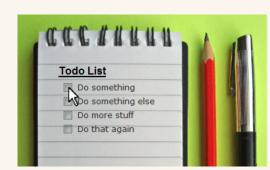


## Concept

A relaxing virtual world inspired by Finnish nature that helps newcomers to navigate the integration process and break it into small, more easily achievable pieces.

- User decides the goal they want to attain, which AI can help to clarify
- Pre-set or custom micro journeys
- Game-like experience to manage tedious to-do lists













#### Finland – a walk in a park

Breaking down your integration process into bite-sized pieces

Read about our data collection and safety here.

Select one of our trails

Continue your previous trail

Generate a custom trail



#### **Onboarding**

Please provide as much info as you're comfortable with! We will clarify the details in the next step.

#### What is your goal?

Getting strong identification so I could access Finnish public services.

#### Please provide some context on your situation:

I just arrived to Finland last week because my spouse got a job, I want to apply for some Kela benefits but I don't have a strong ID because I don't have a bank account yet.



#### **Clarifying**

Thanks, let's double-check some things before our Al generates your journey map:

You need a strong ID for Kela benefits as a newcomer to Finland.



You have a residence permit on the basis of family ties.



You want your strong ID based on bank account.



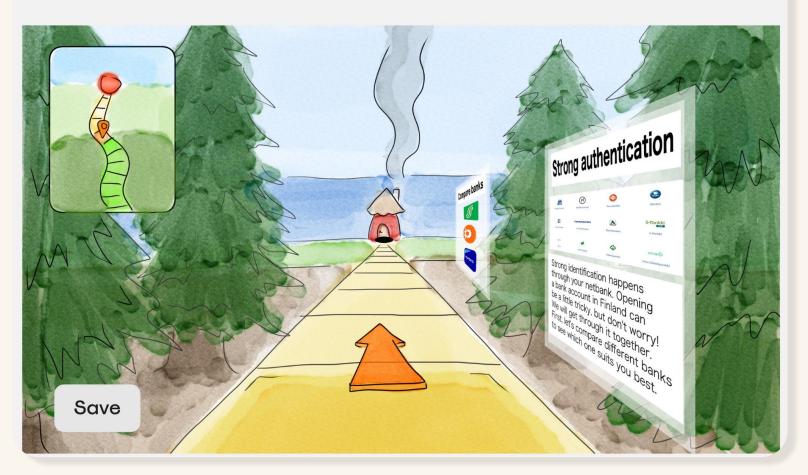
You can have your strong ID in three different ways: via bank account, mobile ID and citizen ID (DVV)

Generate a custom journey

Frame 4/5 Strong authentification You need banking credentials in order to progress on this level. Let's see your options! Start quest

 $\bigcirc\bigcirc\bigcirc$ 

#### Frame 5/5



### **Problem**

"The first two months in Finland, you're not even a person yet"

Inadequate and / or conflicting information leads to letdowns

Successful integration is achieved through micro processes (e.g. setting up a bank account), some of which are difficult to navigate

## Solution



Structuring the integration process and prioritising steps



Building trust by providing being transparent on the requirements and duration of bureaucratic processes



Offering visibility to the integration process and the micro journeys in it, providing step-by-step assistance for tasks process and prioritising steps



# Finland – Integration gallery

Displaying different parts of integration process in a gallery setting



# Concept

An hybrid exhibition space in which users can gather, chat with each other and find information on different aspects of integration in their dedicated rooms.

- Explore different rooms based on immigrants' approaches to services.
- Co-design rooms with stakeholders.
- VR-based gallery, occasionally physical gallery.
- Chatting with people who visit the gallery at the same time.







#### The whole gallery view

















#### The job seeking in Tampere room



#### Option to chat with other participants



### **Problem**

Solution

Integration can't be a one size fits all service



Showcasing and educating on different integration paths

Confusing system or services, information is scattered



Different services are organized in respective rooms

Most of information is based on text



Receiving information in an immersive way

There are claims that immigrants are too passive in information seeking



Providing a place for networking, gathering and peer-to-peer support



## Future development

A Walk in the Park

Possibilities for AI
customisation of the levels
and micro journeys through
different levels of personal
data input

**Accessibility** of information and either a low-tech alternative or an incorporated feature

Incorporation of the concept in a **virtual** reality setting

Taking **trustworthiness** into account when designing

Plain language used in the both concepts

Taking into account different **emotional aspects** in design

Opportunity to utilize these concepts for service manuals

Integration gallery

Developing an independent virtual reality environment to ensure data security.

Possibility to collaborate with informal channels (forums, migrant communities)

# Trust-M summer design team:

**Summer Designers:** 

Anfang Liu Timothy Sowa Sofia Kasari Ville Minkkinen

**With the help of:** Amir Pakpour Rūta Šerpytytė

Thank you!

