HCI – Assignment 2

Trip-Tip!

An online database of useful information for travellers.

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Lab: P9

Introduction

Personal Interests

All enjoy travelling. All explore Portugal and nearby regions while on exchange.

Relations

We do not have that kind of course in our home university. Knowledge of user centred design is very useful whenever designing interfaces.

Introduction

Trip-Tip! - Goals

01
Create

A database of useful information for travelers.

02
Improve

Searching for travel destinations online.

03
Personalize

Travelling suggestions based on user preferences.

04
Learn

About human centred design.

05
Experience

Usability evaluations and UI development.

Personas

HUBERCIK
21 years old | Uber Driver

GOALS
- Obtain travel suggestions based on his preferences
- Check if travel locations will suit his needs

ENVIRONMENT
- Comfortable using his mobile phone to browse the web while in travel
- Is an experienced traveller

MONICZKA
30 years old | Remote IT Worker

GOALS
- Obtain information about average pricing in various travel destinations
- Check if the travel destinations are regarded as safe

ENVIRONMENT
- Active internet user
- Comfortable with the usage of mobile apps
- Mostly browsing her phone at home

Scenarios

- Each persona had at least 3 scenarios created for them.
- Each scenario described completely different activities in different situations.
- Extracted tasks from the scenarios.

Example scenario

Hubert is flying from Poland to Portugal, he has one hour before his plane departs to find places worth seeing which match his taste using his mobile phone, after logging in to the system he have to fill in the form with some basic information about his taste, age, information about last trips, at the beginning the system is showing him some recommendations, if they are not enough he may adjust them using some filters and sorting by the average stay prices, after that he have displayed the best events to check in Porto at this time in which he have description of this events and reviews he can read.

Tasks

1. Create user profile.
2. Fill in the form about the user preferences.
3. Browse through recommendations.
4. Select a destination.
5. Browse the reviews, current events and general information about the destination.
6. Log in.
7. Browse through the recommendations.
8. Change user preferences.
9. Sort the destinations by average stay price.
10. Select an offer.
11. Browse through similar offers.

and more…

Tasks from scenario

Context: Little time, high stress and possibly bad internet connection.

1. Create user profile.
2. Fill in the form about the user preferences.
3. Browse through recommendations.
4. Select a destination.
5. Browse the reviews, current events and general information about the destination.

Requirements

Functional

- Profile registering
- **Destination browsing**
- Search engine
- **Offer descriptions**
- User preference form
- Profile logging
- Modifying preferences
- **Offer sorting**
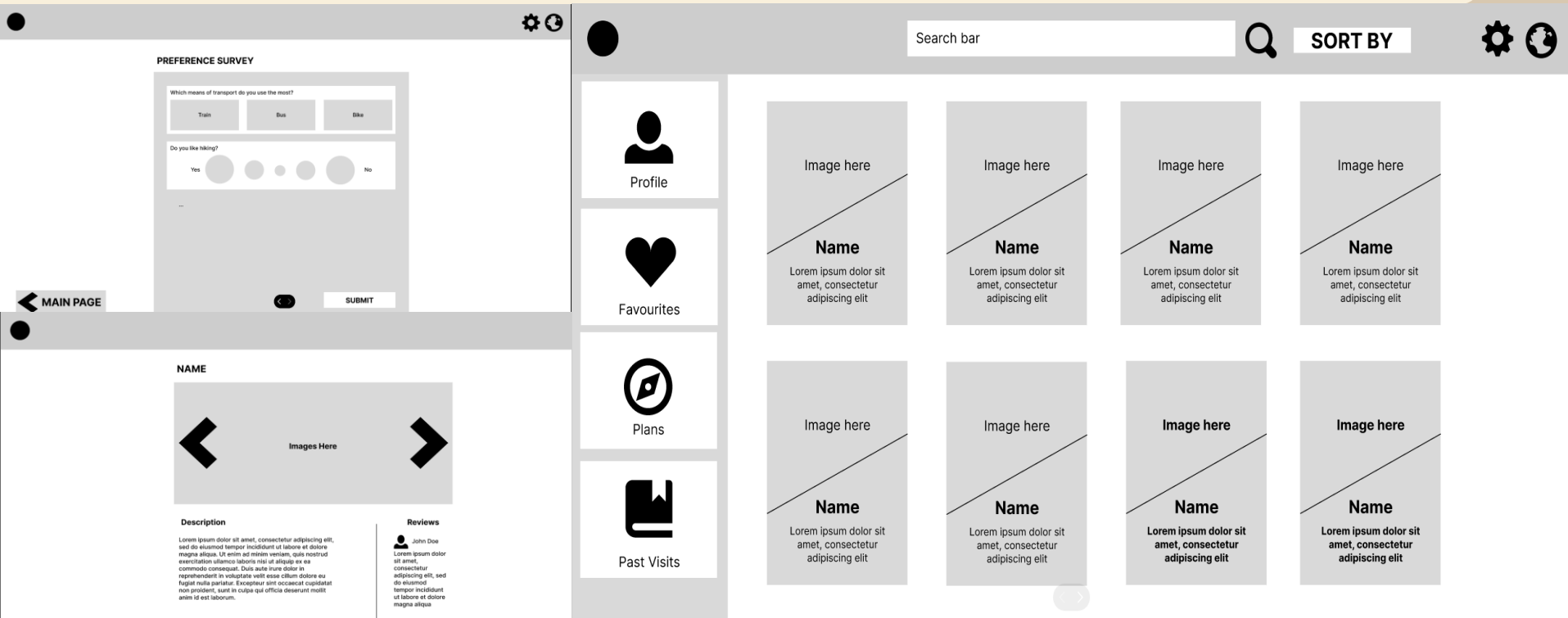- Browsing similar offers

Non-functional

- **Usability** - The website should be easy to use, with a clear and intuitive user interface that enables users to find and interact with content quickly and efficiently.
- **Reliability** - The website should be always stable and function correctly, with a low rate of errors or bugs.
- **Scalability** - The website should be easily scalable and extendable.

View

PREFERENCE SURVEY

Which means of transport do you use the most?

| Train | Bus | Bike |

Do you like hiking?

Yes ⚪ ⚪ • ⚪ ⚪ No

...

◀ MAIN PAGE

SUBMIT

NAME

◀ Images Here ▶

Description

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Reviews

👤 John Doe
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Profile

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Favourites

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Plans

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Past Visits

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LANGUAGE & CURRENCY

LANGUAGES

language # 1 language # 2

CURRENCY

currency #1 currency #2

◀ MAIN MENU

First evaluation

Methodology:

- Each person had to perform 6 tasks
- Initial tasks were easy and the next were more difficult
- after each completed task, we make grade the performance of the task.
- we asked for opinions, is given task was difficult.
- When finished all tasks, testers gave an review of the application prototype
- at the end we asked what they would like to change in to develop the final application

Tasks:

1. Choose a Lagos for your destination
2. Revise your favourite places to visit.
3. Change language and currency.
4. fill a form with your preferences and back to main menu
5. Change your privacy settings.
6. Check the reviews for the selected destination.

First evaluation

Evaluators advices

- Put profile icon in the top right
- Maybe u should have settings and user information on one place, it is little bit confusing to separate them sometimes
- Add more features

Reviews

- 4.4 - average grade
- Intuitive
- Not complicated

- Problem with change leanguage
- Few problems find the form
- Few problems with change privacy settings

Functional prototype

- Springboot
- Bootstrap
- IntelliJ
- HTML,CSS,JS
- Registration and login
- Favourites
- Destinations
- Prototype of preferences
- Prototype of searching
- Prototype of profile
- Prototype of dark mode
- Prototype of settings (languages, currency)

User Evaluation 2 - methodology

- Each user was evaluated individually
- We used 9 tasks for each user with different levels from easy to hard
- For every task user was getting different score from 1 to 5
- Based on post-task questionnaire we examinated application and got the result in 8 different categories
- After the evaluation user was also giving us the opinion about the application
- Based on their opinion and results we made changes in our system

Tasks

- Make an account and login successfully to the website and logout
- Learn more about Warsaw, what is the area of this city?
- Change sorting so the cheapest places will be first on the list, tell what is the cheapest place
- Find out how you can change language of the website, then change it to Portuguese.
- Find the preferences and change them

Reviews

- Very intuitive
- Visual appealing
- Optimized
- Improve preferences
- Problems with finding how to change language
- Unintuitive sorting
- More informations about cities.

Search

Search

Sort by:

Browse

Card image cap

Preferences

Preferences of account.

Learn more

Ziemia

Ziemia.

Learn more

Warsaw

Warsaw is big.

Learn more

Turcja

Turcja have a lot of ziemia.

Learn more

Card image cap

Turkowo

Ziemia.

Learn more

Card image cap

Lodz

Lodz Ziemia.

Learn more

Card image cap

Poznan

Miasto doznan.

Learn more

Search

Search Sort by: ▾

🏠 Browse

👤 Profile

💙 Favourites

🕐 History

⚙️ Settings

↪ Sign out

Settings

Languages Selection

English   Portuguese   Polish

WIP - this buttons will hopefully work in the future.

Preferences

HIKING

How much do you like hiking?

Not so much ●—— Very much

Add preference

BEACHES

How much do you like beaches?

Not so much ——●—— Very much

Add preference

MUSEUMS

How much do you like museums?
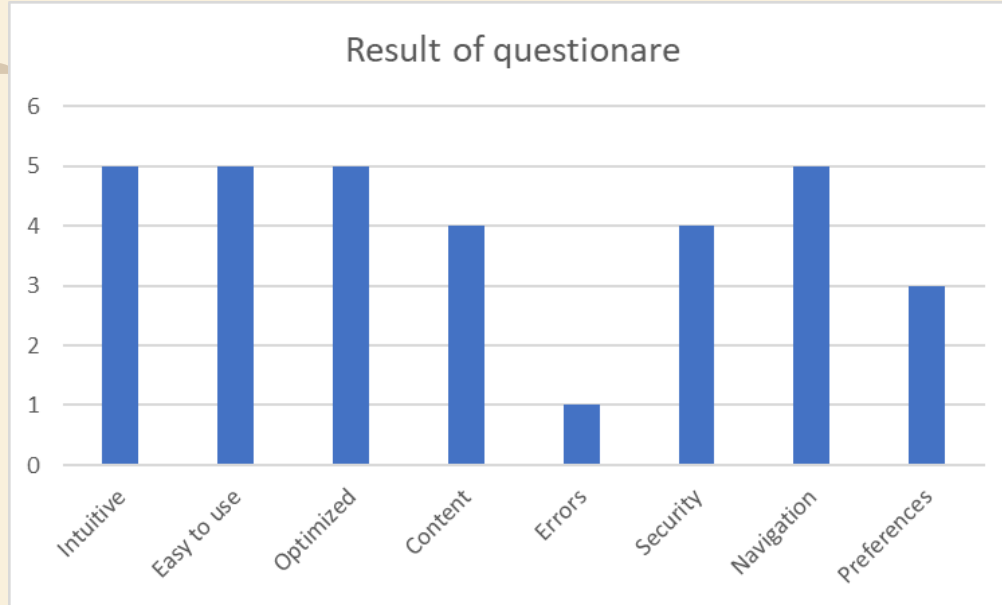
Not so much ——●— Very much

Add preference

MOUNTAINS

How much do you like mountains?

Not so much ●—— Very much

Add preference

Questionnaire feedback

Result of questionare

Results from 8 participants

- **Intuitive – 5**
- **Easy to use – 5**
- **Optimized – 5**
- **Content – 4**
- **Errors – 1**
- **Security – 4**
- **Navigation - 5**
- **Preferences 3**

Time for a Demo!

Future of the project

React
Re-create the whole frontend in React.

User-friendly
Conduct more evaluations and make website more user-friendly.

More content
We would like to add more destinations, maybe even other countries, to open for people from other countries

Currency & language
In the future we would like to add change currency and language to attract users from other countries.

Effort of each group member

Maciek
Code whole backend
Prototype in figma
Frontend
Prepare presentation

Jakub
Prototype on the paper and in paint
Code frontend
Prepare presentation

Lukasz
Frontend
Presentation
Evaluation of the system

Obrigado!

Bibliography

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