Design and Implementation of a Mobile Application for the Collaborative Structuring of Knowledge-Intensive Processes

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Overview

1. **Motivation**
   - Overview of the existing application
   - Literature and applications examples

2. **Research questions**

3. **Current state of the thesis**
   - Mobile websites vs. desktop websites
   - Mockups

4. **Next steps**
   - User evaluation
   - Roadmap
Objective

Development of a mobile version of Darwin to fit the mobile use case

Goals

- Meeting increased demand and usage of mobile devices
- Better flexibility
- Increasing accessibility
- Improving productivity
- Enhancing communication & collaboration
Literature and mobile applications examples

- Jakob Nielsen and Raluca Budiu: Mobile Design and Development
- Mobile System Design by Dr. Ing. Dennis Kraemer
- Wunderlist
- Any.DO
- producteev by jive
Research questions

1. What are relevant use cases for the mobile interface compared to the desktop version?

2. How should a mobile interface be designed to support knowledge-intensive processes?

3. How well can the mobile interface be used to accomplish a knowledge-intensive task in practice?
Mobile websites have a different user experience

**Mobile Website** vs. **Desktop Website**

- Screen size
- Interaction techniques
- Navigation
- Context of use
- Search
- Form design

Build a Mobile Optimized Website

- Reduce the feature set in mobile to lower complexity and to fit on the smaller screen
- Cut content which is not core to the mobile use case
- Defer secondary content to secondary pages
- Enlarge interface elements to ease mobile interaction ("fat finger problem")
- Consider ergonomics, gestures, transitions, and mobile-specific interaction patterns for interaction design
Current state of the thesis

1. Feed

- Deselect filter
- Write new status/discussion post
- Extend entry
Current state of the thesis

2. Navigation
Current state of the thesis

3. Profile

View of closed tasks

Open Tasks

- Review To-Do-List apps
  - Sprint 1
  - MAR 18

- Second draft of mockups
  - Sprint 1
  - MAR 9
  - Ended 10 days ago

Closed Tasks

- Initial meeting
  - Finish: MAR 12

- First draft of mockups
  - Sprint 1
  - End: MAR 12

Show expertise of user

Expertise:

- Angular JS: 10
- Backend: 9
- CSS: 5
- HTML: 3
- Scala: 2

Click on profile picture to show percentile

Natascha Abrek - 20.04.2015
Current state of the thesis
4. Wiki content

Design and Implementation of a Mobile Application for the Collaborative Structuring of Knowledge-Intensive Processes.

Abstract:
The expanding role of knowledge in today’s information-based economy has led businesses to increase their focus on process-related work. Modelling processes of knowledge artifacts within so-called knowledge-intensive processes (KIPs) became an essential task for organizations. KIPs comprise activities such as building, sharing, and reuse of knowledge and the collaboration of workers. However, KIPs take hold of an unpredictable and dynamic nature as well as high variability and changeability. These factors...
Evaluation of the mobile website

Selecting participants

Analysis of results

Thinking-aloud methodology
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20.04.2015
Any Questions?