

Software Project Management II

Master Software Technology

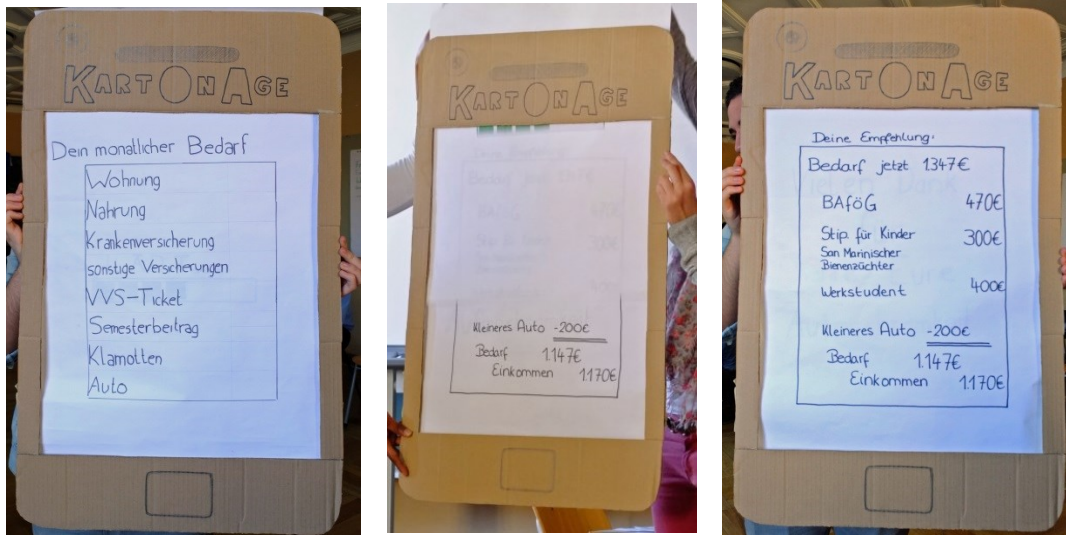
Exercise 3: Scope Management: Create a WBS

Please note that the solutions for exercise 3 are to be submitted as part of the pre-exam requirement. Please

- work in teams of 3-5 students and
 - upload your solutions (approx. 1 page explanation and ProjectLibre file) to moodle
- Please name your files such that we are able to identify your respective group and its members!

1 WBS for Students' Tablet (solutions to be submitted)

A group of first semester students came up with a nice idea for a 30 inch financial tablet dedicated to manage students' finances. A first mock-up was presented, showing an example for the monthly costs (left) and how they could be financed (right).



Although neither you nor the students are exactly sure that this will eventually be the best size, you and your team want to elaborate on this idea along the subsequent lines:

The device should comprise at least the following functionalities:

- a) Personal Information Management (PIM), including
 - i. calendar,
 - ii. addresses,
 - iii. task management (to-do lists) and
 - iv. notes;
- b) Communication, including
 - i. phone,
 - ii. email,
 - iii. instant messenger;
- c) navigation integrating pedestrian, bicycle, public transport and cars,
- d) dedicated students' apps supporting
 - i. financial management (as sketched in the mock-up),

- ii. students' time table synchronized with the university schedule available on a precise day-to-day base in systems like "LSF",
- iii. "homework" management and
- iv. direct access to the e-learning system Moodle.

For all of these dedicated students' apps, it is open whether they are already available on the market or whether they have to be developed in this project. In either case, integration with PIM is mandatory.

- e) Cloud-like access to your private data (e.g. your drive P:)

Beyond functionalities, the following items have to be considered:

- f) One or more platforms¹ (Android, Blackberry, iOS, Windows Phone) have to be chosen. Criteria for this selection have to be developed and agreed upon among all of the stakeholders.
- g) The device itself (i.e., the hardware) has to be specified.
- h) At least two different versions w.r.t. to connectivity come to mind, either with WLAN only or with WLAN and GSM. Based upon the latter, telecoms might want to offer bundles, including attractive pricing for students.

Your duty is to develop the initial work break down structure (WBS) for this project. Make sure to capture *all of the relevant parts* of the project including those outlined above! First, use pen and pencil to develop the WBS, afterwards use ProjectLibre in the lab!

¹ In case you are looking for arguments for one or the other, you might want to look at <http://venturebeat.com/2013/04/01/android-up-13-ios-down-7-blackberry-down-81-and-windows-phone-up-a-massive-52/> for the changes in market share in the US.