Graz University of Technology

Institute for Technical Informatics

Smart Service Development UE, SS2022
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Group Assignment 2: Service Ideation (3pt)
Deadline: 28.04, 2022; 23:59 CET

Introduction The purpose of this assignment is to come up with a new project idea. For this purpose, you are asked to create one service idea, where you focus on modularization and don't think too much about hardware/software constraints potentially re-using the tools we tried out during the lecture on Innovation and Innovation Processes.

Motivation You are a bit bummed. Your previous start-up idea CourseEveywhere (see assignment 1) didn't become the success you anticipated, because many universities already offer such services and thus your service isn't really taking off. As you are eager to make it in the world of services, you start thinking about developing a new service idea! (note: Your service idea **must comprise/ make use of at least three stand-alone services**).

(1) **Service idea (0.9pt)** Write an abstract that contains the idea of your service and a motivation (i.e., which problem does your idea solve) (1 page).

(2) **Research (0.9pt)** As you found out during your previous endeavor courseeveywhere, research is inevitable in order for the service to be successful on the long run. Do a bit of research. Are services like the one you are thinking about already existing or did you find a potential market gap? Given that your service will depend on other services, are there already established services you can use or has everything to be built from scratch? Write a short report (1 page).

(3) **Starting to specify (1.2pt)** Now that you have a clear idea on your service as well as services which could be used in its context it's time to start thinking in a little bit more detail: What Primary Data Sources does your service require (e.g., hardware sensors or software data sources), are there already data sources you could utilize for your service out there, if so which (see Exercise 2)? List a brief description of all Data Transformers that consume data from a Primary Data Source or another Data Transformer and transform it into input for another Data Transformer or a Data Sink. List a brief description of all Data Sinks that consume data from a primary Data Source or a Data Transformer. Write a short report outlining a potential information flow in your system to achieve your envisioned service (1-2 page(s)).

(4) **Hand-in Instructions** By the deadline, hand in via TeachCenter/Email: a report that states your names and student IDs, pitfalls you encountered while working on the assignment, and your responses to the assignment itself. Please use UTF-8 encoding for your documents and avoid special characters.