

Title: **Evaluation of Open-Source Business Process Management Solutions**

Description: Today's enterprises use service-oriented architecture (SOA) and business-process management (BPM) to increase their flexibility in meeting business goals. There exist numerous BPM products, that include the study, design, change and monitoring of business processes.

The goal of this project is to find an open-source BPM product suitable to teach all technology concepts around business processes, from process design to implementation.

Project consists of research and technical parts split in three milestones:

1. Get familiar with BPM and the different domains where business processes are mostly used. Learn and evaluate existing open-source BPM products [research part].
2. Choose three BPM products. Develop a web service compatible to all of them [research and technical part].
3. Using the web service created, develop working prototypes in the three chosen open-source BPM products [technical part].

Initial reading: Weske, Mathias. *Business process management: concepts, languages, architectures*. Springer Science & Business Media, 2012.*

Prerequisites:

- Motivation to conduct a research based project that involves development, configuration and a lot of reading.
- Excellent web services knowledge, including SOAP and REST

Benefits for the student:

- Learn technologies and concepts used in the industry.
- Practice BPM and SOA.

Domain: Business process management (BPM), service-oriented architecture (SOA)

Project type: Master or semester project

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* The complete book can be downloaded from within EPFL's network:
<http://link.springer.com/book/10.1007/978-3-642-28616-2/page/1>