lasaris
Lab of Software Architectures and Information Systems FI MU

Position:
KYPO Cyber Range Developer

KYPO Cyber Range aims at providing users with isolated virtualized computer networks build on demand. In these networks, security experts can safely perform their tasks, i.e. organize cyber security trainings, experiment with defence strategies, perform forensic analysis of unknown malware, etc.

KYPO consists of complex distributed architecture combining many cooperating technologies. Responsibility of our team is the development of a web-based application mediating access of end users to the lower-level KYPO infrastructure by providing them with interactive network visualizations and special analytical and management interactions. The application is based on Liferay portal technology.

The foreseen tasks of the position are the following:

- To get deeper insight into Liferay portlets development and their configuration options.
- To get insight into current KYPO identity and access management and its system of user roles.
- To design a generic approach to configurable Liferay portlets so that they cope with variable preferences defined for KYPO user roles.
- To prepare a template for configurable portlets and to adapt selected existing portlet(s).
- To define generic testing rules enabling to check functionality of Liferay portlets.
- To help with the development of Liferay portlets, bug fixes, etc.

Characteristics of the candidate:

- Programming skills in Enterprise Java (i.e. Java Beans, SpringMVC, Hibernate, etc.).
- Experience with Liferay technology is advantage.
- At least basic knowledge about Javascript.
- Understanding of software models (ERD, UML class diagram, UML component diagram, UML deployment diagram).
- Good problem-solving skills.
- Demand for long-term collaboration is preferred.

We offer:

- Work in a team of young people (Bc/Mgr/PhD students).
- Improving your knowledge of web portal technology, which is desired in commercial practice.
- Engagement in interesting cyber security research.
- Possible financial rewards for good performance and results.

Type of collaboration:

- Internal LaSArIS member, paid work after the testing period.
- Collaboration with other teams of KYPO project (mainly cyber security teams).
- Opportunity for Bc/Mgr thesis connected to the topic.

Timespan:

- Hiring process: Sep-Dec 2016
- Testing period: Roughly 3 months
- Running time: At least 1 year after the testing period.

Contact:

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