T-110.5140 Network Application Frameworks

5/2012 Examination

The use of a calculator is ok. All other material is forbidden.

Remember to include the following information in your paper: the course name, date, student ID, name, and signature.

Choose 3 of the 4 topics below and write essays on them. Each topic has additional questions as hints on what kind of material you should include. Discuss other relevant issues as well. Remember to consider what is important and what is not when writing your essay.

In some questions you are required to state your own views. Pay attention that you also justify your opinions.

1. HTML5 for mobile applications

   Discuss the feasibility of using HTML5 for mobile application development. How does it compare to native applications? What are the key issues to consider? What are the pros, cons, and risks of selecting HTML5?

2. EXI – Efficient XML Interchange

   Explain what is EXI? In which cases would it make sense to use it? How does it compare to XML and JSON and possibly to other alternatives?

3. Web application architectures

   Explain the key differences between alternative web application architectures, in particular between server-side templating, server side frameworks, and rich client + REST approaches. How do the application characterics influence the architecture selection? What other issues to consider when deciding between these architectural choices?

4. WSDL – Web Service Description Language

   Describe what is WSDL. Why is it used and what is its role in network application development? What kind of other alternatives are there to WSLD? How do you see the future of WSDL?