

T-110.5140 Network Application Frameworks

8/2012 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 networked applications

Describe what is HTML5 and how is it different from the old web technologies. What kind of new opportunities does it bring for the development of network connected applications? What are the pros, cons, and risks of selecting HTML5?

2. Rich client web application architecture

Describe the rich client + REST approach to web application development. What are the key features of this architecture? How does it compare to alternative approaches? What are its key strengths and weaknesses?

3. Mobile applications

Discuss what kind of issues should be considered when you are selecting a mobile development platform for

- a) creation of a research prototype that deduces if the user is sleeping
- b) development of a cloud-based commercial consumer solution that finds candidates for ride sharing by matching the route histories of users of the service.

Don't go too deeply into the operation of these hypothetical applications. Instead, think what kind of technical and business needs arise and how the different mobile platforms match these needs. Discuss both a) and b) cases and pay