TEST 2 - Exam Rich Internet Applications

31.01.2011

SRH Hochschule
Heidelberg

Name:

Matriculation Number:

Time: -

No	Question	Points	
1.	Name three possible Layers within a business layer. Draw a sketch of an architecture where the business layer is part of a MVC application that is connected to a database.	8	
2.	Write an abstract about the topic "Dependency Injection" (with the help of a dedicated framework). For which cases do we need that pattern? Discuss the pros and cons of writing software in that way. Name one alternative pattern.	20	
3.	Plan and create a simple contacts manager. The business layer should have only one table / one repository. You can use pseudo-code (C-style, please!), as long as it clear what you want to express. a) Plan the table with its data types. (8) b) Plan the POCO / POJO (data holding object). (4) c) Create a repository with all CRUD operations. (10) d) Create a controller. (5) e) Explain what you have done and why you have done it that way. (5) **f) NEW:** Extend your Repository Layer with paging support!	+ 10	
4.	Draw a sketch (prototype) of your simple contacts manager, with at least 4 screens. a) Name 4 RIA patterns (also known as AJAX patterns) that you could use in the software. (Naming style: I → O → P) b) Describe when and where you would use them with the help of the sketch.	8 + 8	
5.	Write in HTML + JavaScript (both can be "pseudo-code") a code snipped, that loads and displays data from a "**REST**ful web API" in the moment where the user hovers an element with the mouse. (jQuery event handler ".mouseenter()")	14	
	TOTAL:	**70**	