Programming Life - Test and implementation plan

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March 18, 2012

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1 Introduction

In this report the different testing techniques we will use for this project will be explained. Because our solution has a clear division between server and client and because these will be developed in different programming environments, we will also need different testing strategies for the client and server. In chapter 2 a prioritization of the requirements can be found using the MoSCoW system. Chapter 3 will explain how we will test the server and client, and what strategies we will use. Lastly chapter 4 will cover the risk analysis, describing the risks for the successful implementation of the system.

2 MoSCoW prioritization

Requirement	MoSCoW
Circuit Abstraction	Must
Protein specification	Must
Available proteins	Must
Export XML	Must
Interfering signals	Must
Invalid signals	Should
Re-use BioBricks	Should
Multi-client	Could
Local back-up	Could
Import XML	Wont
Biological plausibility	Wont

3 Implementation and tests

3.1 Order of implementation of features

3.1.1 Iterations

3.1.2 Milestones

3.2 Server Test plan

3.2.1 Unit testing

3.2.2 Integration testing

3.2.3 Acceptance testing

3.3 Client Test plan

3.3.1 Unit testing

3.3.2 Integration testing

3.3.3 Acceptance testing

3.4 Testing Client-server integration

4 Risk analysis

(what are the risks for the successful implementation of the system?)