School of Electronics and Computer Science ELEC6050 MEng Group Design Project

Project Specification and Plan

Title: Supporting Effective Randomised Controlled Trials in LifeGuide Interventions

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Team Members:

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Customer: School of Psychology

Project Specification:

- Definition and implementation of an API for the online randomisation, minimisation and stratification of custom data, for the purposes of effectively allocating end users to branches of an online intervention. The API should allow the LifeGuide server to provide an intervention participant, and receive an allocation in return.
- Definition and implementation of a database wrapper which allows data manipulation within a MySQL database for the purposes of intervention creation and end user allocation.
- Implementation of a primitive interface to allow interventions to be created with selected allocation strategies, based on specified participant attributes.
- Delivery of the module in a form which allows it to be easily integrated into the existing LifeGuide system.
- Use of rigorous testing strategies and verification methods to ensure that the system performs correctly.
- Documentation of the software module to allow future integration with the core LifeGuide system.

	Name	Duration	Start			Octob	tober 2013 November 2013 December 2013														Ja	January 201																	
				Finish	3	1	4	7	10	13 1	16 1	19 2	22 2	25 2	28 3	31 3	3 6	5 9) 1	2 1	5 1	18	21	24	27	30	3	6	9	12	15	18	21	24	27	30	2	5	8
1	Literature Review/Research	22d?	02/10/2013	31/10/2013	П																															T			_
2	Creation/Agreement of Project Specification	2d?	04/10/2013	07/10/2013				•																															
3	□API Definition	5d?	07/10/2013	11/10/2013			,		•																														
4	UML Diagram	5d?	07/10/2013	11/10/2013			1	_																															
5	Class Definitions	5d?	07/10/2013	11/10/2013			1	_																															
6	Interface Definitions	5d?	07/10/2013	11/10/2013			1																																
7	⊟Implementation	27d?	11/10/2013	18/11/2013																	•	•																	
В	Interface	27d?	11/10/2013	18/11/2013						_	_	_	_	_		_	_	_	_	_																			
9	Test Harness Creation	27d?	11/10/2013	18/11/2013						_	_	_	_	_		_	_	_	_	_																			
.0	Database Setup	27d?	11/10/2013	18/11/2013						_	_	_	_	_		_	_	_	_	_																			
.1	Strategy Implementations	27d?	11/10/2013	18/11/2013						_	_	_	_	_		_	_	_	_	_																			
.2	⊡Testing	6d?	19/11/2013	26/11/2013																				•															
.3	Unit Testing	6d?	19/11/2013	26/11/2013																																			
.4	Integration Testing	6d?	19/11/2013	26/11/2013																																			
.5	Algorithm Testing	6d?	19/11/2013	26/11/2013																			_	٠.															
.6	Documentation	9d?	27/11/2013	09/12/2013																					_		_			•									
.7	Contingency Time	4d?	09/12/2013	12/12/2013																									_										
.8	□Client Meeting/Discussions	35d?	15/10/2013	02/12/2013																																			
.9	Initial meeting	1d?	15/10/2013	15/10/2013						١.																													
<u>!0</u>	Mid-term meeting	1d?	15/11/2013	15/11/2013																																			
!1	End of term meeting	1d?	02/12/2013	02/12/2013																																			
!2	Seminar 1 Preparation	3d?	21/10/2013	23/10/2013																																			
!3	Seminar 2 Preparation	3d?	18/11/2013	20/11/2013																																			
!4	Presentation Preparation	20d?	12/12/2013	08/01/2014																																			