

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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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.

