

SUMATO: A Survey Solution for the Education Sector

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1. INTRODUCTION

This poster describes a software project developed by two third-year Bachelor of Information and Communications Technology (BICT) students at CPIT.

It has been performed separate from, yet parallel to, the standard BICT papers and has been supervised by principal academic staff member Malcolm Wieck.

2. THE PROJECT

The internet has immense potential for data gathering and online survey solutions exist to harness that potential (Huang & Liaw, 2005). The problem that this project addresses is the lack of high-quality, affordable survey tools that suit the education industry. It has been developed over a period of six months with completion due by the end of October, 2012. The plan is to offer the tool free-of-charge for academic use in beta form, by November 2012.

It differs from free online survey management applications in a number of ways, including:

- Multiple platform options
- Locally stored data
- Emphasis on data security

Technologies used in this project are:

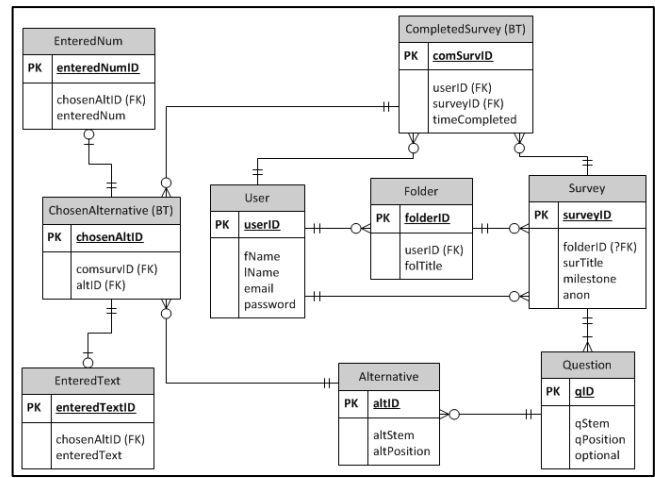
- Server-side:
 - ASP.net MVC4
- Data access:
 - Entity Framework
- Client-side:
 - HTML5 Boilerplate
 - Backbone.js
 - JQuery
- Hosting:
 - Windows Azure
- Version control:
 - GIT

3. CONCLUSION

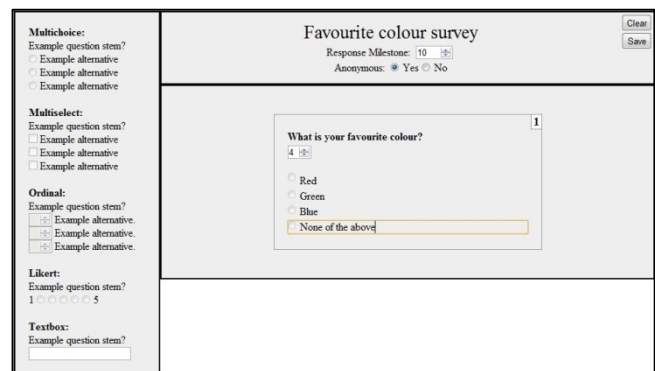
Using the chosen approach, SUMATO will provide a simple, cost-effective, platform-independent survey management tool that meets the needs of survey designers in the education sector.

Along the way, the authors have learned a lot about current

industry technologies and how to deploy them to good effect while meeting a defined need.



Database Design (Entity Relationship Diagram)



Survey Creation Tool (Working Prototype)

REFERENCES

Huang, H. M. & Liaw, S. S. (2005). Exploring users' attitudes and intentions toward the web as a survey tool. *Computers in Human Behavior*, 21(5), 729-743.