**3rd**

**Year**

**Project**

**Team**

**Third Year Computing Project**

**2012/2013**

**Electronic Signup Mobile Solution**

**Project Proposal**

**Design & Development Team:**

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**System Design, Software and Database Development, System Testing & Quality Control.**

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Introduction 3

Project Group 3

Proposal Overview 3

Statement of Problem 3

Objectives 4

Technical Approach 4

Project Management 4

# Introduction

This document will show the selected group which will work together to develop the year three project. There will have a brief overview of the desired project. This will describe how the project fufills the necessary criteria set out in the project guidelines. The main idea of the application to be designed will be described as well as what platform it will be developed for. There will also be a list of potiential features which could be included in the application.

# Project Group

The following students will be involved in the research, design, and development of the third year­ project:­

Maciej Macierzynski - X00086366

Shane Murphy - X00085315

# Proposal Overview

The aim of this application is to provide an alternative solution to traditional pen and paper sign-up solutions. A common complaint with these traditional approaches are illegible names and phone numbers in the registree’s handwriting, generally form processing can be unreliable for a variety of reasons. Eliminating the hand written aspect of forms has the potential to cut out the form processing and circumventing the illegible handwriting issue.

Security can pose a potential problem with pen and paper forms also. If bank or credit card details are required (e.g. ‘Chugger’ signups for Charities), there is a danger of details being stolen from the representatives folder. If these were stored in an encrypted local or remote database, this would provide a more secure experience for both the donator and the charity representative.

We see such an application being useful in a wide range of varied environments, including college society signups, conventions, street marketing and employment fares. The application will provide an intuitive simple and customisable mobile interface to present to the signatories on a mobile device such as a smart phone, tablet, slate or other.

# Statement of Problem

Traditional pen and paper approaches are sometimes difficult to decifer and require the data to be processed using form processing applications or manually entered into a system later. This is a needless overhead in a technologically literate society, many of whom are already familiar with touch screen technology via smart phones and tablets.

# Objectives

The objective is to provide an elegant solution to this widely unexplored problem. A user interface which can be customised based on the clients required questions, Client branding options and local and remote database storage. The created database will be accessible both from the device and from a full website with secre authentication.

These applications will be built for Android devices as hardware costs are lesser on these devices when compared with iOS and Windows 8 devices.

Exports to the local devices would be provided for where available on the device and also in the form of a .CSV files.

# Technical Approach

The application will be developed using JQueryMobile for using natively on android devices. The database will be implemented with using WebServices ASP.NET and oracle. XML may prove to be an option here which will be researched and conclusions presented in a separate research document.

# Project Management

We will use git and github repositories to coordinate our project development.