

# **Project Plan**

**for**

# **DSS Database Suite**

**Version 1.1 Draft**

**Prepared by Iain Smith and Austyn Krutsinger**

**November 10, 2008**

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# Revision History

<b>Name</b>	<b>Date</b>	<b>Reason For Changes</b>	<b>Version</b>
<b>I. Smith</b>	11/10/2008	Created Document	1.0 - Draft
<b>A. Krutsinger</b>	11/11/08	Spell-checking, added addition resources' needed	1.1 - Draft

## **1. Introduction**

This is a living document for the planning and scheduling of all aspects of the solution to the DSS Database Suite project. As such, this document is subject to change as new or more updated information is put out for this project.

## **2. Statement of Work**

Our client has requested a program capable of storing records for all disabled students in their program, past and present, and to provide functionality to digitally create all necessary documentation, as well as equipment loaning, text conversion, test scheduling, and case note taking. This program needs to supply different capabilities to two different types of users that will interact with it: Administrative Users and DSS Employees. Administrators should be able to read and write student information to student records. DSS Employees should be able to read and query student records. In a future iteration a third user type, Student, is to be added, allowing the student to schedule their own tests via a web interface.

This system is to be a database suite, reachable on a Local Area Network in the DSS Offices. It must be capable of containing data for at least 5000 student records and all supplementary student information. There needs to be some algorithms to calculate time taken performing such actions as text conversion and automation of test scheduling to ensure no double booking of time slots. There also needs to be some security for private data stored within the database.

### 3. Roles

In a normal project team, each individual would provide a single specialized role to the project. In this team, however, there are only two members, and, as such, each team member must fulfill different roles at different times to get the job done.

The roles, their descriptions and the individuals assigned to each role as listed below:

<b>Role:</b>	Team Lead
<b>Member(s):</b>	Austyn Krutsinger
<b>Description:</b>	This member is the manager of the team. This member verifies role fulfillment and that the schedule is met. This member ensures meetings and documents are completed in a timely manner.

<b>Role:</b>	Programmer
<b>Member(s):</b>	Iain Smith, Austyn Krutsinger
<b>Description:</b>	The programmer's main task is the management of code created during development. This role is also responsible for preliminary testing of code developed.

<b>Role:</b>	Tester
<b>Member(s):</b>	Austyn Krutsinger, Iain Smith
<b>Description:</b>	The tester's main task is the testing of code created by the programmer. This role is responsible for the meeting of specification requirements by code produced. This role is most active in unit testing through test cases. The testers are responsible for completion determination of finalized products.

<b>Role:</b>	Interface Designer
<b>Member(s):</b>	Iain Smith, Austyn Krutsinger
<b>Description:</b>	The Interface Designer's role is to handle the design and creation of a user friendly system interface. This includes interviewing the stakeholders to ensure desires are met. Interface Designers should also take part in the code development of the interface.

<b>Role:</b>	Data Administrator
<b>Member(s):</b>	Austyn Krutsinger, Iain Smith
<b>Description:</b>	The Data Administrator's role is to be in charge of and contribute to the design, development, security, maintenance and security of the database for the system. The Data Administrator should also take part in the code development of the database system.

## 4. Risks

The following list is the risks known at this time. This list of risks is subject to change should more arise in the development of the project.

<b>Risk:</b>	Too many features to implement with current resources in given time table.
<b>Source:</b>	The lofty long-term vision of the project on the part of the stakeholders.
<b>Likelihood:</b>	100%
<b>Mitigation:</b>	Clearly defined project scope. Phased release of project features. Produce high priority features first.

<b>Risk:</b>	A software product is built that does not satisfy the stakeholder needs.
<b>Source:</b>	Lack of communication between developers and stakeholders.
<b>Likelihood:</b>	10%
<b>Mitigation:</b>	Keep the team's knowledge transparent and open to all interested. Collect stakeholder feedback on team knowledge base often.

<b>Risk:</b>	Software Inexperience
<b>Source:</b>	Use of database language and database interfacing language to which the team members are unfamiliar.
<b>Likelihood:</b>	100%
<b>Mitigation:</b>	View online tutorials and sample code to familiarize themselves before coding begins.

<b>Risk:</b>	Bad weather
<b>Source:</b>	Campus closed due to excessive snow, etc.

<b>Likelihood:</b>	5-10%
<b>Mitigation:</b>	Schedule additional meetings. Work from home. Communicate online.

## 5. Resource List

The following is a list of resources as defined by the current project Vision and Scope and System Requirements Specification.

- Server Hardware
  - Department's Server
- Client Hardware
  - Employee Workstations
- Server Operating System
  - Windows Server 2003/2008 with .NET Framework and MySQL
- Client Operating System
  - Windows XP/Vista with .NET Framework and MySQL extension
- Network Connection
  - Local Area Network
- Programming Languages
  - Database Language: MySQL
  - Client Interfacing Language: C# using Microsoft Visual Studio 2005
- Interfacing Extension
  - C# to MySQL using the ODBC extension
- Unit Testing Software
  - Two computers with:
    - MySQL,
    - HeidiSQL (for editing the database easily during testing),
    - Microsoft Visual Studio 2005 with MySQL extension, and
    - NUnit (for unit testing)
- Training Materials

- Version Control
  - Computer setup with sub-versioning software and be accessible from the internet

## **6. Schedule**

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# Gantt Chart

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## DSS Database Suite

SIUC Disability Support Services

Project Team: Austyn Krutsinger & Iain Smith

Today's Date: 11/13/08 (vertical red line)

Start Date: 9/22/2008 (Mon)

