# Software Development Unit 3-4 SAT Project Proposal

Name Angus Trau Due 09/02/2018

|  |
| --- |
| **THE PROJECT**  You will construct the framework (SRS) for the creation of a software solution that meets a need or opportunity you determine. This is the first part of a project, with the second part undertaken in Unit 4, Outcome 1.   1. **Identify** a real-world need or opportunity 2. **Analyse** a real-world need or opportunity you identified and create an SRS document (using a template we provide) containing    1. solution requirements (Functional and Non-Functional)    2. constraints    3. scope 3. Generate two or three different **design ideas** for creating your solution (we will study a variety of design and systems thinking skills). Your design ideas must include annotations to indicate key functions and layouts 4. Develop and apply **evaluation criteria** to select the preferred design idea. 5. Create a **complete design** for this preferred design idea. This will include the functionality and user interface of the solution. The evaluation criteria will be used in Unit 4 to evaluate the quality of this solution. 6. Prepare a **project plan**, taking into account all stages of the problem-solving methodology covered in this outcome and in Unit 4, Outcome 1 and determine the milestones of your project. |

Title of your project:

Brief description of the project:

This project aims to augment the Compass calendar and provide additional features by aggregating and analysing data from users. It will allow users to search a complete calendar by teacher, room, or class, provide push notifications when an event changes, and provide more detailed calendar data to external clients through iCal.

Who you will contact to gather information for your project analysis?

I will interview students to further understand their use of the Compass calendar system and where it could be improved.

Which of the following do you think you might need to incorporate into your solution. Please describe

* A set of **raw data** (ie a list)   
  A list of calendar events.
* When would you need to **edit the data** in this list?   
  The list will need to be edited when an event is updated, such as when a room change or substitute teacher is assigned.
* When would you need to **add new data** to this list?   
  New data is added to the list when the program detects new calendar events from Compass.
* When would you need to **delete** data from this list?   
  As this program is designed to store and archive every calendar event, it will never delete any data.
* **Extra sets of data**Extra data such as lesson plans will also be stored for easy access.
* **Search** through your data  
  Users will be able to search and filter events by name. teacher, or room.
* **Sort** your data  
  Events will be sorted by their start date and time as they are displayed to the user.
* Produce **output** – printed or on screen eg a ticket, order form, or a sales summary  
  Output will be in the form of a web-app and iCalendar.