

**Deakin University**

Lab Entry Project

Project Scope

Project Sponsor

**T1 2019 Capstone Program**

Project Team

Team B

Bala Chand Tipirneni, 217334617

Jitender Varma Vejella, 217055372

Krithika Arulselvam, 218019529

Pulkit Mehta, 218069424

Sahithi Uppuluri, 217610793

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# Document Revision History

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| 29-03-2019 | 1.0 | Krithika Arulselvam  &  Sahithi Uppuluri | Project Scope Document. |  |  |

# Motivation / Problem Description

* All the students enrolled into a SEBE course or unit must complete a mandatory zero-credit safety unit as the minimum requirement before entering a practical lab class.
* The Safety Units are an online unit hosted on D2L (CloudDeakin), with a quiz, which the student must pass to be able to show proficiency in basic lab safety. Each school has a variation (IT – SIT010; LES – SLE010; A&B – SRA010 & SRA710; Eng – SEJ010 & SEE700)
* The current methods are impractical and time-consuming such as presenting printed out certificate as evidence of unit completion, or checking names against a class list.
* Due to these problems there should be a method of checking if the student has completed the required safety unit in either the current or previous trimester – as they enter the lab.
* The vision of this project is to develop a Web Application that can be used to check that students entering labs have completed the required safety unit.
* There are no current systems that perform the lab entry check hence by undertaking this project; we would be developing a successful one.

# Context

* Background of the problem
* The current problem is that the methods used now are impractical and they are time consuming.
* Paper consumption is also high for printing out certificate of evidence.
* Also the Unit Chair or the responsible authorities have to check the report of each student individually.
* The web application developed will:
* Read and display information.
* Allow the entry of the Unit details (ideally from a dropdown list).
* Display a list of students who have completed the safety unit successfully as required for entry to that lab (ideally would be able to check class allocations to determine which students allocated to attend have/have not completed the safety unit).
* Allow entry of the student details (Name and / or student number) via swipe of Deakin Student Card for one-off checks, to return a “completed” or “not completed” message.

# Value Proposition

The benefits of adopting this solution in terms of:

* + Commercial
* The cost of printing certificate of evidence can be reduced.
  + Social
* The overall time consumption to check the individual student report will be reduced.
  + Technological
* The mobile app can be used to check that students entering labs have completed the required safety unit, sorted by Faculty / Student Name by swiping the Deakin Student Card.
  + Operational
* Send a text message to the student to remind them to complete the Unit
* Send a report to the Unit Chair / other interested parties to be aware of non-completion.

# Core Idea/User Stories/Requirements

* The core idea of our solution is to read and display the student information.
* To allow entry of the student details (Name and / or student number) via the swipe of Deakin Student Card for one-off checks, to return a “completed” or “not completed” message.
* To display a list of students who have successfully completed the lab entry requirements.

# Target Deliverables

* The following goals have been identified as dependencies that need to be addressed early in the life cycle of the project.

1. To develop a web app that:

* Reads and displays the student information.
* Allows downloading a list of all students that have successfully completed the Safety unit, sorted by Faculty / Student Name.

1. Additional functionality:

* To send a text message to students who have not completed the unit to remind them to complete the unit.
* To send a report to the Unit Chair or other responsible authorities about the students who have not completed the unit.

# Roadmap

The roadmap to the execution and delivery of this project is detailed subsequently.

## Execution Strategy

There will be 2 phases:

1. Design and Develop a prototype (or series of prototypes),

2. Operationalise the API and Web App

* Incrementally,
  + Data will be sourced via an API that will be developed by the eSolutions Tactical Team
  + After developing the Web App we will consult with the eSolutions Technical experts to determine where the app will be stored, and if required standards & procedures for operationalisation.
  + For the Operationalisation Process, the API needs to undergo a Security assessment and a Data Use Agreement.
* Prepare research report
* Provide knowledge transfer

## Sprint 0

**Goals**

* The goal of Sprint 0 is to achieve group collaboration, discuss and arrange meeting (client name) to agree on the acceptance criteria and priority for the deliverables. These can be decomposed to:
* In detailed discussion about the project with client and gathering requirements.
* Problem domain classification.
* To formulate an initial plan to start working on the project.

**Target deliverables**

* Created all the necessary communication channels such as GitHub, Trello and slack accounts for group.
* Workflow diagrammatic representation that has been agreed upon by everyone.
* Communication and delivery expectations that has been agreed upon by everyone.

**Sprint 1**

**Goals**

The goal of Sprint 1 is to deliver the scope document and work with the Client to agree on the acceptance criteria and priority for the deliverables. These can be decomposed to:

* Clarification of the problem domain.
* Detailed description of the project descriptions.
* Success criteria of the project.
* Visual depiction of the workflow in a Wireframe diagram of the processes that this project will automate.

**Target deliverables**

* Workflow flowchart that has been agreed upon by all parties.
* Tasks are assigned to all the members according to their respective roles.
* Meeting conducted with supervisor and client and gathered all the requirements needed to design the project.
* The scope document that has been agreed upon by everyone.

# Limitations, Constraints and Considerations

The limitations, constraints and considerations of the project are as follows:

* The client changed the project description from developing the mobile app to develop a web app.
* Hence the project deliverable is changed from developing a mobile app to develop a web app.
* Due to the lack of resources, the student ID card scanner is not used.
* Instead of using the student ID scanner, the student details will be used to login.