# Presentation Drafting Script

## Actual script

**Title**

Good morning, I am Joshua Paterson and I’m the student assigned to the team management application for personal electronic devices project.

### A

**Problem description**

The projects finished state will be an application accessible on PED’s (personal electronic device) or phones designed for co-ordinating and collaboration of teams, tasks and projects that is approved for a security classification of up to official. The aim of the project is to better time management and record keeping of work projects and team tasks.

The reason for this project or the issues with current methods include security approval, standardising a method to organise team projects and the capability to update and access project information wherever a user is.

Due to the security standards outlined for defence and army there is a limited number of options to help coordinate personal to select from. Currently Project organisation is done using DRN calendars, excel spreadsheets, vera teams pen and paper meaning organisation is distributed across many applications or sources.

As there is no standardised method of organizing projects and because of this there is no way to easily access records of these projects as this information is stored at a different location per project resulting in poor record keeping.

A lot of the current method used such as excel spread sheets can’t be updated from wherever a person currently is or rely on an individual to keep track of completed, or updated tasks. This makes having up to date information impossible as there is difficulty updating and distributing information to all team members.

**High levels**

This translated to 2 core needs being Security and Capability.

**Security**

The application will need to be clear by defence to have access to information at a security clearance of official at minimum or higher securities levels.

This will mean data send over any network will need to be encrypted, users will need to be authenticated and data stored will also need to be encrypted. The algorithms listed will be used to achieve this.

Severs will need to be hosted by army or defence to maintain control of database information.

Any other possible security vulnerability will also need to be addressed, these will include but not limited to cross website scripting, sql injection, key loggers just for example.

**Capability**

The second core need is capability.

Users will need the application to be capable of organising, sorting, and tracking on going work projects from wherever a user is.

Users will require a way for individual assigned to teams to communicate in a quick and easy manner.

And the user interface for clients will need to be easy to navigate to important information as well as ways to filter only important information to prevent screen cluttering as most users will be using the application on small screens.

**Project Constraints**

There will be two major constraints on this project being the issues with IOS kill codes and the extra security variabilities of web applications.

**-Ios**

The most impactful security issues are with iOS kill codes installed on all apple devices using iOS 9 and onwards.

Mobile device management administrator can remotely enable lost mode and from there remotely lock and wipe devices. It should be noted that this can be done without any agreement with user if desired from apple, at least from a technical perspective and these devices do not give the option to disable this functionality.

This is an issue as if apple desired, they could wipe all apple devices used by Australian defence personnel. As the app aims to be used to coordinate defence personnel having a 3rd party with the power to disrupt communication would be a major security concern. To avoid this the app will not be designed for apple devices.

**-web app**

A possible option for creating an application without having to consider platform compatibility is by creating a website or web-application however there are many security issues with developing these webs-apps or website.

The issues with web application mainly stem from the fact that a website is not isolated from the other programs running on a user’s system. Due to the limited time and developers on the project it will not be feasible to develop an application that is able to handle all these security issues. To complete this project in the timeframe a mobile app will be developed as they are fully executable programs with far less security issues to handle which will therefore save time however this will mean that creating a desktop version or one accessible on apples devices will require creating a new application specific for that platform.

Some examples of the security issues or vulnerability of web application are on screen now.

**Project description /approach**

For this project I have decided to create a mobile application and sever written using the programming language java. The app will be made using an agile development methodology this will be done by separating app features and capabilities into separate subsystems which will each be designed and implemented independently.

### B

**Milestones -**

The project will have 8 milestones to represent progress on the project these can be seen on screen now.

-Client to Server Database encrypted communication will entail the ability for user app to communicate with a sever fully encrypted using the previously stated algorithms.

- User authentication is the ability to login into the app or be authenticated by the sever

- User registration is similar except it declares a new user to the server

- Home ui skeleton will be the general look and navigation of the application with placeholders for the upcoming features.

From this point in development the app will be made by separating app features and capabilities into separate subsystems which will each be designed and implemented independently features 1 through 4 entails creating the capability required to manage, sort and track user work projects. These features will be a task organiser, group and individual messaging, personalised check list and a team message board.

**Completed milestones.**

Currently the completed milestones include the first 4 being Client to Server Database encrypted communication, login and user registration and UI skeleton. These milestones aims to create the security required and general navigation of the application.

Having these milestones complete means that the backend of the app is complete, security measure are in place allowing client apps and the sever are able to communicate without risk of leaking information to any party that would be trying to listen and a simple method to authenticate or identify client apps trying to get access to project information is in place and the interface is ready to start developing a way for users to access and upload information to the sever is in place.

* Talk about images
  + Note that colour scheme and general look is all place holder

### C

**To be completed milestones**

The to be completed milestones include features 1 through 4. These milestones aim to bring the functionality required to meet the capability need to the application.

Feature 1 or team organiser is the feature I’m currently working on. It aims to be something similar to the image on screen now (note that the image is not my app just something I found to visualise what im going to try to do), so its going to be some kind of gnat chart this feature intends to be a way for user to get an overview of the project I also plan to make the chart a bit interactive so you can click on a task and see things like people assigned to it, timeframes, task specific updates things like that.

Feature 2 is simple to understand its just the ability to use the app to communicate between other users through text. Think Facebook or anything like it.

Feature 3 is personalised check lists, this feature I haven’t got fully planned out but the intent behind is to have a way for individuals to filter out the tasks that they are assigned to or responsible for without having to find or explore the chart from feature 1 that could potentially become very cluttered for larger scale projects.

And feature 4 will simply be a way for team leaders to post information to all team members.

### D

Describe what have you learnt.

### E

Questions