

COMP3000

Computing Project

2020/2021

Project Title : Using software to educate user's in cyber security and to help reduce security risks.

Links

Source code: <https://github.com/CadL94/COMP3000Project>

Backlog : Office 365 planner.

<https://tasks.office.com/live.plymouth.ac.uk/Home/PlanViews/E1tU5KecgU2GcVEPXZCfrpYAG-qQ?Type=PlanLink&Channel=Link&CreatedTime=637387414829290000>

Project Vision

Human error plays a big part in cybersecurity incidents as it can lead to security risks unintentionally. I am hoping that from creating this application It can help reduce these risks by educating the user and providing tools to enhance security of the device. This could be in the form of an informative quiz, password strength checker + strong password generator, file encryption/decryption feature.

For [users of Computing devices]

Who [want to become more secure and increase knowledge about cyber security]

The [Cyber sec educate & tools]

Is a [Application for android]

That [will educate the user in cyber security and provide multiple tools to do so]

Risk Plan

Individual Scores

1 Very Low

2 Low

3 Medium

4 High

5 Very High

Overall Scores

1 - 5 Very Low

6 – 10 Low

11 – 15 Medium

16 – 20 High

21 – 25 Very High

Number	Risk	Description	Impact score	Likelihood score	Overall score	Mitigation
1	Loss of files	Files could be lost due to faulty or broken hardware. Project could be delayed or not able to be completed.	5	2	10	Make sure I routinely back up the files using a combination of cloud storage and hardware.
2	Plymouth University campus is closed temporarily due to coronavirus	As we are currently in a pandemic due to coronavirus the university campus could close temporarily in a lockdown. This would restrict access to using lab equipment.	1	4	4	Make sure all software needed for the project is installed on personal computer and virtual machine at home.
3	Plymouth University campus is closed permanently due to coronavirus	University could close for the foreseeable future due to coronavirus. This means I would only be able to use my own computer/hardware as the lab would not be accessible.	1	3	3	Make sure all software needed for the project is installed on personal computer and virtual machine at home.

4	Project deadline not being met	The project deadline may not be met due to numerous problems that could occur or poor planning.	3	2	6	Create sprints in Microsoft planner to keep organised to ensure individual project deadlines are being met
5	Sprints not being completed/Incorrect assumptions about time required to complete tasks within sprints.	Not completing sprints on time multiple times could create a big backlog causing stress and possibly delaying project completion.	4	3	12	Make sure project has been planned well and be realistic with my own ability.
6	Home Internet going down	Internet at home could become unavailable which stop work being done on the project from home.	5	2	10	Go to the university (if open) to use lab machines if internet is down for a long period of time/days. Create a hotspot on my mobile so my computer can use my phones data for the internet.
7	Zoom going down	Zoom could become unavailable which would stop weekly video contact with project supervisor.	3	1	3	Use emails to keep in contact with project supervisor or possibly find another platform for video calls.
8	Loss of code/configuration	Loss of code/configuration could delay progress with creating the app.	4	2	8	Code will be committed to github.
9	Difficulty using the software/language required	If I am struggling to use the software or language required to create my app this could lead to failure of completing the project.	5	2	10	When planning the project the software and language chosen will be something I am familiar/more experienced with.

Keywords

Cyber security, Education, tools, risks, android

