### **ASSIGNMENT 2: FINAL REPORT**

### **TEAM PROFILE**

**TEAM NAME:** IS-Project Group 8 (can we come up with a legitimate name)

### PERSONAL INFORMATION:

### PROVIDE PERSONAL INFORMATION

### Michael Schirmacher:

Photo:



• Student Number: s3839996

• Background: Born in South Africa

• Hobbies: video games, building computers

• IT Interest: java programming, building computers, games development, mobile application development

• IT Experience: java programming

### Joshua Dal Santo:

Photo

• Student Number: s3841210

• Background: Italian

• Hobbies: Building computers, watch tech videos like Linus Tech Tips

• IT Interest: Networking and security + Building computers

• IT Experience: Cert III in Information, Digital Media and Technology

### **Chathura Morawakage:**

- Photo
- Student Number
- Background
- Hobbies
- IT Interest
- IT Experience

### Kavishka Handurugama Yapa:



Student Number: s3829972Background: Born in Sri Lanka

• Hobbies: Playing Games

• IT Interest: Data analysis, Multimedia Designing.

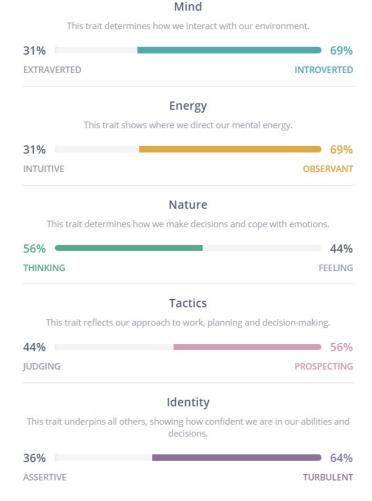
• IT Experience: -

### **TEAM PROFILE**

**TEST OUTCOMES:** preferably attach a photo of the test results

### Michael:

• Myers-Briggs:



### • Online learning style:

# What's Your Learning Style? The Results

### Your Scores:

Printer Friendly Version

Auditory: 40%

Visual: 35%

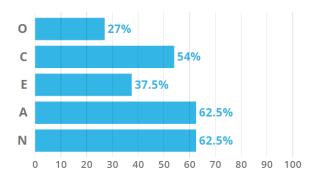
Tactile: 25%

You are an Auditory learner! Check out the information below, or view all of the learning styles.

• Test of choice:

# Your Personality Trait Scores

This Big Five assessment measures your scores on five major dimensions of personality: Openness, Conscientiousness, Extraversion, Agreeableness, and Neuroticism (sometimes abbreviated OCEAN). Check out your scores on each of the five dimensions in the graph below, then read on to discover what each score means.



## <u>Joshua</u>:

• Myers-Briggs: INTJ - The Mastermind



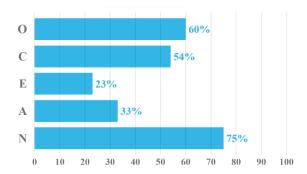
### • Online learning style:

### Your scores:

Auditory: 30%Visual: 40%Tactile: 30%

You are a Visual learner! Check out the information below, or view all of the learning styles.

### • Test of choice:

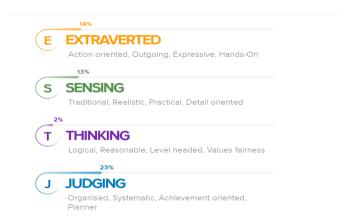


### Chathura:

- Myers-Briggs:
- Online learning style:
- Test of choice:

### Kavishka:

• Myers-Briggs:



• Online learning style:

### What's Your Learning Style? The Results

Your Scores:

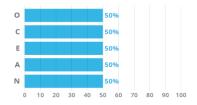
• Auditory: 45%

• Visual: 30%

You are an Auditory learner! Check out the information below, or view all of the learning styles.

• Test of choice:

• Tactile: 25%



### **IDEAL JOBS**

**LIST IDEAL JOBS** 

Michael: Java Software Developer

Joshua: Security Engineer / Network Administrator

Chathura: iOS / Mobile Application Developer

<u>Kavishka</u>: Data Analyst

#### **COMPARE AND CONTRAST IDEAL JOBS:**

- What common elements are there, if any?
- What differentiates each position from the others, if anything?
- How similar or different are your career plans across the group?

### **TOOLS**

### **INDIVIDUAL AWS WEBSITES:**

Michael: https://s3839996.s3.amazonaws.com/index.html

Joshua:

https://assignment1profile.s3.amazonaws.com/j2kb5kl432b654b5634bj5k2b45kj2boo5o3n

<u>bn.html</u>

<u>Chathura</u>: <a href="https://s3848993.s3.amazonaws.com/main.html">https://s3848993.s3.amazonaws.com/main.html</a>

Kavishka: https://kavishka1.s3.amazonaws.com/HTML/personal+information.html

### **GITHUB:**

• Link to GitHub:

### RESOURCES / REFERENCES: list of resources used to compile report

- Maria Sullivan, C., 2020. A Day In The Life Of An IT Professional: What You've Told Us About Yourself. [online] Network World. Available at:
   <a href="https://www.networkworld.com/article/2214170/a-day-in-the-life-of-an-it-professional--what-you-ve-told-us-about-yourself.html">https://www.networkworld.com/article/2214170/a-day-in-the-life-of-an-it-professional--what-you-ve-told-us-about-yourself.html</a> [Accessed 26 April 2020].
- Itbusinessedge.com. 2020. *Twelve Challenges Facing IT Professionals*. [online] Available at: <a href="https://www.itbusinessedge.com/slideshows/twelve-challenges-facing-it-professionals-in-2014-08.html">https://www.itbusinessedge.com/slideshows/twelve-challenges-facing-it-professionals-in-2014-08.html</a> [Accessed 26 April 2020].

- Work.chron.com. 2020. Challenges Of Information Technology Management In The 21St Century. [online] Available at: <a href="https://work.chron.com/challenges-information-technology-management-21st-century-28780.html">https://work.chron.com/challenges-information-technology-management-21st-century-28780.html</a> [Accessed 26 April 2020].
- Work.chron.com. 2020. The Role Of An IT Specialist. [online] Available at:
   <a href="https://work.chron.com/role-specialist-1922.html">https://work.chron.com/role-specialist-1922.html</a> [Accessed 26 April 2020].
- Zurkus, K., 2020. *It'S* 10 O'clock Do You Know What Your IT Security Team Is Doing?. [online] CIO. Available at: <a href="https://www.cio.com/article/2983677/its-10-oclock-do-you-know-what-your-it-security-team-is-doing.html">https://www.cio.com/article/2983677/its-10-oclock-do-you-know-what-your-it-security-team-is-doing.html</a> [Accessed 26 April 2020].
- Interview with IT professional. (2020). [Video]. Retrieved 26 April 2020, from https://youtu.be/GFMeuSIhIYg.
- IT Professionals Australia. 2020. *Home IT Professionals Australia*. [online] Available at: <a href="http://www.professionalsaustralia.org.au/information-technology/">http://www.professionalsaustralia.org.au/information-technology/</a> [Accessed 27 April 2020].
- EDUCBA. 2020. What's Is A IT Professional | Definition | Tools | Meaning. [online] Available at: <a href="https://www.educba.com/it-professional">https://www.educba.com/it-professional</a> [Accessed 27 April 2020].
- Professionalrisk.com.au. 2020. *CPR Insurance Services*. [online] Available at: <a href="http://www.professionalrisk.com.au/pages/information/it-liability-faq/what-are-it-professionals.php">http://www.professionalrisk.com.au/pages/information/it-liability-faq/what-are-it-professionals.php</a> [Accessed 27 April 2020].
- Professional, C., 2020. Challenges Of An IT Professional Technoparktoday.Com Techies News, Jobs, Events & Lifestyle!. [online] TechnoparkToday.com Techies
  News, Jobs, Events & Lifestyle!. Available at:
  <a href="http://www.technoparktoday.com/challenges-of-an-it-professional/">http://www.technoparktoday.com/challenges-of-an-it-professional/</a>> [Accessed 27
  April 2020].

### **INDUSTRY DATA**

### **QUESTION 1: IDEAL JOB RANKING**

How do each of your ideal jobs rank in terms of demand from employers?

- RANK 1: Java Developer (average number of jobs = 1,691)
  - ("Java" -> 1,833 jobs) <a href="https://www.seek.com.au/java-jobs">https://www.seek.com.au/java-jobs</a>
  - ("Java Developer" -> 2,240 jobs) <a href="https://sites.rmit.edu.au/csit-careers/jobstatistics/">https://sites.rmit.edu.au/csit-careers/jobstatistics/</a>
  - ("Java" -> 1000+ jobs) <a href="https://au.linkedin.com/jobs/java-jobs?position=1&pageNum=0">https://au.linkedin.com/jobs/java-jobs?position=1&pageNum=0</a>
- RANK 2: Security Engineer (average number of jobs = 1,337)
  - ("Security Engineer" -> 1,463 jobs) <a href="https://www.seek.com.au/security-engineer-jobs">https://www.seek.com.au/security-engineer-jobs</a>
  - ("Network Engineer" -> 2,223 jobs) <a href="https://sites.rmit.edu.au/csit-careers/job-statistics/">https://sites.rmit.edu.au/csit-careers/job-statistics/</a>
  - ("Security Engineer" -> 326 jobs) <a href="https://au.linkedin.com/jobs/security-engineer-jobs?position=1&pageNum=0">https://au.linkedin.com/jobs/security-engineer-jobs?position=1&pageNum=0</a>
- RANK 3: Data Analyst (average number of jobs = 1,128)
  - ("Data Analyst" -> 455 jobs) <a href="https://au.linkedin.com/jobs/data-analyst-jobs?position=1&pageNum=0">https://au.linkedin.com/jobs/data-analyst-jobs?position=1&pageNum=0</a>
  - ("Data Analyst" -> 1,589 jobs) <a href="https://au.indeed.com/Data-Analyst-jobs">https://au.indeed.com/Data-Analyst-jobs</a>
  - ("Data Scientist" -> 1,339 jobs) <a href="https://sites.rmit.edu.au/csit-careers/jobstatistics/">https://sites.rmit.edu.au/csit-careers/jobstatistics/</a>
- RANK 4: iOS Developer (average number of jobs = 761)
  - ("iOS Developer" -> 320 jobs) <a href="https://au.linkedin.com/jobs/ios-developer-jobs?position=1&pageNum=0">https://au.linkedin.com/jobs/ios-developer-jobs?position=1&pageNum=0</a>
  - o ("iOS developer" -> 288 jobs) https://www.seek.com.au/ios-developer-jobs
  - ("iOS developer" -> 153 jobs) <a href="https://au.indeed.com/los-Developer-jobs">https://au.indeed.com/los-Developer-jobs</a>

### **QUESTION 2: SKILL SET**

### <u>Java Software Developer</u>

- General skills:
  - o working in an agile environment
  - o flexible attitude / approach to work
  - troubleshooting / problem-solving skills
  - o communication
- IT-specific skills:
  - o programming (java)
  - react/redux

- o AWS
- o 00P
- o networking
- o docker deployment
- CI/CD technology

### **Data Analyst**

- General skills:
  - o problem-solving
  - o high level mathematical ability
  - o attention to detail
  - o teamwork
  - o writing
  - o communication
- IT-specific skills:
  - o programming (SQL, Oracle, Python)
  - o excel
  - o machine learning (artificial intelligence, predictive analysis)
  - o data visualisation (Tableau)

### iOS Developer

- General skills:
  - o teamwork
  - o attention to detail
  - design creativity
  - o communication
  - o presentation skills
- IT-specific skills:
  - o mobile app development
  - o Linux
  - o programming (Swift, Java, Objective-C)
  - o remote data
  - third-party libraries and APIs

### **SECURITY ENGINEER**

- General skills:
  - o teamwork
  - o ability to work in face-paced environment
  - o attention to detail
  - highly organised
  - o communication
  - o problem-solving / troubleshooting
  - flexibility / adaptability
- IT-specific skills:
  - o anti-malware
  - encryption
  - threat modelling / security risk assessments
  - system administration
  - o network administration / configuration
  - o firewall administration / configuration

### **QUESTION 2.1: IT SKILL SET RANKING**

BASED ON: https://sites.rmit.edu.au/csit-careers/job-statistics/

How do the <u>IT-specific skills</u> in your required skill set rank in terms of demand from employers?

- RANK 1: SQL (listed 5,529 times)
- RANK 2: Java (listed 4,742 times)
- RANK 3: Python (listed 2,769 times)

### **QUESTION 2.2: GENERAL SKILL SET RANKING**

BASED ON: https://sites.rmit.edu.au/csit-careers/job-statistics/

How do the general skills in your required skill set rank in terms of demand from employers?

- RANK 1: Communication (listed 10,415 times)
- RANK 2: Problem Solving (listed 5,269 times)
- RANK 3: Writing (listed 3,049 times)

### **QUESTION 2.3: IT SKILL SET RANKING**

BASED ON: https://sites.rmit.edu.au/csit-careers/job-statistics/

What are the three highest ranked IT-specific skills which are not in your required skill set?

- RANK 1: JavaScript (listed 4,742 times)
- RANK 2: Systems Development Cycle (listed 1,935 times)
- RANK 3: Scrum (listed 1,836 times)

### **QUESTION 2.4: IT SKILL SET RANKING**

BASED ON: https://sites.rmit.edu.au/csit-careers/job-statistics/

What are the three highest ranked general skills which are not in your required skill set?

- RANK 1: Planning (listed 4,244 times)
- RANK 2: Research (listed 2,641 times)
- RANK 3: Verbal / Oral Communication (listed 1,694 times)

## QUESTION 3: CONCLUSION

Having looked at your updated data, has your opinion of your ideal job changed? Why or why not?

<u>Michael</u>: My opinion on my ideal job has not changed at all. The reason for this is that my research has indicated that my job is in high demand from employers, and is also in the top 5 highest paying jobs in IT.

<u>Joshua</u>: My decision has not changed. I like networking and security and by looking at the skills required for the job I know that I would be well suited for a job in networking and security as I am very organised and communicate well with my team. From the data I can see that my job is also high in demand which reassures me that I will be able to find a job in this field.

<u>Chathura</u> :			
<u>Kavishka</u> :			

#### **IT WORK**

CHOSEN APPROACH: View, summarise and discuss at least 10 recent YouTube videos or other web sources

### **QUESTION 1:**

What kind of work is done by the IT professional?

- Network administration It is the responsibility of IT professionals to support the day to day activities of a computer network. Their role is to ensure network systems keep communication and information properly.
- Security administration IT experts play a critical role in software design to deter cyber-attacks from the people with criminal intents on the internet. And their main goal is preventing the internet become a fertile field for their unlawful acts.
- Database analyst To coordinate, monitor and store data, IT specialists use special
  tools. It covers accounting reports, shipping records, sales orders, payroll records,
  and operating expenses -etc. Database administrators make this information
  accessible to users and create security protocols that prevent unauthorized access to
  the database.
- Cloud computing Moving data storage to the cloud means more than just buying a
  few megabytes of online space. It is not as straightforward as moving an in-house
  machine to an outsource. Moving to the cloud involves assessing an organization's
  needs, and then preparing and developing the installation. So, this is the task which
  must done by cloud computing professionals.
- Software developers / Engineers In a machine, a software system runs everything you do, and someone has got to write the code for that system. That is a software developer's work. The software engineer checks and loads the programs on to the machines after a software developer has written the codes and developed a program. These developers use their experience of hardware machines and software codes to execute the systems to make them convenient for non-IT workers to use.

#### **QUESTION 2:**

What kinds of people does the IT professional interact with? Are they other IT professionals? Clients? Investors? The general public?

- The IT environment extends through all aspects of the planet today. Focusing exclusively on technologies and knowledge lacks the wider reach IT practitioners seek to practice and interact with other practitioners. Governance, Private sector and society are just a few of the environmental elements of the IT work. IT professionals are mainly interacting with their stakeholders because most of the time, the task which IT professional must accomplish is required by their clients or stakeholders so those clients might be the government or a private company or a single investor. As mentioned above, each kind of IT professional encounter with their own career tasks.
- There is another hidden party which IT professional interact with. If any, IT workers who stay for a long time in a job without learning new IT skills and training, then they are end up with who knows only one programming language, one database

resource, one operating system or one technique. So, in this case some IT professionals interact with some other IT experts who can teach recent resources that peregrinate in current IT world.

### **QUESTION 3:**

Where does the IT professional spend most of their time?

• From the videos which we referred and according to recent study from the Bureau of Labour Statistics, more than half of you (53%) will consider just 10 hours or less a week to enjoy recreational activities. In fact, 43% of the IT professionals we surveyed spend 40 to 60 hours per week at work, higher than the national average of 34 hours. So, it's clearly demonstrated that IT professionals are mostly spending time in their workplace and some of those professionals (Security administration, Network administration and Cloud computing etc.) might be able to available in 24/7. Especially Security administration should be available at any time when there is a collapse of a system. Hence these types of specialists mostly work from their home or their own space.

#### **QUESTION 4:**

What aspects of their position is most challenging?

Right now, technology is innovating at a staggering rate. As soon as one tool or piece of software appears, something new seems to be emerging that will make it outdated. Since this rapid technology development IT professionals have to spend a considerable time towards update their knowledge. It's bit challenging when they are working with Industry. And, Data analysts are facing unstructured data problems in these days. Unstructured data is rising faster than structured data. Being a fairly new and untapped source of organizational insight, unstructured data analytics has the ability to uncover more critical interrelationships that were very difficult or impossible to establish before. Moreover, the ability to connect vast numbers of machines to a single network, known as cloud computing, that is also leads to presents IT professionals with several challenges. Some of the most contentious problems is who controls the data and whether the provider can maintain it. Distance communication is also matter, conventional offices become less important as digital technology such as e-mail, instant messaging and video conferencing allow workers to work remotely. Consequently, IT professionals are likely to encounter unprecedented pressure to maintain networks operating at the maximum capacity.

### **IT TECHNOLOGIES**

### **CLOUD COMPUTING --> CHATHURA**

- What does it do? (600 words)
  - O What is the state of the art of this new technology?
  - O What can be done now?
  - O What is likely to be able to be done soon?
  - o What technological or other developments make this possible?
- What is the likely impact? (300 words)
  - O What is the potential impact of this development?
  - O What is likely to change?
  - O Which people will be most affected and how?
  - o Will this create, replace or make redundant any current jobs or technologies?
- How will this affect you? (300 words)
  - o In your daily life, how will this affect you?
  - O What will be different for you?
  - o How might this affect members of your family of your friends?

### **SMALL COMPUTING DEVICES --> CHATHURA**

- What does it do? (600 words)
  - O What is the state of the art of this new technology?
  - O What can be done now?
  - O What is likely to be able to be done soon?
  - What technological or other developments make this possible?

...

- What is the likely impact? (300 words)
  - O What is the potential impact of this development?
  - o What is likely to change?
  - O Which people will be most affected and how?
  - Will this create, replace or make redundant any current jobs or technologies?

...

- How will this affect you? (300 words)
  - o In your daily life, how will this affect you?
  - O What will be different for you?
  - O How might this affect members of your family of your friends?

...

### **DATA SCIENCE / ANALYTICS --> KAVISH**

What does it do? (600 words)

- O What is the state of the art of this new technology?
- O What can be done now?
- O What is likely to be able to be done soon?
- What technological or other developments make this possible?

...

- What is the likely impact? (300 words)
  - O What is the potential impact of this development?
  - O What is likely to change?
  - O Which people will be most affected and how?
  - o Will this create, replace or make redundant any current jobs or technologies?

...

- How will this affect you? (300 words)
  - o In your daily life, how will this affect you?
  - O What will be different for you?
  - o How might this affect members of your family of your friends?

•••

### CYBERSECURITY --> MICHAEL ... WORK IN PROGRESS

SecBi, "Al and you: Artificial Intelligence in Cybersecurity", Accessed 1/05/2020, <a href="https://www.secbi.com/ai-and-you-artificial-intelligence-in-cybersecurity/">https://www.secbi.com/ai-and-you-artificial-intelligence-in-cybersecurity/></a>

https://www.itproportal.com/features/the-importance-of-maintaining-cyber-security-in-your-business/

https://www.bls.gov/ooh/computer-and-information-technology/information-security-analysts.htm

- What does it do? (600 words)
  - O What is the state of the art of this new technology?
  - O What can be done now?
  - O What is likely to be able to be done soon?
  - o What technological or other developments make this possible?

Our world as we know it has started to become more and more dependent on technology over the last several decades. And throughout this time, technology has evolved in ways that were completely unimaginable before, and it will only continue to evolve at a staggering rate, particularly over the next few decades. Due to our increased reliance of these technologies, such as computer systems and networks, we need to ensure that these devices are protected from potential damage to their software, hardware and other electronic parts.

This is where the term "Cybersecurity" comes into play, which is referring to the practices that are in place to ensure the protection and safety of these electronic systems and networks. This protection can be done through tools, programs, software, and a range of other technologies; depending on what you're trying to protect (whether it be a network, your data, your identity / personal information, or your personal devices). Some examples of current Cybersecurity tools include antivirus software, firewalls, encryption tools, and monitoring / scanning tools for networks.

Current developments in Cybersecurity seem to mainly be involving Artificial Intelligence and Machine Learning, and as such, this technology could also be considered the "state of the art" of Cybersecurity. The way that this technology is utilised in Cybersecurity is by using machine learning to identify common patterns of potential threats and respond to them as soon as they're detected on a system.

An early stage using machine learning in cybersecurity is our common Antivirus software, which uses a form of artificial intelligence known as "signature analysis" (which relies on a list of attributes of past threats to then identify new ones). This method can be problematic as this only able to identify past and current threats, and not new ones whose attributes are completely unknown. So rather than using "signature analysis", another mechanism known as "behavioural analysis" can be used, which is where the actions of the files are examined, rather than judging them only based on their signature or appearance. However, just like "signature analysis", this method can also have severe problems / bypasses, as it can be fooled by malware that cannot be detected until runtime. So, what other alternatives are there? Well, there is a third AI mechanism, called "anomaly detection". Unlike the other two mechanisms, this one takes note of the activity patterns of potential threats, and from this it sets a baseline to which other threats can be compared to. The only downside to this mechanism is that it can quite often send out a false positive, but it's safer to block all potential threats (and have a few false positives), rather than letting through the threats in the first place. And these false positives can often be "whitelisted" by the user, which tells the mechanism that this program / file is safe, and it should ignore it in the future. Nowadays, most antivirus software's utilise many (if not all) of these AI mechanisms.

So, what does the future hold for AI and cybersecurity? First off, these "traditional" AI methods will not be sufficient enough to handle threats that we will soon have to face, so a much more advanced form of AI will be required. This is where "Machine Learning" is introduced, which is still a very new technology in itself. Machine Learning allows for rapid analysis of large amounts of data, allowing it to uncover "hidden patterns" without having to even learn about the attributes of the threats and then make comparisons. This will allow our threat detection systems to be more efficient and ensure the safety or more systems at the same time. Additionally, other AI technologies such as deep learning and neural networks are also starting to be investigated for potential cybersecurity implementations, so expect to see these in the future.

- What is the likely impact? (300 words)
  - O What is the potential impact of this development?
  - O What is likely to change?

- O Which people will be most affected and how?
- o Will this create, replace or make redundant any current jobs or technologies?

Despite some of the fallbacks of current cybersecurity technologies, these technologies are still providing somewhat suitable protection for our computer systems and networks. These security measures will mostly affect businesses, with both big and small business being at equal risk if a potential cyber-attack. According to the Cyber Security Breaches Survey, 'nearly half (43 per cent) of all UK businesses had reported cyber security breaches or attacks in the last 12 months'. This re-enforces the importance that businesses all implement cybersecurity measures as to ensure the safety of their files, software, systems, websites, and potentially other assets. Due to this high demand of security requested by businesses, the field of Cybersecurity is said grow exponentially, and according to the 'U.S Bureau of Labor Statistics', this demand will grow by more than 32% from 2018-2022, with tens of thousands of jobs set to be created. In terms of the changes in Cybersecurity we can expect to see in the near future, there may be a transition away from traditional Al mechanisms, and standard will be set to use more advanced algorithms such as previously mentioned Machine learning, deep learning, and neural networks

- How will this affect you? (300 words)
  - o In your daily life, how will this affect you?
  - O What will be different for you?
  - o How might this affect members of your family of your friends?

#### **PROJECT IDEA**

### **DESCRIPTION OF PROJECT IDEA --> JOSH**

As a group we decided that our project idea would be a health issue prediction tool. This tool would be a web-based application, with the potential of eventually being made into an application for mobile phones, such as iOS and Android. The web application would allow Australian's to go online and predict any health issues they may have based off information they provide to the system.

When users first access the website, they will be promoted to enter personal information such as their age, sex, and any past medical issues they have had. Users will then be asked if they optionally would like to enter more information. The more information the user enters the more accurate the predictions will be. Additional information they can enter could be ethnicity, diet, weight, any family illnesses, are they smokers, alcohol consumption, etc.

After the user enters the information they have chosen to share, the system will analyse their information against existing medical conditions. For example, a user enters that they are in their 60s, have had a cough, nasal congestion and a headache. The system will look at these symptoms and determine what the most likely medical condition for this is. After giving the user the most likely medical condition, it will advise them on the next steps to

take which could include taking cold medication and resting or seeing a doctor if it gets worse.

Privacy and security will have to be a major part of this system as it would store and manage highly confidential information. To ensure the privacy of users the system would allow users to get health predictions without having to create an account or entering any identifying information such as name, address, Medicare number, etc. After a user gets their personal information/symptoms analysed, users could optionally choose to create an account in order to store their information that they have entered. By giving users the ability to store their personal information they would be saving time the next time they needed to use the system as they would not have to re-enter all of their personal information, instead they would only have to log in and enter their new symptoms.

The system could be useful in reducing the stress on the public health system. By using this online system Australian's would not have to visit their general practitioner as often, therefore saving funds and resources for other Australian's with serious health issues. The stress on the public health system is more apparent now than ever due to the COVID-19 pandemic as many Australian's are going to their general practitioner to diagnose symptoms they have, which could be just the common cold. Instead of going to their general practitioner, Australian's would have the ability to answer questions to determine if they actually need to go to their general practitioner.

CSIRO researchers stated that by helping the ill monitor and manage their conditions at home instead of going to their general practitioner or hospital they could 'save the health budget up to \$3 billion a year'. Another article published by Roy Morgan states that '11.3% of Australians (14+) looked up health or medical information online', suggesting that many Australian's already prefer looking online for medical advice. Therefore, having a reliable system which would be built with the input of professional doctors' people would be able to get reliable information, unlike many other websites where people can simply enter what they believe, without any medical information to back their claims.

### References

- World Health Organization 2020, Health Impact Assessment (HIA) The determinants of health, viewed 28<sup>th</sup> April 2020, <a href="https://www.who.int/hia/evidence/doh/en/">https://www.who.int/hia/evidence/doh/en/</a>>.
- Australian Medicine 2019, Telehealth could deliver massive savings: CSIRO, viewed 28<sup>th</sup> April 2020, < <a href="https://ama.com.au/ausmed/telehealth-could-deliver-massive-savings-csiro">https://ama.com.au/ausmed/telehealth-could-deliver-massive-savings-csiro</a>>.
- Roy Morgan, More patients using internet to self-diagnose or get a second opinion, viewed 28<sup>th</sup> April 2020, < <a href="http://www.roymorgan.com/findings/6632-going-to-the-doctor-and-online-for-health-and-medical-research-september-2015-201601180355">http://www.roymorgan.com/findings/6632-going-to-the-doctor-and-online-for-health-and-medical-research-september-2015-201601180355</a>>.

**GROUP REFLECTION** 

**EACH MEMBER CONTRIBUTE 200 WORDS** 

### Michael:

- What went well?
- What could be improved?
- At least one thing that was surprising
- At least one thing that you have learned about groups
- How well did the audit trail on the Git repository reflect on your group's work?

### Joshua:

- What went well?
- What could be improved?
- At least one thing that was surprising
- At least one thing that you have learned about groups
- How well did the audit trail on the Git repository reflect on your group's work?

### Chathura:

- What went well?
- What could be improved?
- At least one thing that was surprising
- At least one thing that you have learned about groups
- How well did the audit trail on the Git repository reflect on your group's work?

### Kavishka:

- What went well?
- What could be improved?
- At least one thing that was surprising
- At least one thing that you have learned about groups
- How well did the audit trail on the Git repository reflect on your group's work?

### **HISTORY OF MEETINGS**

### • Meeting 1:

o Date: 06/04/2020

o Agenda: allocate tasks and start assignment

Link: <a href="https://web.microsoftstream.com/video/8835edaf-8cff-4317-8d5e-d6e4522efe29">https://web.microsoftstream.com/video/8835edaf-8cff-4317-8d5e-d6e4522efe29</a>

o Actions: continue working on assignment

### Meeting 2:

o Date: 20/04/2020

o Agenda: discuss individual progress on assignment

o Link: <a href="https://web.microsoftstream.com/video/504355dd-246b-45c8-aaaa-a5031753634f">https://web.microsoftstream.com/video/504355dd-246b-45c8-aaaa-a5031753634f</a>

o Actions: continue working on assignment

### Meeting 3:

o Date: 27/04/2020

o Agenda: discuss progress on assignment, discuss project idea

Link: <a href="https://web.microsoftstream.com/video/34daa417-515d-47ef-9490-86797ee727a2">https://web.microsoftstream.com/video/34daa417-515d-47ef-9490-86797ee727a2</a>

 Actions: AWS bucket needs to be created. Git Repository needs to be created. We should aim to finish the main content by Friday

### Meeting 4:

- o Date
- o Agenda
- o Link
- Actions

### Meeting 5:

- o Date
- Agenda
- o Link
- Actions