

Semester I 2020/2021

Subject: Technology and Information Systems (SECP1513)

Section 11

Task: Design Thinking

Due : 17/11/2020 (Report & Video)

Group member

HASHED MOQBEL ALNAEEM (A19EC4037)

AMINE IMAZZI (A19EC4046)

ALBARA HNSHAL (A19EC4040)

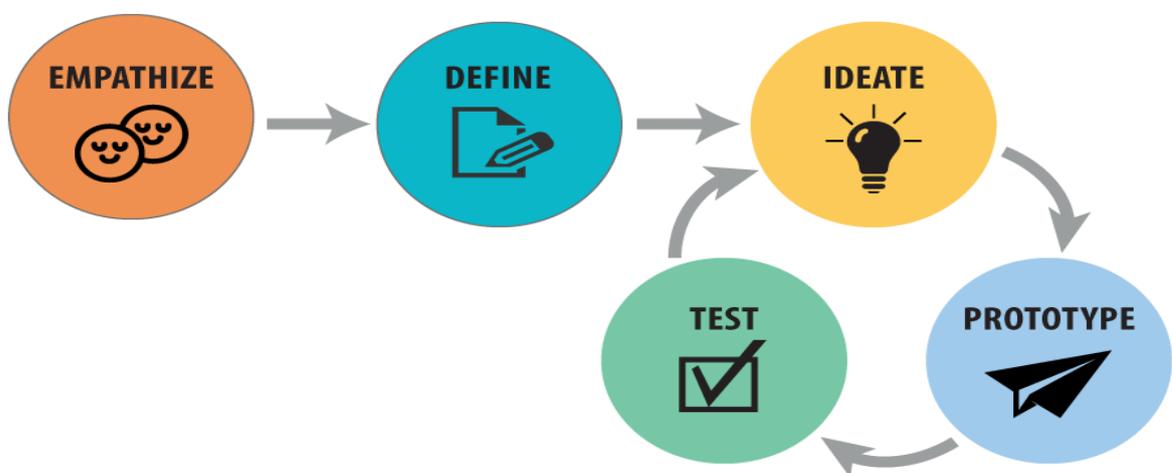
INTRODUCTION

Design thinking sketch on rationale, creative ability, instinct and systemic reasoning to investigate the conceivable outcomes of what can be, and to make wanted results that advantage the people.

in our design thinking process, we did not put our attention problem-focused, rather than we focused on solutions and activity situated which incorporates both prototype and inventive capacity. Design thinking is connected to a progressed future and looks for to construct thoughts up—unlike critical considering, which breaks them down.

Design thinking be composed of 5 main strides, and they are empathizing, define, ideate, prototype, and testing

In this piece of work (project) we had to require the total involvement which was very entertaining the 5 main steps are shown in the figure



Our theme is talking approximately privacy security and ethics the start-up of an our scaled down project is comparative to the start-up of a modern association. The work of design thinking develops

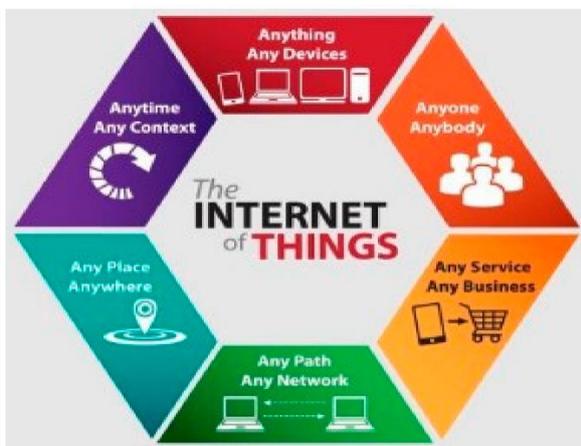
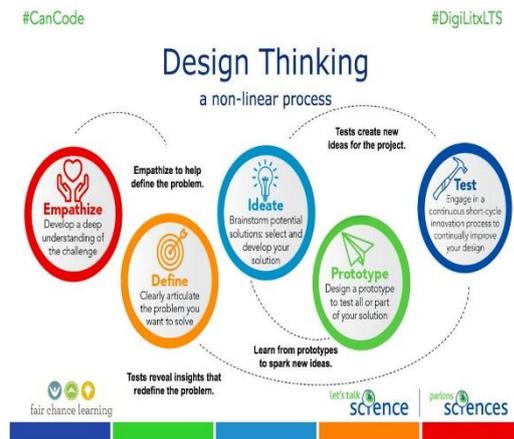
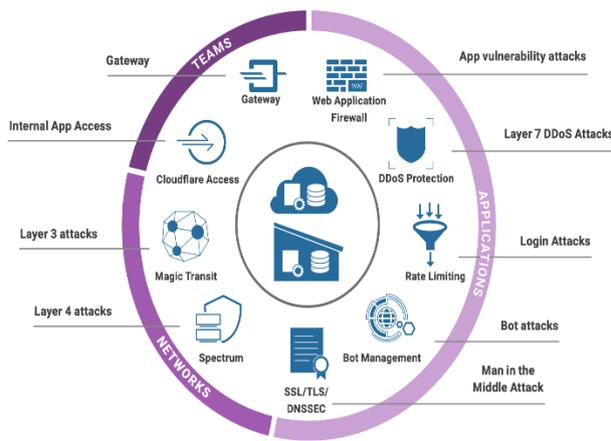
the report framework utilized to design and execute the prototype which is the model of our project.

My group created arrangement among the major 5 steps — the LockDowners who have an intrigued to gotten to be more knowledgeable and much more shrewd — on the project amid the early stages or definition phases of the project.

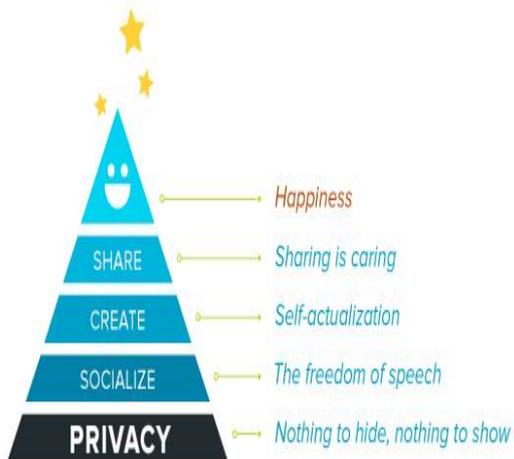
To begin with we had to do a few investigate to induce to know more approximately privacy , security and ethics , so everybody of us did his possess inquire about from distinctive sources, whether via online google ,made interview with get to ask each other’s, articles, or YouTube recordings.

At that point we combined everyone is rundown and came up with a presentation.

In the midst of our get together through online zoom and discord we start-up, the assignment and each of us refines the scope of his possess work and creates a preparatory arrange of design thinking



THE IMPORTANCE OF PRIVACY



Privacy and Data Security

Privacy	Data Security
Improper disclosure of data	Inadequate technical controls
Curiosity	Failure to keep anti-virus protection updated
Lack of awareness of privacy risks or importance of privacy	Failure to provide encryption
Lack of administrative controls about data	
Misunderstanding about rules regarding when and with whom data may be shared	

INTRODUCTION TO PRIVACY AND SECURITY IS

Security and Privacy, they are two words that we all can concur are crucially imperative and a fundamentally portion of any effective society.

That produces it sound like we are progressing to plunge profoundly into logic, legislative issues, and culture – but we are not intentionally going there.

When we have talked around privacy among our group, we've got opinions that we're being "paranoid"

This is not the gathering for that kind of feedback. To assist set the organize for this talk, let us char

Within democratic social orders, privacy, security, and responsibility are frequently seen as critical values that must be balanced appropriately.

On the off chance that we acknowledge or allow much privacy as well, the result may be as well little responsibility and security.

On the other hand, when security is minimized, individuals may be constrained and denied the space to develop, experiment, and lock in in hones not by and large acknowledged by the majority.

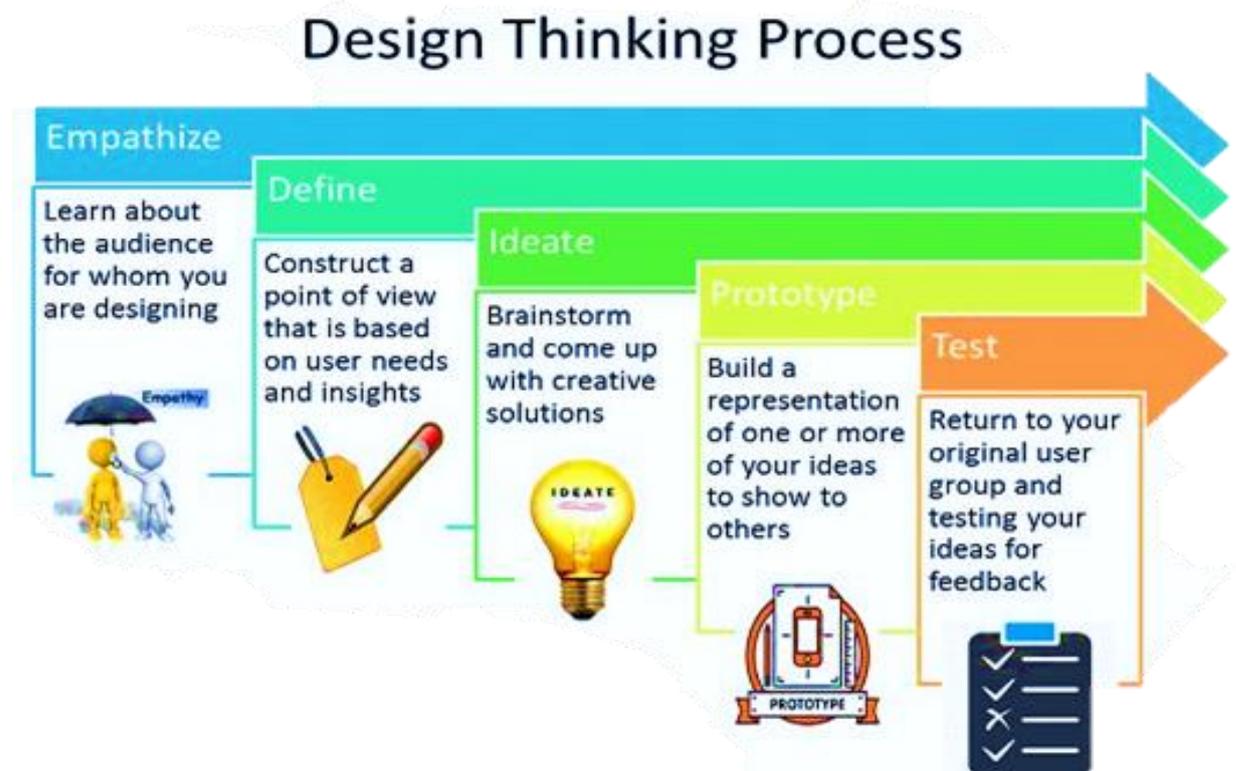
In our progressively organized and algorithmically analysed society, modern specialized capabilities are constraining a proceeding reevaluation of already acknowledged standards overseeing security and its pressure with other values, counting responsibility and security.

Prescient analytics will before long be able to decide with a tall degree of likelihood where you may be following week and what you may be doing.

Facial-recognition innovation, heat-sensing cameras, license-plate peruses, and information mining will before long empower police to lock in what has been called "virtual frisking"

Security is approximately the shielding of information, though privacy is approximately the defending of client character.

The particular contrasts, in any case, are more complex, and there can certainly be regions of cover between privacy and security.



Empathize

Empathize was our first step through design thinking because it is our ability that permits us to get to understand and share the same sentiments that others know

We start with Empathize as the importance of our project

Through empathize, we are ready to put ourselves in other people's minds and thinking we will know thy way that others think and we become more knowledge and interface with how they may well be feeling approximately their issues, circumstance, or situation

First step we are required to interview, associate, and submerge our UTM lecturers to discover their knowledge.

Due to this crisis of covid-19 this step was very challenging, we had to conduct an online interview rather than interview face-to-face which made it harder to empathize but overall, we made it.

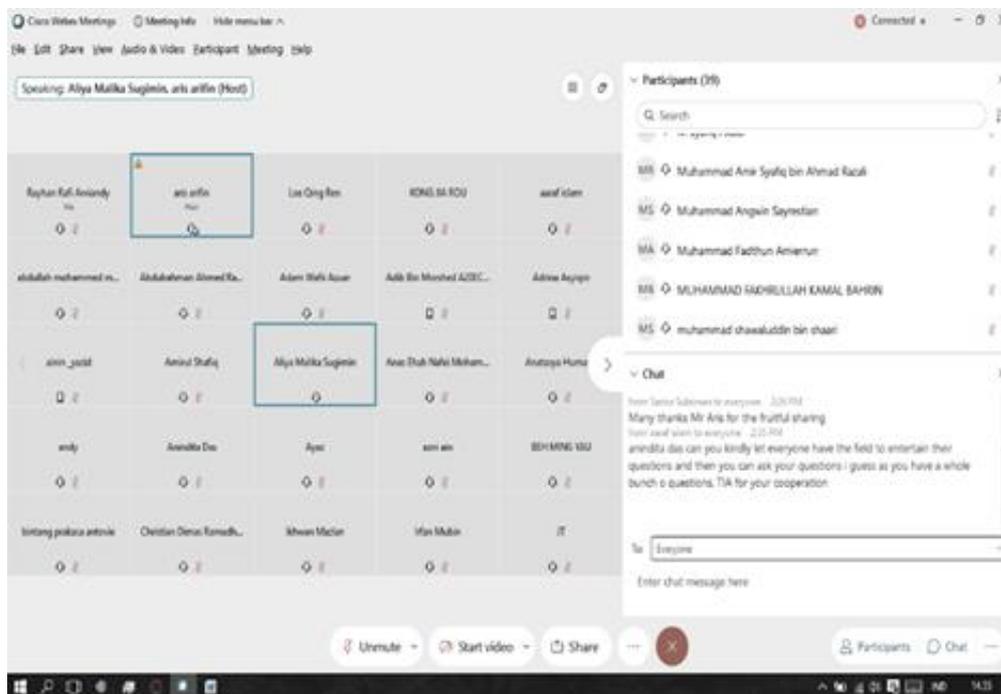
Before interview we worked on moving forward planning questions that made from group member for interviewee.

We made the questions particular to the issues frequently confronted with auxiliary capacity.

We had a parcel of interviewees to choose that has been provided via our dear Dr. JOH but we chose Mr Mohd Farid & PM Dr Murtadha -which both are working in Software Applications a master that have been working for a long period of time as a software and cybersecurity in UTM.



The interview was very demanding and difficult because we had to do the interview with other bunches and we was nearly 150 from other sections and us doing the interview at same time which make it troublesome for us to inquire all the questions as well as the time was brief as we made it at night begun at 9 PM , but by and large it was very great and we were able to inquire few of our critical questions, and underneath is a few of sample questions that we have inquired: Introduction, Common issues in security Here PM Dr Murtadha & Mr Mohd Farid- Software Application Begun by expressing a few of the common issues he confronted which was that the security is continuously advancing at an awfully imperative thing. \ when it comes to security and privacy in UTM was huge issue.



So, we got to ask some questions

1. In a world where information is universally accessible to everyone. How do we control our online privacy?

Mr Mohd Farid answred this question by saying that we should Constrain the individual information you share on social media.

as he also add that the good way to assist ensure and protects our privacy is by browse in private mode.

2. If my company wants to share confidential data with another company how can we ensure they don't share it with our competitors?

Mr Mohd Farid said that we have to know and deal with company that we are do business with We must be careful with who we are sharing our files and bult the trust among us

3. How do I tell if someone has accessed a database and looked at some private data?

I kind liked this question which asked by ALBARA HNSHAL and Mr Mohd Farid replayed by seeing the only one can see that is the one you allow him/her to access your file and how do you share with

4. What are the main weaknesses in information security and how can we improve it?

In computer security, a powerlessness may be a shortcoming which can be abused by a risk on-screen character, such as an aggressor, to cross benefit boundaries (i.e. perform unauthorized activities) inside a computer framework

And Bolster cyber security.

Cyber security frequently cites a need of hierarchical bolster as our greatest concern.

Conduct yearly mindfulness preparing.

Organize chance appraisals.

5. What are the protection measurements that the security team consider?

That was an interesting question that Amine one of my team member asked and to see the answer Refer to the interview video it has been well explained

6. what are the previous attacks that the university has faced or managed to defeat? ?

That was more of a general question. Mr Mohd Farid said that you need to be willing to learn how to protect our things all the time, and brought the issue that the technology of security and privacy is always evolving at a very fast pace so sometimes it's hard to follow.

7. how you manage to keep up to date with the latest security technologies and privacy related concerns?

Refer to the interview video to see the answer

8. How can I ensure only authorised people can log into my application?

Refer to the interview video to see the answer

As well there is a lot of questions that we have parped to ask in the interview but we could not find a time to ask and we was like in battle who is the lucky to get chance to ask as I mentioned in the report we were almost 150

Define

I can say that was the most challenging part of the design thinking which is also an indispensably portion of our Design Thinking project which we defined by significant and noteworthy issues and problems explanation.

That was maybe the foremost hard portion of our Design Thinking project, as we have to define some problems moreover it called design thinking challenge because it required us to synthesize our perceptions almost our people from the 1st organize within the design thinking handled from Empathize step.

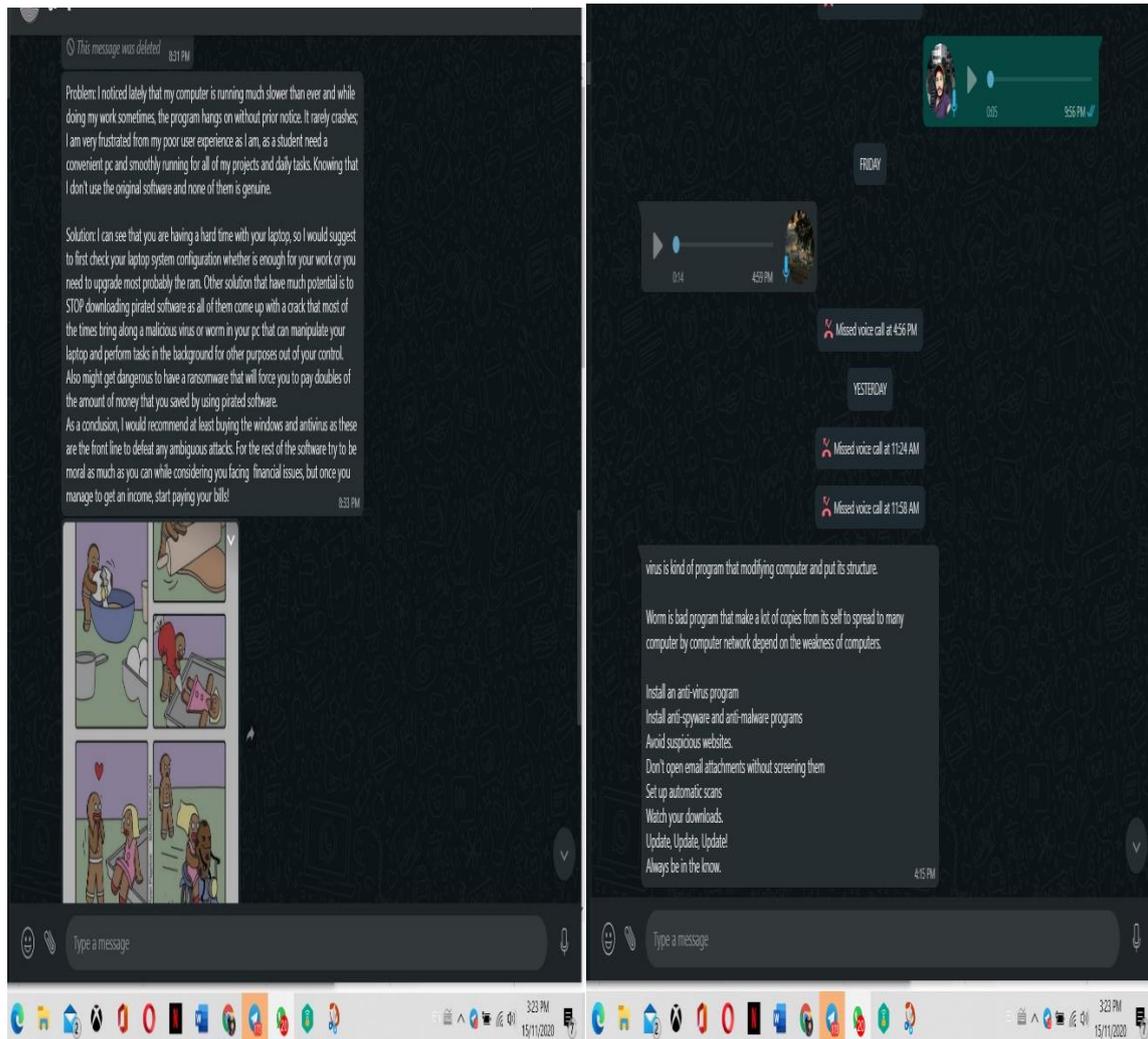
Here some example of our chat to define the problem



Perceptions about responding to vulnerabilities and threats



Strongly agree and agree responses combined



the above Photographs are scanned via WhatsApp while we chatting and planning to gather whereas attempting to characterize the problems.

Ideate

I will not forget this part or the project which make us think all the night so let me first tell you what it is

Within our Ideation arrange, our thought spark off — within the frame of questions and arrangements — through our imaginative and inquisitive solutions. we have made a few of the finest Ideas for our project which take us ages to complete so after we got the understanding we tried to create some solutions to encourage our fruitful Ideation sessions and empower dynamic interest among my team members

Problem1

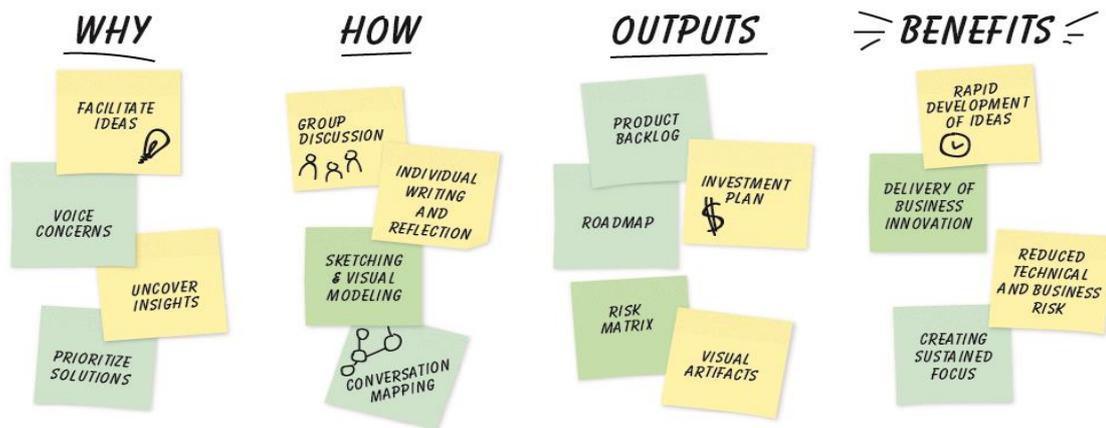
As I noticed lately that my computer is running much slower than ever and while doing my work sometimes, the program hangs on without prior notice. It rarely crashes; I am very frustrated from my poor user experience as I am, as a student need a convenient pc and smoothly running for all my projects and daily tasks. Knowing that I do not use the original software and none of them is genuine.

Solution: I can see that you are having a hard time with your laptop, so I would suggest first check your laptop system configuration whether is enough for your work or you need to upgrade most probably the ram. Other solution that have much potential is to STOP downloading pirated software as all of them come up with a crack that most of the times bring along a malicious virus or worm in your pc that can manipulate your laptop and perform tasks in the background for other purposes out of your control. Also, might get dangerous to have a ransomware that will force you to pay doubles of the amount of money that you saved by using pirated software. As a conclusion, I would recommend at least buying the windows and antivirus as these are the front line to defeat any ambiguous attacks. For the rest of the software try to be moral as much as you can while considering you facing financial issues, but once you manage to get an income, start

paying

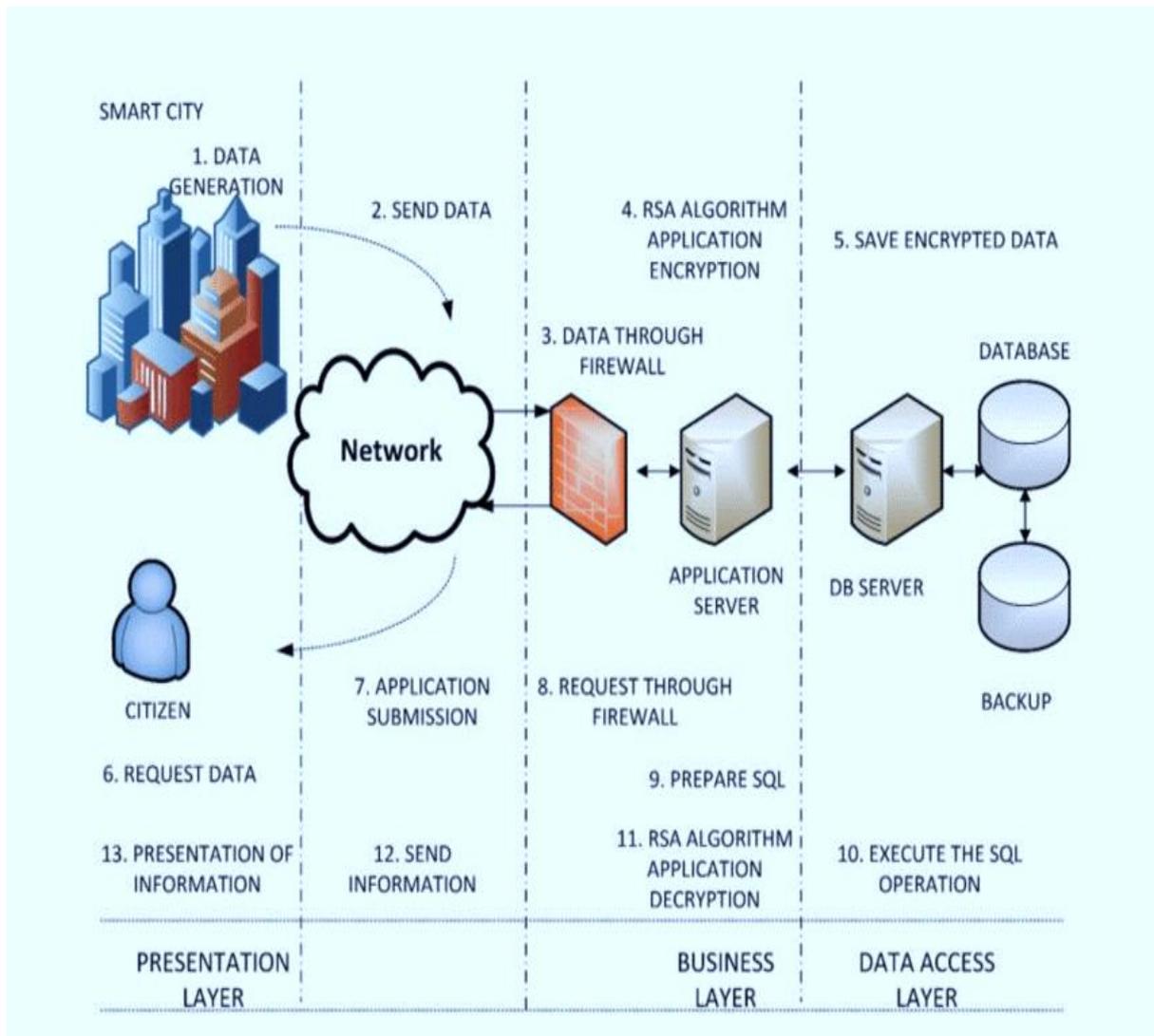
your

bills!

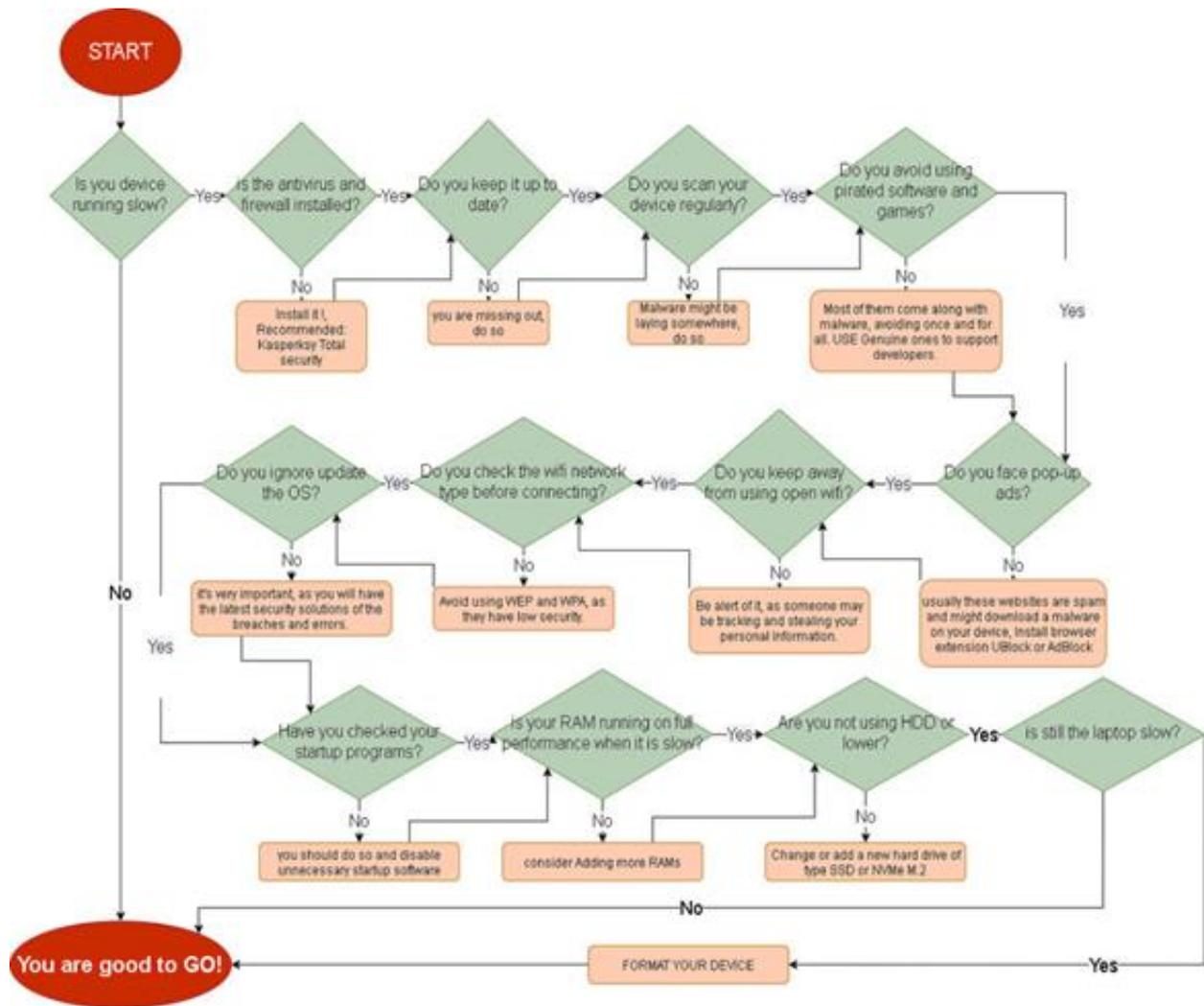


we have discussed that on online meeting via Discord and it was kind of hard work but at the end we have made it and end up with a good solution to the problems that everyone has to face nowadays

Prototype



creating a model or what is called a prototype in design thinking was a confounding and befuddling errand since we were developing a modern application program, we were fair giving tips based on the investigate that we did, and including unused highlights in an as of now existing innovation, so there wasn't much inventiveness within the model but we still oversee to do one. the figure above it provides us the prototype that we are going to made in the near future if we have been able to meet vis a vis perhaps after this crisis end. It was to analyze the data (information) of databases, encryption calculations, summary and information privacy & security that are the most components of a smart city. The issue is the need of security of public or mystery information that has put away in a store, where there is get to the citizen, neighborhood government and central government. The objective is to characterize a security



Testing

At long last we were prepared for our last step which was testing, tragically as I said communication was a bit difficult since we are completely living apart from each other's, as well Mr Mohd Farid isn't continuously free, but we are oversee to send him an mail and we did emailed him after we came up with our thoughts and ideas, tragically we couldn't get a replay. So, we did attempt to contact other people who are more knowledge in this field such as some understudies in UTM and see what they think around our arrangements.

We really wanted to do testing which can be attempted all through the design thinking we go through of the process for our project , in spite of the fact that it is most commonly attempted concurrently with the Prototyping step. our testing in design thinking, includes creating criticism as related to the models we have got and created, as well as we wanted to pick up a more profound understanding of our prototype When we embraced accurately, the Testing organize of the projet can frequently nourish into most stages of the Design Thinking handle that make us able to Understand and pick up distant much better, higher; stronger; an improved a much better understanding of our prototype ;that leads us to insights that alter the way we Characterize our issue articulation; sometimes it may produce unused thoughts within the Ideation arrange; and at last, it might lead to an cycle of your Prototype. Testing can be attempted all through the advance of a Plan Considering extend,

