

Designing an Infographic using Canva

1.Introduction

1.1 overview

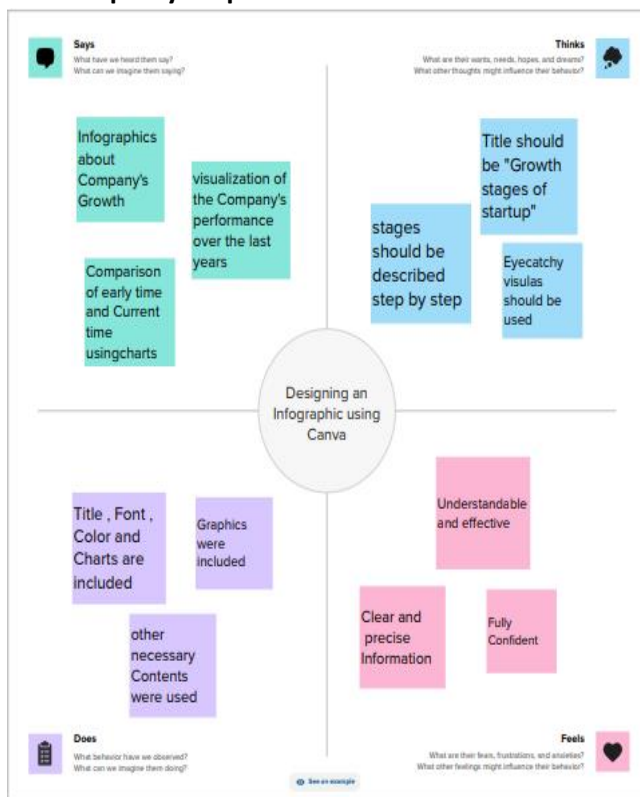
Cybersecurity involves preventing, detecting, and responding to cyberattacks that can have wide ranging effects on the individual, organizations, the community, and at the national level. Cyberattacks are malicious attempts to access or damage a computer system.

1.2 Purpose

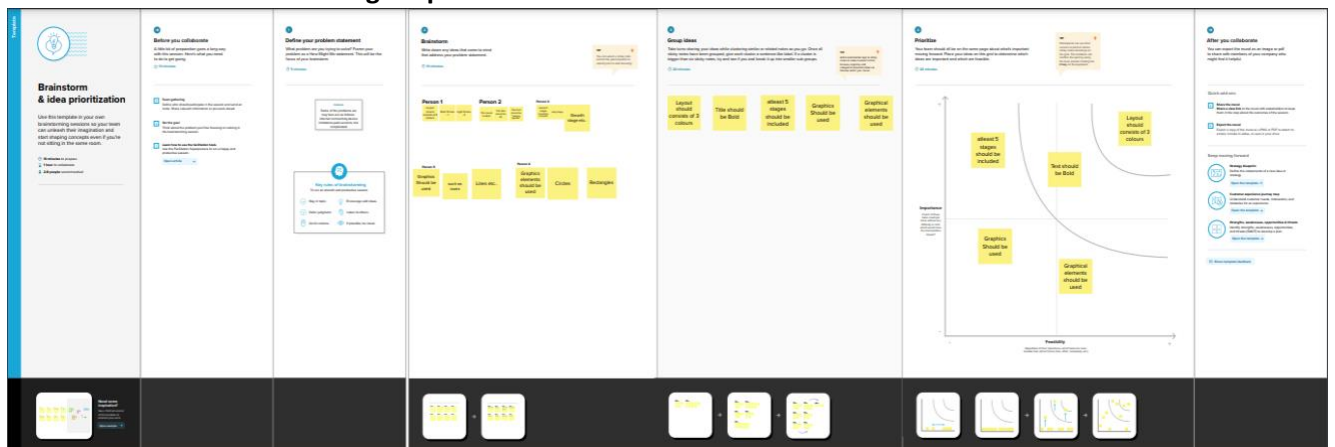
To spread Awareness about Online security / Secure Internet Connection so that people can Prevent themselves from any malicious attacks on their Privacy

2.Probelm Definition and Design Thinking

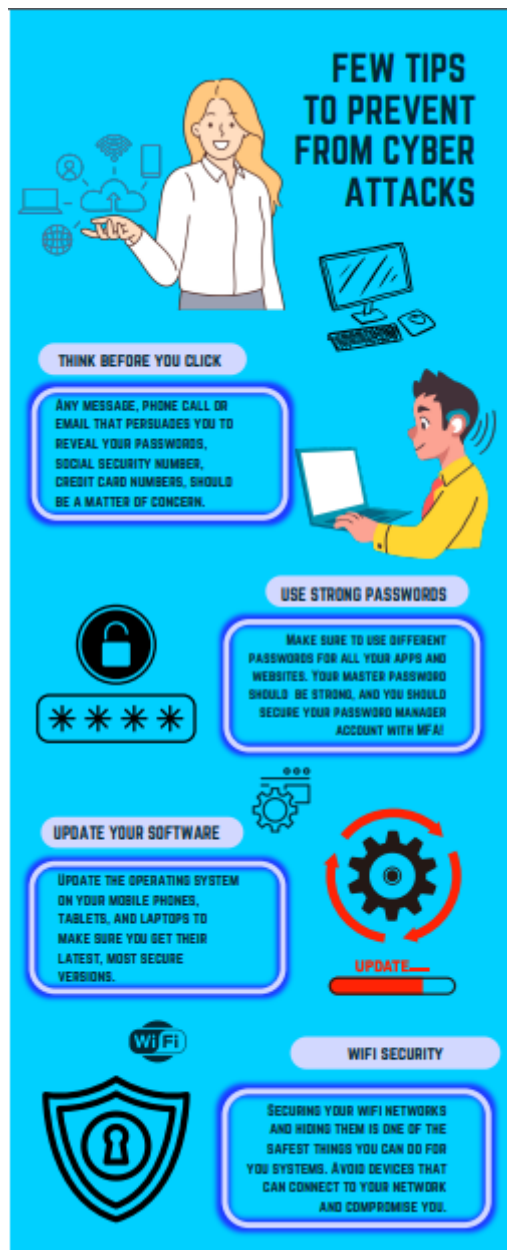
2.1 Empathy Map



2.2 Ideation & Brainstorming Map



3.Result



4.Advantages & Disadvantages

4.1 Advantages

1. Protection of Sensitive Data
2. Business Continuity
3. Compliance with Regulations
4. Enhanced Customer Trust
5. Competitive Benefit

6. Early Detection and Response
7. Intellectual Property Protection
8. Reputation Protection
9. Enhanced Collaboration
10. Remote Work Security

4.2 Disadvantages

1. High Cost of Implementation
2. Complex Management
3. Potential False Sense of Security
4. Compatibility Issues
5. Inconvenience to Users
6. Evolving Threat Landscape
7. Human Error
8. Limited Effectiveness Against Insider Threats
9. Difficulties in Measuring ROI
10. Balancing Security and Usability

5.Application

Government and Defense: Governments use cybersecurity to protect sensitive information, national security, and critical infrastructure from cyberattacks.

Financial Services: Banks, insurance companies, and other financial institutions rely on cybersecurity to safeguard customer financial data and prevent fraud.

Healthcare: The healthcare industry uses cybersecurity to protect electronic health records (EHRs), patient data, and medical devices from breaches.

Energy and Utilities: This sector relies on cybersecurity to secure power grids, oil and gas infrastructure, and other critical energy systems.

Telecommunications: Cybersecurity is essential for securing communication networks, including voice, data, and messaging services.

Technology and Software Development: Companies that create and distribute software and technology products need cybersecurity to protect their intellectual property and customer data.

Education: Educational institutions protect student records, research data, and other sensitive information with cybersecurity measures.

6.Conclusion

Cyber security is crucial in today's digital world to protect valuable information and infrastructure. Despite its challenges, organizations must prioritize it to minimize risks and safeguard assets. By integrating essential principles, they can navigate the digital landscape and mitigate potential threats which is why it is important to understand the advantages and disadvantages of cyber security.

7.Future Scope

The future scope of cybersecurity is intertwined with the growth and evolution of technology. As long as digital systems and data exist, there will be a need for cybersecurity to protect them.

Some of them are as follows,

Secure Development Practices, Artificial Intelligence in Cybersecurity & Ethical Hacking and Red Teaming