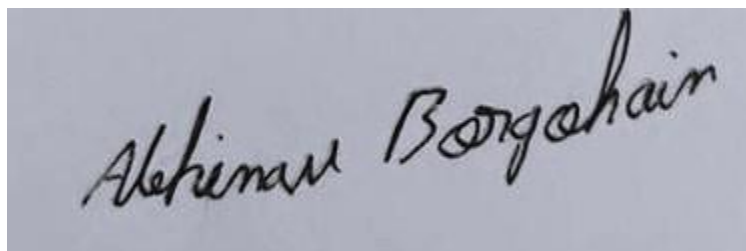


CCT College Dublin

Assessment Cover Page

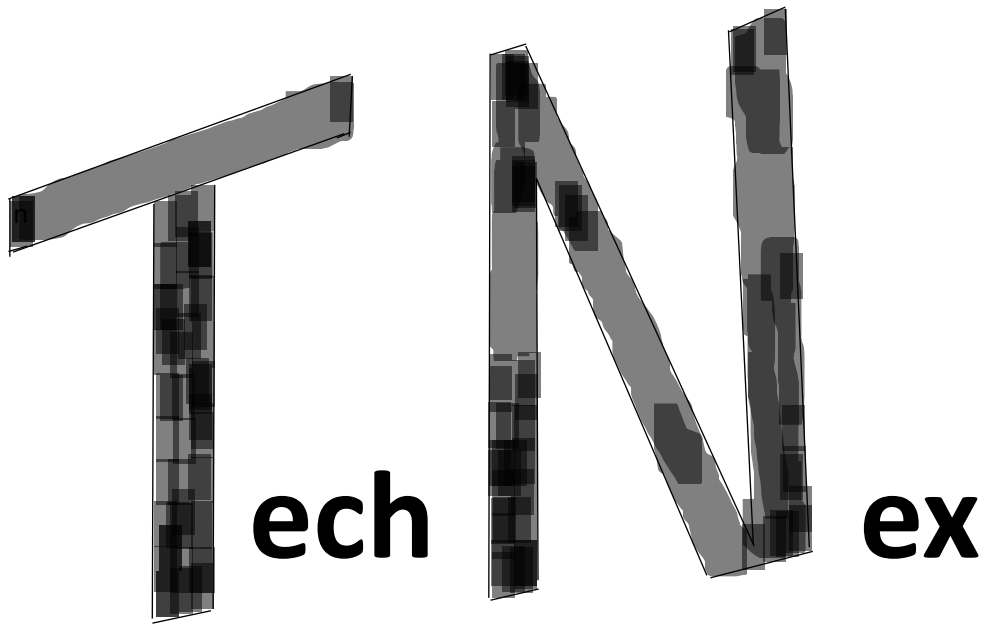
| | |
|-----------------------------|---|
| Module Title: | Time & Task Management |
| Assessment Title: | CA 2 (Group Project) |
| Lecturer Name: | James Garza |
| Students Full Name: | 1. Abhinav Borgohain 2. Umar Ali 3. Alan Jefferson Campos Olivera |
| Student Numbers: | 1. 2023287 2. 2023329 |
| Assessment Due Date: | 22/10/2023 |
| Date of Submission: | 22/10/2023 |

Signature –

A handwritten signature in black ink on a light blue background. The signature reads "Abhinav Borgohain" in a cursive, slightly slanted script.

Declaration

By submitting this assessment, I confirm that I have read the CCT policy on Academic Misconduct and understand the implications of submitting work that is not my own or does not appropriately reference material taken from a third party or other source. I declare it to be my own work and that all material from third parties has been appropriately referenced. I further confirm that this work has not previously been submitted for assessment by myself or someone else in CCT College Dublin or any other higher education institution.



TechNex Solutions Pvt Ltd

“Securing Your Digital Frontier”

INTRODUCTION –

A brief description of the business: TechNex Solutions is a provider of superior antivirus services, anti-theft technology, and protection systems. Our mission is to protect both individual users and business clients from the most advanced online threats.

Culture: TechNex supports a culture of ethics, alertness, and creativity. The company places a high value on persistent research, agile problem-solving, and a no-givens approach to digital security.

Structure:

CEO/Manager: [Abhinav Borgohain]

Departments:

Research & Development (R&D) for new threats

(Abhinav Borgohain)

Antivirus Solutions

(Abhinav Borgohain)

Anti-Theft Technologies

(Umar Ali)

Cyber-Physical System (CPS) security

(Umar Ali)

Sales & Customer Support

(Alan Jefferson Campos Olivera)

Marketing & PR

(Alan Jefferson Campos Olivera)

3. Planning Process:



Project Introduction:

TechNex Solutions' "SecuredCPS Initiative" represents a significant advancement in the field of Cyber-Physical System (CPS) security. The potential misuse of these technologies presents challenges to the physical world because of how closely the digital and physical worlds are linked in today's society. Our mission takes on these flaws head-on and employs cutting-edge safety measures to safeguard CPSs from breaches, protecting both the integrity of the infrastructure and human lives.

Main Goal:

Our goal is to create a resilient barrier for cyber-physical systems across multiple industries, going beyond the standard security framework. This all-encompassing security package is made to be adaptable, accommodating a variety of systems, including automated production lines in industry as well as essential public infrastructure like utilities, transportation, and healthcare services. We contribute to a safer, reliable electronic environment by strengthening CPS security.

Milestones:

1. Extensive CPS Vulnerability Assessment:

Conduct a methodical analysis to identify and fully understand the flaws in the current cyber-physical systems used in different sectors. In order to inform the following preventative measures efforts, it is critical to understand the length and breadth of potential exploitation at this foundational phase.

2. Development of Advanced Security Protocols:

Create novel security methods that reinforce the barriers at each potential vulnerability within a CPS. This intricate procedure involves the development of hardware and software solutions to provide multi-layered security along with quick reaction times.

3. Real-World Simulation and Stress Testing:

Test our security solutions thoroughly using simulated cyber-attack scenarios to evaluate their reliability and effectiveness in the face multiple cyber-physical threats. For our systems to be strengthened so they can withstand sophisticated attacks, this tough phase is crucial.

4. Feedback Integration and System Optimization:

Analyse simulation data and feedback from users to acquire insights that can be used to enhance security measures and make them more efficient and affordable. This phase focuses on evidence-based evolution to ensure reliability in the face of unforeseen risks.

5. Market Introduction and Partnership Establishment:

Introduce the SecureCPS package and explain how important it is in the current digital age. Establish partnerships with important business and government stakeholders to establish SecuredCPS as an essential part of industrial and national cyber security strategy.

6. Ongoing System Evolution and Support:

As the environment of cyber-threats changes, make a commitment to ongoing development by offering frequent system updates, training for critical circumstances, and 24/7 support. Our commitment to protection is unwavering, reflecting the persistent nature of online threats to the safety and security of individuals and assets.

In a world where interconnected digital and physical systems are more and more important, TechNex Solutions' dedication to developing strong, cutting-edge security solutions shines through in the

SecuredCPS Initiative. Our goal is to guarantee unhindered development and the protection of property and lives by integrating safety and trust into the technology that drives our society ahead.