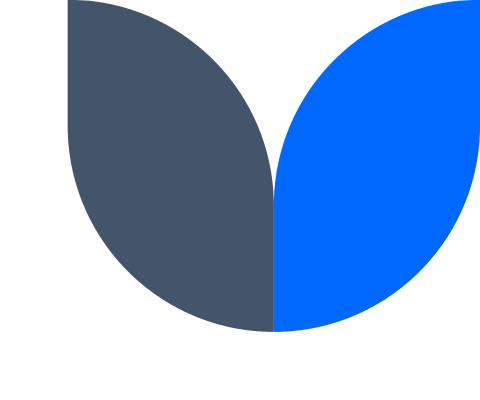
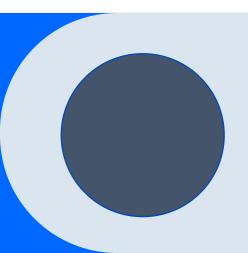
# CIS 641 System Analysis and Design

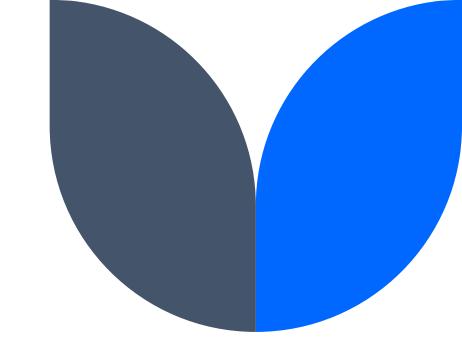
**Instructor: Erik Fredericks** 

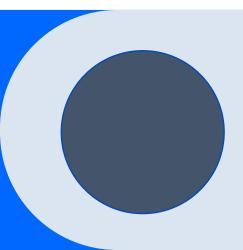




**Group members** 

Jyotshna N





#### **Table of Contents**

**High Level Overview** 

Project Timeline

Responsibilities

Mockup

#### **High Level Overview**

This project will address **cybersecurity risks** by analyzing real-world breaches caused by weak passwords, offering insights into threats and vulnerabilities. It will explore **best practices** for building resilient passwords, focusing on length, complexity, and randomness to enhance security. The project ensures **compliance** with GDPR and other data protection regulations, with a robust **algorithm** generating secure, randomized passwords. A **user-friendly interface** will be created for easy use, while **privacy-first design** ensures no password data is stored or transmitted, ensuring total security and user trust

## **Project Timeline**

ID 🔻	Task Name ▼	2024-10			2024-11				2024-12
		14	20	27	03	10	17	24	01
1	Cybersecurity Analysis								
2	Effective Password Research								
3	Compliance & Regulations								
4	Algorithm Development								
5	UI/UX Development								
6	Privacy By Design and Final Testing								
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### Responsibilities [Implementation wise]

- Collecting the details from data breaches to understand the scope of weak passwords.
- Analysis on effective passwords and their role in attack resilience.
- Collecting details about regulations [GDPR] for processing passwords.
- Algorithm development covering essential metrics and user choice based.
- Frontend development with specific goal of effective usability.
- Integration with public APIs to check generated password breach status and enablement of client side rendering to ensure privacy by design.

# Mockup



# Thank you