ADVANCED OBJECT-ORIENTED PROGRAMMING (AOOPS) PROJECT
~ Abstract
PASSWORD MANAGEMENT SYSTEM

Team Members:

1. SURYA TEJA KUDUPUDI – 2320030229 (Section-4)

2. VARUN PALERU – 2320030233 (Section-4)

3. VAJJA TEJESH VENKAT REDDY – 2320030246 (Section-4)

4. BALGURY ASHRITH RAO – 2320030442 (Section-4)

Problem Statement: Password forgetfulness can cause significant disruptions, especially during critical moments. The "**Password Manager**" project addresses this issue by providing a secure platform for storing and managing passwords. The project focuses on delivering a user-friendly interface and robust security measures, ensuring a reliable and convenient solution for users.

Project Prerequisites:

1. **Knowledge and Skills**:
   - Proficiency in Java for application development.
   - Understanding of encryption techniques and security protocols.
   - Familiarity with user interface design principles and Java Swing for GUI development.
2. **Technical Tools:**
   - Programming Language: Java.
   - Development Environment: Any Java IDE (e.g., Visual Studio Code, Eclipse).
   - Version Control: Git for project collaboration and version management.
3. **Resources:**
   - Documentation and tutorials on Java development and encryption.
   - Development environment setup and configuration guides.

EXPECTED OUTCOME: The project aims to develop a secure and user-friendly password manager with the following features:

- **Secure Password Storage:** Users can store passwords securely within the application.
- **Password Generation:** A built-in feature to generate strong and unique passwords.
- **Cross-Device Synchronization:** Utilize cloud-based storage solutions for accessing passwords from any internet-connected device.
- **User-Friendly Interface:** An intuitive interface developed with Java Swing for seamless navigation and efficient password management.