1 Crowdfunding Console Application

A Python-based console application for managing crowdfunding projects with user authentication.

1.1 Features

• User Management

- User registration with validation
- Secure login system
- Egyptian phone number validation
- Email validation
- Password hashing for security

• Project Management

- Create new projects
- View all projects
- View user-specific projects
- Edit existing projects
- Delete projects
- Search projects by date

1.2 File Structure

- app.py: Main application entry point
- auth.py: Authentication related functions
- projects.py: Project management functions
- utils.py: Utility functions and helpers
- users.json: User data storage
- projects.json: Project data storage

1.3 Installation

No external packages are required. The application uses Python's standard library.

python app.py

1.4 Usage

1. Start the application by running

python app.py

- 2. Choose from the main menu:
 - Register a new account
 - Login to existing account
 - Evit
- 3. After login, access project management features:

- Create new projects
- View all projects
- View your projects
- Edit your projects
- Delete your projects
- Search projects by date
- Logout

1.4.1 Standard Library Modules

- json: Data storage and retrieval
- datetime: Date validation and handling
- re: Regular expressions for validation
- hashlib: Password hashing (SHA-256)
- getpass: Secure password input
- os: File operations and path handling

1.5 Data Validation

- Email format validation
- Egyptian phone number validation
- Date format validation (YYYY-MM-DD)
- Project date range validation
- Project target amount validation

1.6 Data Storage

- User data is stored in JSON format
- Project data is stored in JSON format
- Passwords are stored as SHA-256 hashes

1.7 Author

This crowdfunding console application was created as a final project for ITI python web development course.