क्रियासिद्धिः सत्वे

WALCHAND COLLEGE OF ENGINEERING

1947

USER MANAGEMENT APPLICATION

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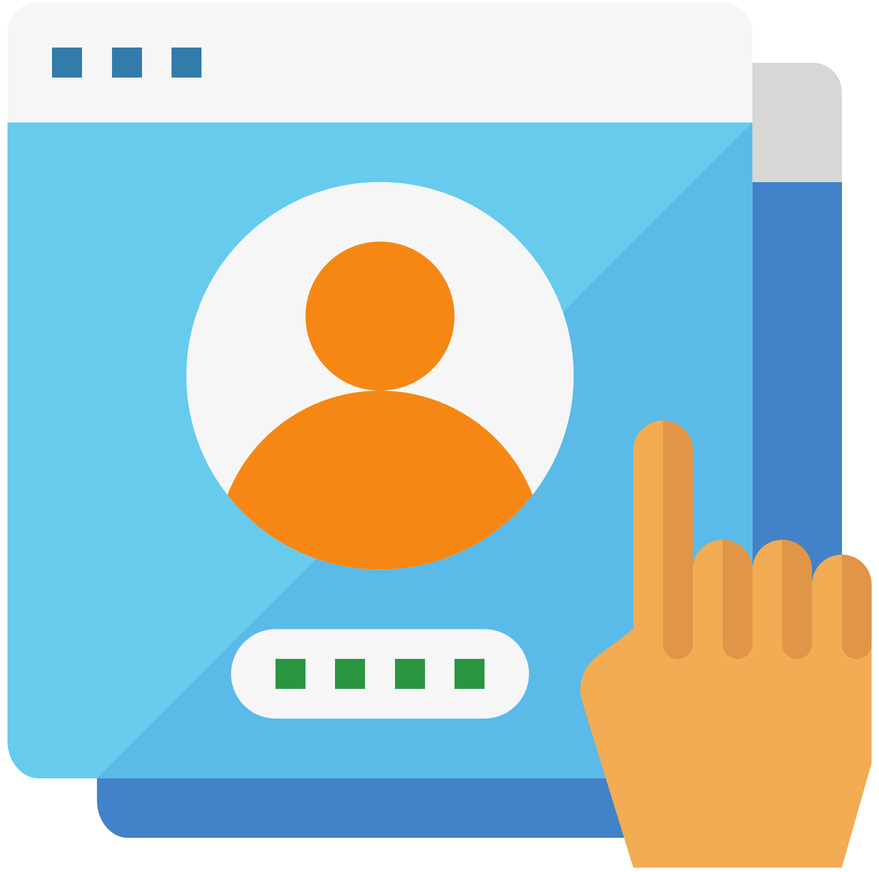
Agenda

- Introduction
- Python-based Web Frameworks
- Implementation
- Summary

Introduction

- Process of managing users and their permissions within an application
- Typically include user registration, authentication, authorization, and user account management.



Implementation

Define a user model

01 Represents the user's information

02 E.g. name, email, password, permissions, etc.

03 Model should be persistent

User Registration

01 Collects the user's information

02 Saves information to database

03 Hashing of password

User Authentication

01 Login system

02 Email and password cross-checking

03 Session or token-based authentication

User Authorization

01 User roles and permissions

02 Administrator having full access to the system

03 Regular user having limited access

Password Reset

01 Forget password

02 Password reset link to email

03 Verifying identity of user

User Management

01 Administrator managing users

02 Add, delete, update user

03 Admin panel

Python-based Web Frameworks

01 Django

02 Flask

03 Pyramid

Django

01 Built-in authentication and authorization tools

02 Authentication middleware, user models, and forms

03 Third-party packages like Django-allauth and Django-registration

django

Flask

01 Flask-Login for authentication

02 Flask-Security for authorization

03 Flask-User for user management

Pyramid

01 Pyramid-Authorization

02 Pyramid-Auth-Plugins

03 UserMixin class for user management

Summary

Python-based web frameworks provides

- Robust tools and libraries for application-level user management
- Built-in tools or third-party packages to handle user registration, authentication, authorization, and other features.

Thank You!