

Project Overview

Prysmian Induction Portal

Prysmian - IT Department

Created by Dinulescu Cosmin Ovidiu (Gemini/Claude)

Project Summary

A Streamlit-based employee induction/onboarding portal for Prysmian.

Key Features:

- Interactive step-by-step guides
- Quiz system with pass/fail tracking
- User progress tracking
- PDF completion certificates
- Admin analytics dashboard
- Azure AD SSO integration ready

Architecture

Main Entry Point:

- induction.py - Application launcher

Core Modules:

- ui_components.py - UI rendering (sidebar, pages, guides)
- data_manager.py - Data persistence and business logic
- admin.py - Admin dashboard and content management
- auth.py - Authentication module
- sso_azure.py - Azure AD SSO integration

Supporting Modules:

- pdf_export.py - Analytics PDF reports
- certificate.py - Completion certificate generator
- search.py - Content search functionality

Configuration:

- content_data.json - Content database
- assets/style.css - Custom styling

Core Functions

Data Management (data_manager.py):

- load_data() - Load content from JSON
- save_data(data) - Persist data to JSON
- get_user_id() - Get/generate user session ID
- save_user_profile(name, email, dept) - Save user profile
- get_user_profile() - Get current user profile

Progress Tracking:

- save_user_progress(category, steps) - Track completed steps
- load_user_progress(category) - Load user progress
- get_user_completion_status(user_id) - Detailed status

Analytics:

- track_page_view(category) - Track page views
- track_completion(category) - Track guide completions
- get_analytics_summary() - Dashboard metrics

Quiz System:

- get_quiz(category) - Get quiz questions
- save_quiz_result(cat, score, total, passed) - Store result

SSO Integration Points

For Azure AD SSO integration:

1. User Profile:

save_user_profile(name, email, dept)

Called automatically after SSO login

2. Session ID:

get_user_id() - Replace with SSO token ID

3. Authentication:

require_authentication() in sso_azure.py

Forces login before app access

Deployment

Requirements:

- Python 3.9+
- Streamlit 1.30+
- fpdf2 (PDF generation)
- msal (Azure SSO - optional)

Installation:

```
pip install streamlit fpdf2 msal
```

Run locally:

```
streamlit run induction.py
```