

Introduction to E-Government

Exercise: 6

Subject: OOP Process & Core Components for UMANG to Comply with SDGR

Group No. A6

Names : Sahil Ladola
Ravi Ramani
Jeel Katrodiya
Yash Nakrani

Agenda

- ❖ Overview of UMANG Project
- ❖ Show how UMANG supports the Once-Only Principle (OOP)
- ❖ Illustrate process and actors using BPMN and UML
- ❖ Align system with SDGR for cross-border public service delivery

Project Overview – UMANG (Federal level)

- UMANG (Unified Mobile Application for New-age Governance) was launched by the Ministry of Electronics and IT
- Offers access to 1,700+ services from 210+ departments on a single platform
- Targets simplification and digitization of citizen-government interaction
- Supports regional languages and rural access via mobile

Services include:

- Filing income tax returns
- Booking gas cylinders
- Paying utility bills and traffic fines
- Accessing health records and pension data



<https://web.umang.gov.in/landing/>

Once-Only Principle Implementation In UMANG

Show how UMANG supports the Once-Only Principle (OOP)

Illustrate process and actors using BPMN and UML

Align system with SDGR for cross-border public service delivery

Why SDGR Matters?

- Single Digital Gateway Regulation (SDGR) enables cross-border digital services in the EU.
- UMANG could extend OOP internationally (e.g., Indian professionals seeking jobs in the EU).

Process Flow

Actors & Data Flow:

- Job Seeker (Citizen/User) → Logs in via Aadhaar
- UMANG Platform → Requests consent & aggregates data
- DigiLocker (Data Provider)
- Skill India Platform (Certification Data Provider)
- National Career Service (Job Listing Provider)

Process Flow

Data Required:

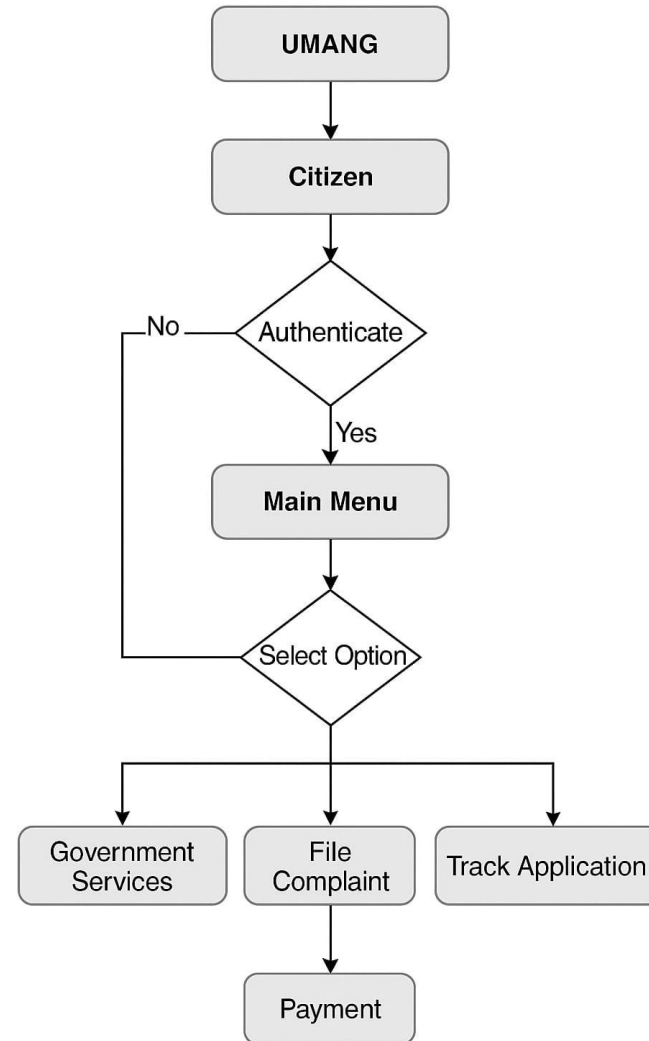
- Aadhaar number for authentication
- Degree certificates from DigiLocker
- Skill credentials from Skill India
- Work history if available

Key Steps:

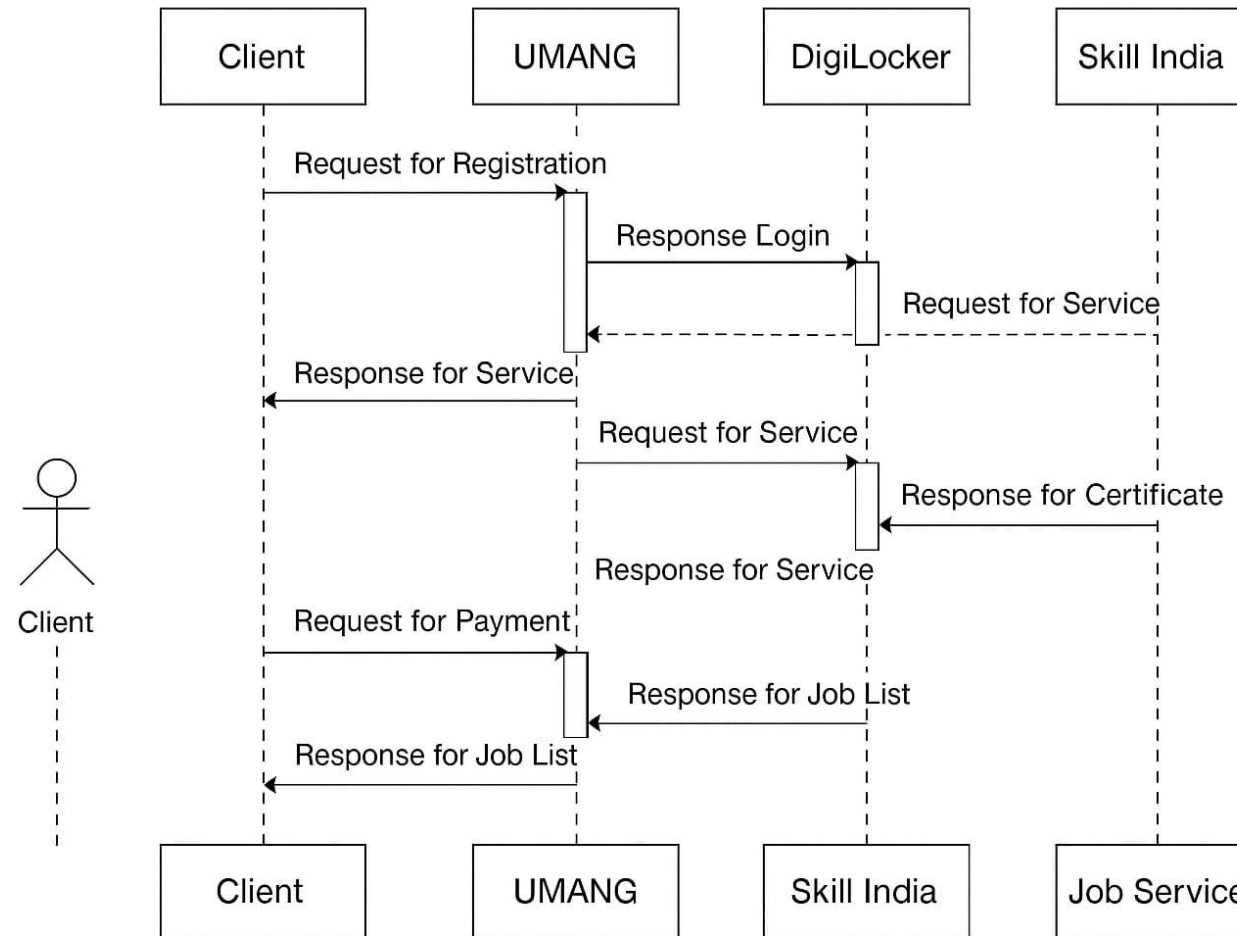
Authentication → Consent → Data Request → Aggregation → Job Application

Example: A job seeker's Skill India certifications auto-fill job applications in Germany via SDGR.

Process Flow



UML Sequence Diagram (Request/Response Flow)



SDGR Review & Key Components

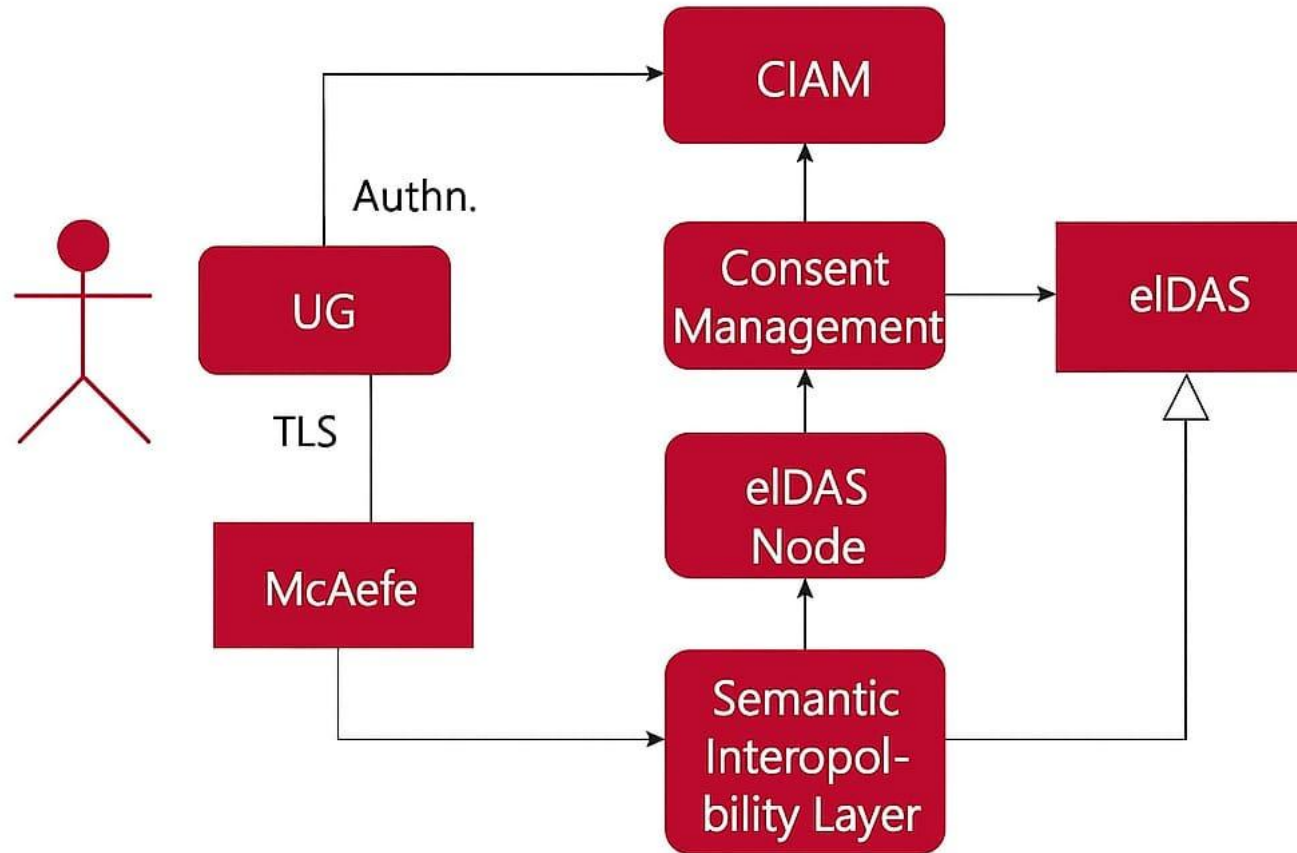
Application Components:

- Central Identity Provider (Aadhaar + eIDAS compatibility)
- UMANG Gateway with SDGR Adapter (EU-standard APIs)
- National Contact Point (India) ↔ EU Member State Contact Point
- Consent Management System (GDPR-compliant)

Technology Components:

- eIDAS Node (Secure EU authentication)
- Semantic Interoperability Layer (Converts Indian qualifications to Europass)
- Secure Data Transmission (TLS, encryption)

ArchiMate View – Components for SDGR Alignment



Conclusion & Recommendations

UMANG aligns with OOP through:

- ✓ Already reuses data across departments
- ✓ Supports real-time data exchange
- ✓ Integrates Aadhaar and DigiLocker effectively

Recommendations:

- ✓ Phase-wise SDGR Integration (Start with employment services)
- ✓ Stronger Consent Mechanisms (Granular user control over shared data)
- ✓ EU-India Digital Partnership (Joint working group on interoperability)

Reference

UMANG

<https://web.umang.gov.in/>

Skill India on UMANG - Details about the Skill India initiative accessible through the UMANG platform.

<https://web.umang.gov.in/landing/departement/skill-india.html>

National Career Service (NCS) – Directorate General of Employment

<https://dge.gov.in/dge/ncs>

EPFO Services on UMANG - Access to EPFO services such as checking PF balance, raising claims, and more via UMANG.

<https://web.umang.gov.in/landing/departement/epfo.html>

eShram Portal Integration with UMANG and NCS - Press release detailing the integration of eShram with UMANG and NCS to provide job opportunities to unorganized workers.

<https://pib.gov.in/PressReleaseDetail.aspx?PRID=1887384>

SDGR Regulation

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32018R1724>

TOOP Project:

<https://www.toop.eu/>

➤ **Thank you for your attention !!!**

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