



06 Whatsapp-Based Notification System for MOSIP

Create an accessible, efficient notification system for users of MOSIP-based ID systems around the world.

Complexity Level: Low

Overview: As one of the most widely-used messaging platforms, WhatsApp can enhance user engagement with national ID and improve the effectiveness of notifications. Develop a notification system that utilises WhatsApp to share critical updates, send alerts to users, and facilitates simple queries around MOSIP-based ID systems.

Participants are challenged to enhance the existing MOSIP notification system to include interactive, real-time WhatsApp notifications. This will involve integrating WhatsApp's messaging features with MOSIP's platform APIs.

Recommended Tech Stack:

- Tools and Technologies: Java, REST APIs, WhatsApp business account, MOSIP APIs.

Exact Task:

Mandatory Tasks:



- Non interactive WhatsApp notification delivery feature: Develop a feature to deliver non interactive WhatsApp notifications to the users which is server initiated. Example: Notifying users about the status of their enrolment, UIN generation notification etc. System should be able to trigger the non-interactive WhatsApp notification.
- Interactive WhatsApp feature: Develop a feature to enable user to interact with MOSIP platform to access services using WhatsApp. This feature is user initiated. Example: User can initiate request to check the status of the Application Id and download of UIN card and optionally other use cases. System should be able to respond with service request initiated using WhatsApp.
- WhatsApp notification support:
 1. Integrate the non-interactive WhatsApp notification support in MOSIP notification services.
 2. Integrate the interactive WhatsApp notification support for AID status check and UIN card download and optionally others.
- Webhook or related component: Webhook or related component to support processing of request from the user using WhatsApp.
- WhatsApp template details which will be used for the WhatsApp messages.
- Error handling: System should be able to respond back with error messages in case of failures.



Deliverables:

- Source code of the solution on GitHub/GitLab.
- A demonstration video showcasing the solution in action.
- PPT with the approach, results, and potential impact.
- Documentation:
 1. Detailed workflow documentation on the design and implementation approach of the tool such as Architectural Design, Data Flow Structure of the tool, Integration and installation guidance (if any)
 2. API documentation (if any)
- Test scripts/Test case/ scenarios and test data (if applicable)

Resources:

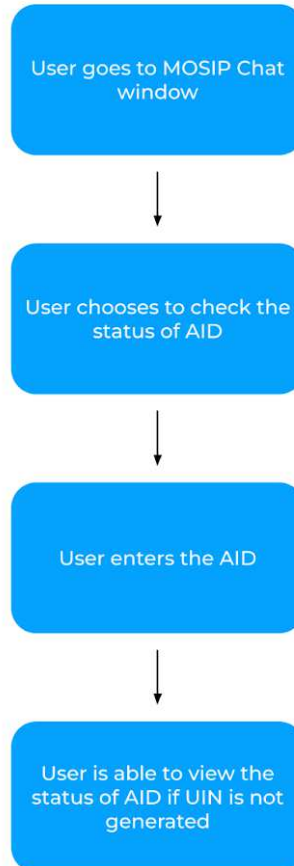
- WhatsApp integration: [Get Started - Cloud API - Documentation - Meta for Developers](#)
- Notification Service :  [commons/kernel/kernel-notification-service at master · mosip/commons](#)
- MOSIP resident API integration for interactive WhatsApp notification.
 1. API to get status of AID: [getStatus | Resident Service](#)
 2. API to send OTP: [Send OTP for an individual-id | Resident Service](#)
 3. API to download UIN card: [download-card | Resident Service](#)
- MOSIP Sandbox environment: [MOSIP collab](#)
- UIN request form: [Link](#)
- Collab user Guide link:  [Collab Environment Setup Guides | MOSIP Docs 1.2.0](#)



Getting Notifications



Getting AID Status



Downloading UIN

