Technical Design for the Registration Screen

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# **Functional Background**

On login successful, we show off “New Registration” screen. The Registration screen is of two widgets based on User language and Local language. Both of which have same set of fields with different languages. Once we captured the information on Registration UI we stuff to a DTO and hit the service, wherein we mapper maps it to Registration DTO for packet save and other operations. An alert message (say) “Data captured successfully” on successful saving of data or an error message has to be communicated back to client.

List of **Data** on Registration screen

* Demographic data
* Biometric data
* Photographic data
* Documents
* Introducer
* Exception

List of **Fields** to be taken care for the each section

* Demographic data
  + Full name
  + Date of Birth/Age
  + Local Administrative Authority
  + Mobile Number
  + Email ID
  + CNIE Number / PIN Number
  + Gender – Male / Female/ Others... (Dropdown)
  + Address – 1. Registration center address 2. Individual address
    - 3 fields – with Address Line 1,2,3 text field
    - Extra fields for the address is
      1. Address L1
      2. Address L2
      3. Address L3
      4. Region
      5. Province
      6. City
  + Parent / Child – If age is < 5 years – then Text field for Parent Name and Parent UIN has to appear.
    - Parent/Guardian Full Name
    - Parent/Guardian RID/UIN
* Biometric data
  + Left/Right thumb
  + Left/Right Palm
  + Iris - Left/Right eye
* Introducer
  + Parent
  + HOF
  + Introducer
* Documents
  + POA – Proof of address
  + POI – Proof of Identity
  + POR – Proof of reference

The **target users** are

* Individual
* Registration officer
* Registration Supervisor

The key **requirements** are

* On successful login, show the “Registration Screen”
* Build UI with , WRT the requirement
* Registration page is divided into two
  + User language
  + Local language
* Capture the data from Registration UI
* Map data into Registration DTO
* Send an Alert message (say) “Data captured successfully” or an error message.
* Registration DTO for packet save and other operations.

The key **non-functional requirements** are

* Security:
  + Should not store any sensitive information as plain text information.
  + The data which resides in the data-base should be in encrypted format.
* Network:
  + Should able to communicate to the configured URL with proper authentication.
  + The http read timeout parameter to be explicitly set, if client unable to connect to the REST service.
  + Connectivity should happen through SSL mode. The respective key to be loaded during the call.
* Authentication:
  + While connecting to the server, user authentication is required to authenticate by providing the valid credentials.
  + Invoke the Authenticate service to get the ‘JWT token’ and pass it along with the request to authenticate the request by the server.

# **Technical Approach**

The key solution considerations are –

**Service**

* Create **RegistrationService** and create DTO for the same.
  + Get the data from Registration UI
  + Map data into Registration DTO
  + Send an Alert message (say) “Data captured successfully” or an error message
* Handle exceptions in using custom Exception handler and send correct response to client.

**UI**

* Build the screen based on the UI requirement, as the fields mentioned above.
* Create the proper alert success/error to intimate the user.

**Apply the below common criteria**

* Audit
* Log
* Java Documentation
* Junit

**Classes**:

**Controller**: RegistrationController

**Service**: RegistrationService

**DTO**: RegistrationDTO / UIDTO

Class Diagram:

<https://github.com/mosip/mosip/blob/DEV/design/registration/_images/_class_diagram/registration-registrationscreen-classDiagram.png>

Sequence Diagram:

<https://github.com/mosip/mosip/blob/DEV/design/registration/_images/_sequence_diagram/registration-registrationscreen-sequenceDiagram.png>