Technical Document

on

ID Schema Wizard & Generator

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❖ **Project Overview:**

Id Schema Wizard & Generator is a standalone application which allows Country to prepare and update ID Schema and populate required dynamic fields. It follows an interactive approach asking user the question and driving him towards the solution. The application prompts for the next step after each step, showing the progress and pending steps.

The application starts with a list of stock attributes like Name, DOB, Phone, Address etc. from which user can select the attributes required for schema. Also, there is an option to add additional custom attributes.

ID Schema Wizard Generator

Choose the stock attributes you want to use for generating schema from below list. Also, you can add your own attributes by checking the below additional attributes option.

Available Attributes ❓

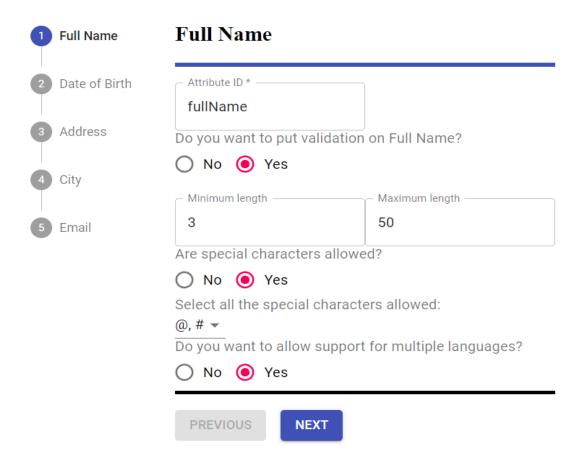| |
|---|
| Full Name |
| Date of Birth |
| Gender |
| Address |
| Region |

> <
>> <<

Selected Attributes ❓

☐ Do you want Additional Attributes ?

Click on Next button to proceed with selected attributes:

NEXT

After selecting all the required attributes, user is redirected to each of the attribute's page one by one where user can fill the details required for each attribute for schema generation. For example: in the Name attribute page, user can set the id for name attribute, can specify if the validation is required for the attribute etc.

The application also shows the progress highlighting the current attribute and showing all the pending attributes.

Once all the attributes' details are entered, user can preview the complete JSON schema generated.

❖ Technical Implementation Details:

Front End Technology: **React JS, Material UI**

The whole application is created using React Components.

- Application starts with **index.js** page which shows list of all the stock attributes available like Name, Date of Birth, Address, Biometrics, etc. that the user country can select for schema generation.

- User can also add additional custom attributes by clicking on checkbox option for additional attributes and specifying the name for custom attribute.
- After selecting all the required attributes, user is redirected to each of the attribute's page one by one where user can fill the details required for each attribute for schema generation. This is implemented by dynamically calling the components of selected attributes.
- On the left side of the page, a stepper is created which shows all the attributes selected by the user in index.js page. It shows the attributes completed, attribute currently in use and pending attributes.
- On each attribute page, there are two buttons: Next and Previous
- On clicking Next, it will go to next attribute page.
- On clicking Previous, it will go to previous attribute where we can see the details of the corresponding attribute entered earlier.
- Clicking on Next button creates the JSON object for the respective attribute.
- Once all the attributes' details are entered, on clicking next button on the last attribute page, user can preview the complete JSON schema generated.

❖ Future Scope

- All the intermediate data of the attributes can be stored in browser cache so that if one closes the browser accidentally, data is not lost.
- User Interface can be enhanced.
- Regular expressions for the validation requirements can be generated.
- Also, we can give user an option to enter the regex manually for validation.