Ration Card Lookup Service
(Under the Open API of
Department of Food Civil Supplies & Consumer Affairs, Punjab)
20-10-2016

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Revision History

Date	Description	Author	Comments
20-10-2016	V1.0	Prince Bassi	Initial Draft

Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

Signature	Printed Name	Title	Date

Introduction: Open APIs

An Open API (often referred to as a Public API) is a publicly available application programming interface that provides developers with programmatic access to a proprietary software application. APIs are sets of requirements that govern how one application can communicate and interact with another. They also allow developers to access certain internal functions of a program. In the simplest terms, an API allows one piece of software to interact with another piece of software. They allow developers, outside of an organization's workforce, to access backend data that can then be used to enhance their own applications.

Initiative by FCS Department, Punjab

Department of Food Civil Supplies & Consumer Affairs, Punjab have adopted and implemented Open APIs to enable quick and transparent integration with other applications and systems implemented by various Government/Private organizations or NGOs, thereby providing access to data & services and promoting citizen participation for the benefit of the community.

Registration Process:

The Implementing Agency/Department/Organization is required to be registered with department for the use of this Service. The Registration Form is available on the official website of the department i.e. foodsuppb.nic.in under Open API tab. Duly filed application form is required to be submitted to The Director, Department of Food, Civil Supplies & Consumer Affairs, Govt. of Punjab, Anaaj Bhawan, Sector 39-C, Chandigarh. After the approval of the competent authority, the successful applicant will be supplied the user credentials for the service.

Ration Card Lookup Service URL

Please use following Ration Card Lookup Service URL to fetch residents' data:

URL: http://epds.punjab.gov.in/ePDSWebaccess.asmx

Web services:

1. epdsRationCarddetail : To get Family details from RC id

Function: **epdsRationCarddetail**

The PDS Open API accepts XML string as input. Following is the XML data format.

Input:

Request: <root><rcid>XXXXXXX</rcid><userid>XXX</userid><password>XXXXX</password></root>

Attribute Description of Input Data Format
Following is the description of the elements the input XML string must contain:

- **rcid**: This element contains the 7 digit Ration Card ID of the resident to be searched. A minimum of 7 digits must be entered for search based on ration card id.

- **userid:** This element contains the "userid" issued to the organization for the use of the service.

- **password**: This element contains the "password" set for the said "userid" to use the service.

Response:

The web service consumes the input XML, processes it and queries the database with the input parameters. The result is returned to the client in XML string format.

Following is the XML data response format for PDS Open API.

```
<NewDataSet>
<Table>
        <Pres_RC_Number>XXXXXXX</Pres_RC_Number>
        <Name_of_Family_Member_EN>XXXX XXX </Name_of_Family_Member_EN>
        <Father_Name_EN>XXXX XXX</Father_Name_EN>
        <Gender>X</Gender>
        <Age>XX</Age>
        <RS_Name_EN>XXXX</RS_Name_EN>
        <UID>XXXX-XXXX-XXXX</UID>
</Table>
<Table>
        <Pres_RC_Number>YYYYYYY</Pres_RC_Number>
        <Name_of_Family_Member_EN>YYYY YYY </Name_of_Family_Member_EN>
        <Father_Name_EN>YYYY YYY</Father_Name_EN>
        <Gender>Y</Gender>
        <Age>YY</Age>
```

```
          <RS_Name_EN>YYYY</RS_Name_EN>
          <UID>YYYY-YYYY-YYYY</UID>
  </Table>
  <Table>
          <Pres_RC_Number>ZZZZZZZ</Pres_RC_Number>
          <Name_of_Family_Member_EN>ZZZZ ZZZ </Name_of_Family_Member_EN>
          <Father_Name_EN>ZZZZ ZZZ</Father_Name_EN>
          <Gender>Z</Gender>
          <Age>ZZ</Age>
          <RS_Name_EN>ZZZZ</RS_Name_EN>
          <UID>ZZZZ-ZZZZ-ZZZZ</UID>
  </Table>
```

Attribute Description of Response Format

- **Pres_RC_Number**
  This attribute contains the Ration Card number.

- **Name_of_Family_Member_EN**
  This attribute contains the names of the Family members of the beneficiary.

- **Father_Name_EN**
  This attribute contains the Father Name of the family member.

- **Gender**
  This attribute contains the gender i.e. 'M' or 'F' of the beneficiary.

- **Age**
  This attribute contains the age of the beneficiary.

- **RS_Name_EN**
  This attribute contains the relationship of the member with Head of the family.

- **UID**
  This attribute contains the 12 digit UID number of the family member.

2. epdsuiddetail: To get Ration Card details from Aadhar or Ration Card

Function: **epdsuiddetail**

The PDS Open API accepts XML string as input. Following is the XML data format.

Input:

Request With UID
<root><Uid>XXXXXXXXXXXX</Uid><search>Aadhaar</search><userid>XXX</userid><password>XXXXX</password></root>

With Ration Card
<root><Uid>XXXXXXX</Uid><search>RationCard</search><userid>XXX</userid><password>XXXXX</password></root>

Attribute Description of Input Data Format
Following is the description of the elements the input XML string must contain:

- **Uid(tag)**: Uid tag contains numeric value and behave according to the length of the Input.

    o **Using Aadhaar as Uid value**: In this case the length of the tag is 12 digits. The search will be done on the basis of aadhaar number stored in the database and will return the response on the basis of that.
    o **Using RC id as Uid value**: The length of the data inside UID tag is 7 digits and search will be based on the ration card number stored in the database.
    o Else it not the valid value for the Uid tag.

- **userid:** This element contains the "userid" issued to the organization for the use of the service.

- **password**: This element contains the "password" set for the said "userid" to use the service.

Response:

The web service consumes the input XML, processes it and queries the database with the input parameters. The result is returned to the client in XML string format.

Following is the XML data response format for PDS Open API.

Response:

<root>
    <District>XXXXXXXXXX</District>
    <Block>XXXXX</Block>
    <Village>Xxxx (yy)</Village>

```
        <FpsCode>XXXXXXXXXXX</FpsCode>
        <FpsName>XXXXXX XXXXXX, XXXXXXXXX (yyy)</FpsName>
        <RcId>XXXXXXX</RcId>
        <MemberName>XXXXXX XXXXX</MemberName>
        <FatherName>XXX</FatherName>
        <Cardtype>XX</Cardtype>
        <RespMsg>UID Found</RespMsg>
</root>
```

Attribute Description of Response Format

- **District**
  This attribute contains the district of the beneficiary.

- **Block**
  This attribute contains the block of the beneficiary.

- **Village**
  This attribute contains the village of the beneficiary.

- **FpsCode**
  This attribute contains the code of the FPS assigned to the beneficiary.

- **FpsName**
  This attribute contains the name of the FPS assigned to the beneficiary.

- **RcId**
  This attribute contains the Ration Card ID of the beneficiary.

- **MemberName**
  This attribute contains the name of the beneficiary.

- **FatherName**
  This attribute contains the father name of the beneficiary.

- **Cardtype**
  This attribute contains the type of the ration card i.e "PH" or "AAY" of the beneficiary.

- **RespMsg**
  This attribute contains the response message.