

# Electronic form definition reference guide

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## Introduction

This guide helps OpenRIMS Supervisors design electronic forms.

The OpenRIMS “Administration-Configuration-Data Configurator” feature allows the designing of electronic form data input controls and their on-screen layout.

An electronic form collects high-cohered data and files while business and NMRA electronic collaborations.

If it will be necessary to collect many blocks of low coupling data are possible to define a sequency of electronic forms.

## Where to start?

Administrate [Authorities and Users](#) [Processes](#) [Configurations](#) [dataimport](#) [Monitoring](#) [changePassAdmin](#) [Exit](#)

Data Directory

1

Help

Search	3	4 Add	Variables
url	description		
<input type="checkbox"/> a.test			
<input type="checkbox"/> academic.certificate	Copy of relevant academic certificate(s)		
<input type="checkbox"/> academic.certificate.copy	Copy of relevant academic certificate(s)		
<input type="checkbox"/> amendment.address	Modify the address of the Pharmacy		
<input type="checkbox"/> amendment.payment.data			
<input type="checkbox"/> amendment.site	2		
<input type="checkbox"/> amendment.site.documents			
<input type="checkbox"/> amendment.solution.importer			
<input type="checkbox"/> amendment.solution.pharmacy			
<input type="checkbox"/> amendment.solution.wis			
<input type="checkbox"/> capital.modify.pattern	Modify (amend) a capital		
<input type="checkbox"/> configuration.pharmacy.employee.agreements	How to input templates for them		

Figure 1 Initial screen of the Administrate-Configurations-Data Configurator feature

1. Get this document
2. List of the existing electronic forms sorted alphabetically by Url
3. Search for the existing electronic forms
4. Add a new electronic form

## Definition of a new electronic form

Figure 2 Electronic form definition describes the form

1. Click here to unlock the field “Url”
2. Address (URL) to which the collected data and files will be submitted. To assign a URL, please use these recommendations: [ Address (URL) to which the data will be submitted]
3. Help text or description
4. Save the electronic form definition

The “additional information” is a helpful text.

## Definition of an existing electronic form

Administrate [Authorities and Users](#) [Processes](#) [Configurations](#) [dataimport](#) [Monitoring](#) [changePassAdmin](#) [Exit](#)

### Data Directory

Search		Add	Variables
	<u>url</u> ↓		<u>description</u>
<input type="checkbox"/>	<a href="#">a.test</a>		
2 <input type="checkbox"/>	<a href="#">academic.certificate</a> 1		Copy of relevant academic certificate(s)
<input type="checkbox"/>	<a href="#">academic.certificate.copy</a>		Copy of relevant academic certificate(s)
<input type="checkbox"/>	<a href="#">amendment.address</a>		Modify the address of the Pharmacy
<input type="checkbox"/>	<a href="#">amendment.payment.data</a>		
<input type="checkbox"/>	<a href="#">amendment.site</a>		
<input type="checkbox"/>	<a href="#">amendment.site.documents</a>		

Figure 3 Access existing form definition and design

1. Open the definition
2. Open the design

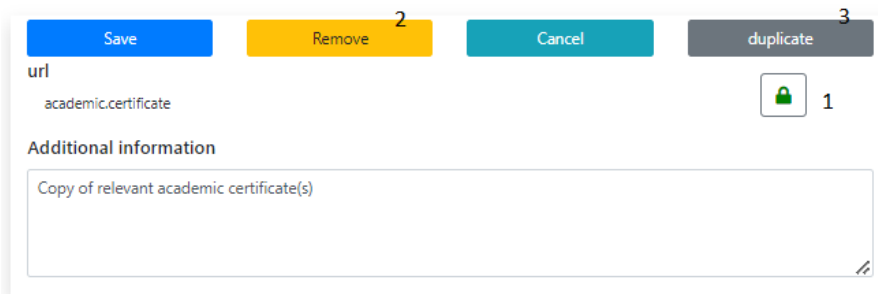


Figure 4 For existing electronic form “Remove” and “Duplicate” features are active

1. Despite it is possible to change the Url of the existing form it is an extremally dangerous operation. In most cases it will be better:
  - 1.1. Duplicate the form
  - 1.2. Remove the original
  - 1.3. Rename the duplicate
2. Remove the feature that makes the form definition inactive:
  - 2.1. This electronic form will be not available for design
  - 2.2. The form will be available for data input/display
3. The duplicate feature allows the creation exact copy of the electronic form design. Url will be renamed to original\_url.copy, e.g., academic.certificate.copy

## Design of an electronic form

### Variables

The edition of this data configuration is restricted due to external references

Search					1 Add	2 Preview	3 explore
row ↓	col ↓	Order ↓	Variables	ext	Class	Additional information	
0	0	0	register		registers	initial register number	
0	0	1	retail_pharmacy		heading		
0	0	2	prefLabel		literals	Enter name of pharmacy in English. Should include the word "Pharmacy" both in the Nepali and English name.	
0	0	3	name_nepali		strings		
0	0	4	tolename		strings		
0	0	5	wadano		numbers	1-32	
0	0	6	address	4	addresses		
0	1	5	docs_tenancy		documents		
0	1	9	photo_resize		heading	resize photo	
0	1	10	site_photos		documents		
100	100	0	classifiers		things		
100	100	1	pvt_data		things	PVT name, address and registration data	
100	100	2	person_auth	5	things	Person with Authority	
100	100	3	pharmacists		things	Pharmacists	
100	100	4	report_payment		things	Payment data	
100	100	5	cover		things		

100

Figure 5 Design of an electronic form

1. Add a new field to the form layout see details in [Form field design]
2. Preview the form, see details in [Preview and explore the electronic form]
3. Export design details to MS Excel for exploring, see details in [Preview and explore the electronic form]

### Data input fields, see details in [On-screen layout

The basic configuration layout of an electronic form is in two columns. Depending on the room on the screen a form may be represented in two or one column. In the case of the one-column representation, the second column will be placed under the first one.

The numbering of rows and columns starts from zero.

0,0	0,1
1,0	1,1

Figure 21. The two columns' layout

The height of components may be very different. Thus, placing one component in a cell (row, col) is almost unusable

Name

0,0

Address

Nepal

	Name ↓	Additional information
<input type="checkbox"/>	Bagmati Province	
<input type="checkbox"/>	Gandaki Province	
<input type="checkbox"/>	Karnali Province	1,0
<input type="checkbox"/>	Lumbini Province	
<input type="checkbox"/>	Province 1	
<input type="checkbox"/>	Province 2	
<input type="checkbox"/>	Sudurpaschim Province	

20

GIS Location (Please click here)

Additional information

0,1

Figure 22. The only cell is not enough

To avoid this, OpenRIMS provides the third coordinate – an order inside the cell. The order starts from zero and allows the place of many components in a cell.

Name 0,0,0

Additional information 0,0,1

Address 1,0,0

Nepal

	Name ↓	Additional information
<input type="checkbox"/>	Bagmati Province	
<input type="checkbox"/>	Gandaki Province	
<input type="checkbox"/>	Karnali Province	
<input type="checkbox"/>	Lumbini Province	
<input type="checkbox"/>	Province 1	
<input type="checkbox"/>	Province 2	
<input type="checkbox"/>	Sudurpaschim Province	

GIS Location (Please click here)

Figure 23. Cell and order inside a cell are acceptable

OpenRIMS layout editor allows the define and re-arrange components easily using the following rules:

- Columns number possible only 0 and 1
- Values of rows and orders allowed up to 89. Row number 100 is reserved for “things”

When the user tries to place a component in a busy position inside a cell, the rest of the components in this cell will be shifted down

- The component's configuration reference]:
  - Row, col, Order – the layout, see details in [On-screen layout ]
  - Variables and ext – the label of a data input field, see details in [The name and the name extension]
  - Class – the type of the data input component, see details under [The component's configuration reference]
  - Additional information – help text
- A sequency on other electronic forms. Parameter “row” is 100, Class is “things”

## Form field design

A form field is a data input component that allows an electronic form user:

- Input text, numbers, dates
- Select data from a set of pre-defined choices
- Download/upload a file
- Open a link to another website

The types of possible input data components are described under [The component's configuration reference] For a particular type it will be convenient to search using the Table of Contents at the top of this document

The screenshot displays a form design interface with the following elements and numbered callouts:

- Buttons:** 'Save' (blue), 'Remove' (yellow), and 'Cancel' (teal) are at the top.
- Help Icon:** A question mark icon is located to the right of the 'Cancel' button.
- 1:** A lock icon next to the 'varName' field, which contains the text 'certificate'.
- 2:** A lock icon next to the 'varNameExt' field.
- 3:** A large text area labeled 'Additional information' containing the text 'Copy of relevant academic certificate(s)'.
- 4:** The 'screenposition' section, which includes 'row' (0), 'col' (0), and 'ord' (1) input fields.
- 5:** A 'Class' dropdown menu currently set to 'documents'.
- 6:** Validation parameters: 'Minimal Offset' (0), 'Maximal Offset' (0), 'required' (No), and 'mult' (No).
- 7:** The 'Auxiliary Data' section, containing 'url' (academic.certificate) and 'dictUrl' (dictionary.academic.certificate) fields.
- 8:** Additional parameters: 'auxUrl' (empty), 'readOnly' (No), 'unique' (No), and 'Name' (No).
- 9:** A text field for 'The pattern for the field or file names'.

Figure 6 From field design electronic form

1. Click to edit the name of the component [The name and the name extension]
2. The experimental feature that allows change validation rules depends on the user's choice. The only known implementation is the "intervals" component
3. The help [The description of a component (additional data)]
4. Select a type of component, e.g., text field, or file uploader. See under [The component's configuration reference]. It will be better to use the Table of Contents at the top of the document.
5. Validation parameters. Refer to a description of the particular component.
6. Screen position [On-screen layout ]
7. Refer to the description for a particular component
8. Refer to the description for a particular component, typically:
  - 8.1. readOnly – this component should be placed in the form of a read-only mode
  - 8.2. unique – experimental feature, works only for strings and literals
  - 8.3. Name – copy some data from this component to literal "prefLabel" and, possibly to other literals.
9. Validation rules data - sizes, regular expressions (<https://regex101.com/>) for texts, etc. Refer to the description for a particular component.



## Form design reference

### Address (URL) to which the data will be submitted

As common for the Internet, OpenRIMS stores the data collected by one page at a unique internal address or URL (Universal Resource Locator). For example, all personal academic certificates will be stored on the internal address “academic.certificates”, all general medical product data will be stored on “medicinal.product.definition”, etc. The FHIR implementation of the HL7 standard provides a clue on how to assign URLs for electronic form pages.

### The name and the name extension

**Attention! The name extension is the experimental feature that is in use only for the “intervals” component.**

A variable name in the data configuration should be alphanumeric with possible Latin characters, dots, and underscores. The last underscore or dot should be followed by a number or Latin character. The name should be started with a Latin character. For example:

- min.value.1 – right
- минимальное значение – wrong
- c1 – right
- 1c – wrong
- Etc.

In an on-screen form, the software tries to convert a variable to a field label using the internationalization feature, even if only one language is defined. In case, if for a variable the message is not defined, the variable will display “as is”.

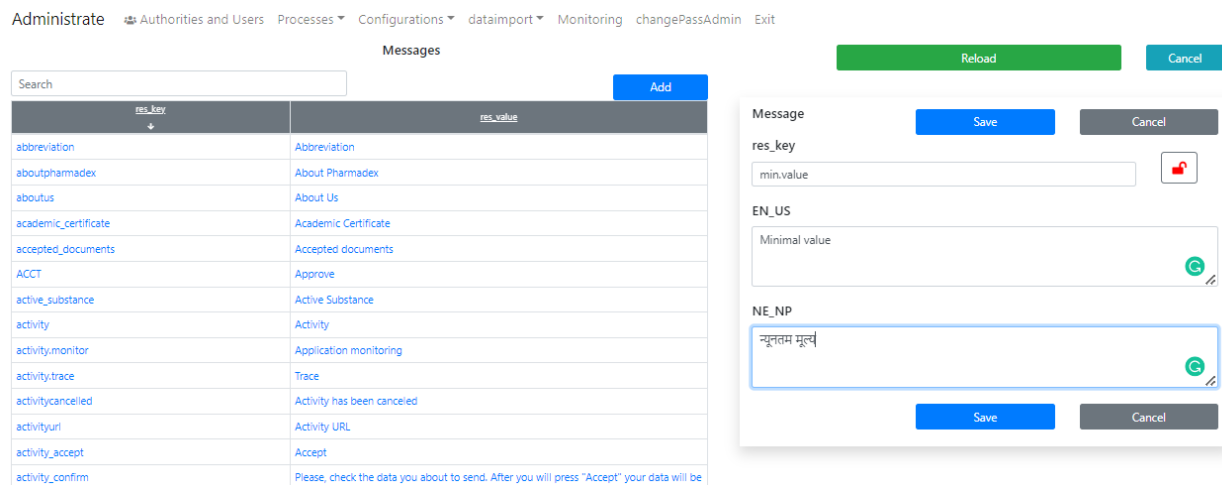


Figure 7 Each variable should be represented in human-readable form using the “messages” feature

### The description of a component (additional data)

The description or “additional data” of a component is a text that should help a user to understand how to fill out the component. Examples are:

- “Please, select a main business of your company” – good

- “The key to recognizing the type of a company” - bad

### Electronic form configuration restrictions (restricted edit)

For the production installation, the changing electronic form configuration is dangerous.

The following changes will badly affect the existing data:

1. Re-naming a component
2. Removing a component
3. Changing the type of a component

By default, the changes listed above are disabled if at least one of the conditions below occurs:

- The database already contains data created using the data configuration
- The data configuration is used by other data configuration
- The data configuration is used by activity configuration
- The data configuration is used by resource configuration

In the “sandbox” installations it is possible to bypass this restriction. To do this you must have access to edit the “application.properties” file in the server installation folder<sup>1</sup>

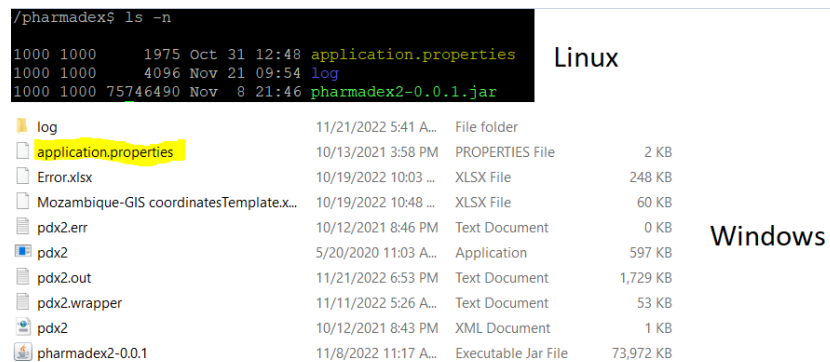


Figure 8 application.properties

Use any text editor to add to this file the configuration parameter `variables.properties.edit=true`. It allows bypassing the validation above. To stop bypassing the rules, remove this line from the application.properties or set it to “false”.

`variables.properties.edit=false`

<sup>1</sup> Ask IT personal to do it for the Sandbox installation

[Cancel](#)

**Data Directory**

[Add](#)

url	description
<input checked="" type="checkbox"/> <a href="#">pharmacy.site</a>	General pharmacy data
<input type="checkbox"/> <a href="#">pharmacy.site.classifiers</a>	All classifiers of a pharmacy is here
<input type="checkbox"/> <a href="#">pharmacy.site.owners</a>	Owner data of this site
<input type="checkbox"/> <a href="#">pharmacy.owner</a>	Pharmacy owner as a person
<input type="checkbox"/> <a href="#">pharmacy.site.person.details</a>	Details regarding any pharmacy-related person - owner or employee
<input type="checkbox"/> <a href="#">pharmacy.site.employees</a>	Employees of this pharmacy
<input type="checkbox"/> <a href="#">pharmacy.site.employee</a>	An employee
<input type="checkbox"/> <a href="#">pharmacy.site.documents</a>	Documents to upload
<input type="checkbox"/> <a href="#">payment.data</a>	
<input type="checkbox"/> <a href="#">pharmacy.site.inspection.reports</a>	Inspection reports and schedule Retail
<input type="checkbox"/> <a href="#">pharmacy.site.solution</a>	Retail site workflow schedule-8 last form
<input type="checkbox"/> <a href="#">configuration.resource.images</a>	Data necessary to configure a image resource

**Variables**

The edition of this data configuration is restricted due to external references

[Add](#)
[Preview](#)
[explore](#)

row	col	Order	Variables	ext	Class	Additional information
0	0	0	<a href="#">rxsiteDetail</a>		heading	
0	0	1	<a href="#">prefLabel</a>		literals	Enter name of pharmacy in English. Should include the word "Pharmacy" both in the nepali and English name.
0	0	2	<a href="#">name_nepali</a>		literals	Enter name of pharmacy in Nepali.
0	0	3	<a href="#">description</a>		literals	Some additional information to a pharmacy owner consideration
0	0	4	<a href="#">capital</a>		numbers	
0	0	5	<a href="#">photos</a>		documents	Upload photo of the building of the pharmacy and the front of the pharmacy(shutter)
0	1	0	<a href="#">tolename</a>		literals	Nepali specific low part of the address

Figure 9 Editions are restricted for pharmacy.site

It is possible to explore which references are in place. The button “explore” will provide both references and structure of the data in the MS Excel format:

	A	B	C	D	E
1	<b>References</b>	<b>URL</b>	<b>Quantity</b>		
2	data	pharmacy.site	93		
3					
4					
5					
6					
7					
8					
9					
10					
11					

References
pharmacy.site
dictio ...
+

Figure 10 There are 93 data records of this structure in the database. Thus the editions are restricted

To allow restricted editions in a data configuration:

1. Duplicate the data configurations
2. Change the URL of it
3. Make the editions
4. Change references if it will be needed

**Data Directory**

[Save](#)
[Remove](#)
[Cancel](#)
[duplicate](#)

url

pharmacy.site

Additional information

General pharmacy data

[Add](#)
[Preview](#)
[explore](#)

row	col	Order	Variables	ext	Class	Additional information
0	0	0	<a href="#">rxsiteDetail</a>		heading	
0	0	1	<a href="#">prefLabel</a>		literals	Enter name of pharmacy in English. Should include the word "Pharmacy" both in the nepali and English name.
0	0	2	<a href="#">name_nepali</a>		literals	Enter name of pharmacy in Nepali.
0	0	3	<a href="#">description</a>		literals	Some additional information to a pharmacy owner consideration
0	0	4	<a href="#">capital</a>		numbers	
0	0	5	<a href="#">photos</a>		documents	Upload photo of the building of the pharmacy and the front of the pharmacy(shutter)
0	1	0	<a href="#">tolename</a>		literals	Nepali specific low part of the address

Figure 11 Click on it to duplicate

Data Directory

copy

Add

	url	description
<input type="checkbox"/>	academic.certificate	Copy of relevant academic certificate(s)
<input type="checkbox"/>	pharmacy.site.copy	General pharmacy data

20

Figure 12 Find a copy just created

Data Directory

Save Remove Cancel duplicate

url

pharmacy.site.1

Additional information

General pharmacy data

Figure 13 Change the URL and save it

Data Directory

site.1

Add

	url	description
<input checked="" type="checkbox"/>	pharmacy.site.1	General pharmacy data

20

Variables

Search

Add Preview explore

row	col	Order	Variables	ext	Class	Additional information
0	0	0	rxsitedetail		heading	
0	0	1	prefLabel		literals	Enter name of pharmacy in English. Should include the word "Pharmacy" both in the nepali and English name.
0	0	2	name_nepali		literals	Enter name of pharmacy in Nepali.
0	0	3	description		literals	Some additional information to a pharmacy owner consideration

Figure 14 The editions are not restricted to the new data configuration



If the component contains “things” the preview will not check them. The “explore” feature allows checking data structures included and getting a list of references to the data structure.

	A	B	C	D	E	F	G
1	<b>References</b>	<b>URL</b>	<b>Quantity</b>				
2	data	pharmacy.site	93				
3							
4							
5							
6							
7							

References | pharmacy.site | dictionary.pharm ...

Figure 17 There are 93 records created using this data configuration

	A	B	C	D	E	F	G	H	I
1	<b>dictionary.pharmacy.site.photoss</b>								
2									
3	<b>level</b>	<b>Name</b>	<b>Additional information</b>	<b>URL</b>					
4	<b>Bad configuration</b>								
5									
6									
7									
8									
9									
10									
11									

... | dictionary.pharmacy.site.phot | pharamacy.site ...

Figure 18 Wrong URL for the dictionary

	A	B	C	D	E	F	G	H	I
1	<b>pharamacy.site.classifiers</b>								
2	<b>Bad configuration</b>								
3	<b>varname</b>	<b>varnameext</b>	<b>descr</b>	<b>Required</b>	<b>Mult</b>	<b>ReadOnly</b>	<b>Url</b>	<b>DictUrl</b>	<b>Mi</b>
4	<b>Bad configuration</b>								
5									
6									
7									
8									
9									
10									
11									
12									

... | pharamacy.site.classifiers | pharmacy.site.owner ...

Figure 19 Wrong URL for a thing

	A	B	C	D	E	F	G	H	I
1	pharmacy.owner								
2	Pharmacy owner as a person								
3	varname	varnameext	descr	Required	Mult	ReadOnly	Url	DictUrl	Mi
4	persondetails								
5	prefLabel		Name in English	+					
6	namenepali		Name in nepali	+					

Figure 20 It's OK

### On-screen layout

The basic configuration layout of an electronic form is in two columns. Depending on the room on the screen a form may be represented in two or one column. In the case of the one-column representation, the second column will be placed under the first one.

The numbering of rows and columns starts from zero.

0,0	0,1
1,0	1,1

Figure 21. The two columns' layout

The height of components may be very different. Thus, placing one component in a cell (row, col) is almost unusable

**Name**

0,0

**Address**

Nepal

	Name ↓	Additional information
<input type="checkbox"/>	Bagmati Province	
<input type="checkbox"/>	Gandaki Province	
<input type="checkbox"/>	Karnali Province	1,0
<input type="checkbox"/>	Lumbini Province	
<input type="checkbox"/>	Province 1	
<input type="checkbox"/>	Province 2	
<input type="checkbox"/>	Sudurpaschim Province	

20

GIS Location (Please click here)

**Additional information**

0,1

Figure 22. The only cell is not enough

To avoid this, OpenRIMS provides the third coordinate – an order inside the cell. The order starts from zero and allows the place of many components in a cell.

**Name**

0,0,0

**Address**

Nepal

	Name ↓	Additional information
<input type="checkbox"/>	Bagmati Province	
<input type="checkbox"/>	Gandaki Province	
<input type="checkbox"/>	Karnali Province	
<input type="checkbox"/>	Lumbini Province	
<input type="checkbox"/>	Province 1	
<input type="checkbox"/>	Province 2	
<input type="checkbox"/>	Sudurpaschim Province	

20

GIS Location (Please click here)

**Additional information**

0,0,1

Figure 23. Cell and order inside a cell are acceptable

OpenRIMS layout editor allows the define and re-arrange components easily using the following rules:

- Columns number possible only 0 and 1
- Values of rows and orders allowed up to 89. Row number 100 is reserved for “things”



When the user tries to place a component in a busy position inside a cell, the rest of the components in this cell will be shifted down

## The component's configuration reference

### addresses

Address dictionary with the possibility to select geographical coordinates

#### Address

Nepal / Bagmati Province / BHAKTAPUR

	Name ↓	Additional information
<input checked="" type="checkbox"/>	Bhaktapur Municipality	<a href="http://www.bhaktapurmun.gov.np/">http://www.bhaktapurmun.gov.np/</a> ,
<input type="checkbox"/>	Changunarayan Municipality	<a href="http://www.changunarayanmun.gov.np/">http://www.changunarayanmun.gov.np/</a> ,
<input type="checkbox"/>	Madhyapur Thimi Municipality	<a href="http://www.madhyapurthimimun.gov.np/">http://www.madhyapurthimimun.gov.np/</a> ,
<input type="checkbox"/>	Suryabinayak Municipality	<a href="http://www.suryabinayakmun.gov.np/">http://www.suryabinayakmun.gov.np/</a> ,

GIS Location (Please click here)

Figure 24. The address controls

Parameter	Usage	Example
Hide from an applicant	Not in use	
Minimal Offset		
Maximal Offset		
required	selection and coordinates are required	
mult		
Auxiliary Data		
url	where to store and find	nepal.address
dictUrl		
auxURL		
readOnly	value is read-only	
unique		
Name		
The pattern for the field or file names		

### atc

ATC codes for medicines

## ATC Code

The screenshot displays the ATC Code component in two states. On the left, a list of codes under the header 'B04' is shown, with 'A01AB04' selected. On the right, the 'ATC Code' search interface is shown with 'A01AB04' entered and 'amphotericin B' displayed. Both views include a pagination bar at the bottom with a list icon and a dropdown set to '10'.

ATC Code	ATC Name
A01AB04	amphotericin B
A02AB04	dihydroxialumini sodium carbonate
A03AB04	penthienate
A03BB04	fentonium
A03CB04	homatropine methylbromide and psycholeptics
A03DB04	butylscopolamine and analgesics
A06AB04	phenolphthalein
A07AB04	succinylsulfathiazole
A09AB04	citric acid
A10AB04	insulin lispro

Figure 25. The ATC codes component

Parameter	Usage	Example
Hide from an applicant	Not in use	
Minimal Offset		
Maximal Offset		
required	Require at least one code selected	
mult		
Auxiliary Data		
url	Where to store the selected codes?	medicinalproduct.productclassification
dictUrl	Where to find ATC codes	who.atc.human
auxURL		
readOnly	Display date only	
unique		
Name		
The pattern for the field or file names		

## dates

## Date input control

Parameter	Usage	Example
Hide from an applicant	Hide dates from an applicant	true
Minimal Offset	months from the current date	-3
Maximal Offset	months after the current date	3
required	value is required	
mult		
Auxiliary Data		
url		
dictUrl		
auxURL		
readOnly	value is read-only	true
unique		
Name		
The pattern for the field or file names		

## dictionaries

Allows selection from the pre-defined choices. For example

## System of Medicine

Product System Category Hierarchical / Allopathy

Name ↓	Additional information
<input checked="" type="checkbox"/> GA	The drugs under category "GA" may be sold by any seller on the basis of experience and even without the prescription of doctor and the presence of a pharmacist or a professional shall not be compulsory while selling the drug.
<input type="checkbox"/> KA	Category "KA" consists of narcotic and poisonous drugs and category. The drugs under this category shall be sold only on the prescription of a doctor and these drugs shall be sold by a pharmacist or professional ownself or only in the presence of any one out of either a pharmacist or a professional.
<input type="checkbox"/> KHA	Category "KHA" consists Antibiotics, Hormones, etc. The drugs under this category shall be sold only on the prescription of a doctor and these drugs shall be sold by a pharmacist or professional ownself or only in the presence of any one out of either a pharmacist or a professional.

20

Figure 26. The dictionary

Parameter	Usage	Example
Hide from an applicant	The dictionary is available only to NMRA staff.	true
Minimal Offset		
Maximal Offset		
required	at least one choice is required	
mult	It is possible to select more than one value on the last level of a dictionary	false
Auxiliary Data		
url	url of the dictionary	dictionary.guest.deregistration
dictUrl		
auxURL		
readOnly	value is read-only	
unique		
Name	For single-choice dictionaries copy values from the selected prefLabel and description to form's literal prefLabel and description if ones are existing	
The pattern for the field or file names		

## documents

Documents that have been uploaded by a user.

## Photo of Pharmacy

File Name	Name ↓	Additional information
ma.txt	Building Photo	A recently taken photo of the building where the pharmacy will be located. The photo should not be older than 2 months.
Upload a file	Shutter Photo	A recently taken photo of the pharmacy outlet/shutter from which sales and distribution is handled. The photo should not be older than a month.

Figure 27. The file uploader component

Parameter	Usage	Example
Hide from an applicant	The dictionary is available only to NMRA staff.	true
Minimal Offset	wide of the image <sup>2</sup> in pixels. Not mandatory	300
Maximal Offset	height of the image in pixels. Not mandatory	300
required	at least one file should be uploaded	
mult		
Auxiliary Data		
url	where to store and find	pharmacy.documents
dictUrl	dictionary with the list of files to upload descriptions	dictionary.pharmacy.site.photos
auxURL		
readOnly	value is read-only	
unique		
Name		
The pattern for the field or file names	file types allowed <sup>3</sup>	.jpg,.png,.tiff

<sup>2</sup> In case if jpg, jpeg or png file will be uploaded. For other types of uploaded files will be ignored

<sup>3</sup> <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/input/file> - see attribute "accept"

## droplist

The droplist is a simplified representation of a one-level, single-choice dictionary. For example, the dictionary.business.agreements can be represented as a droplist

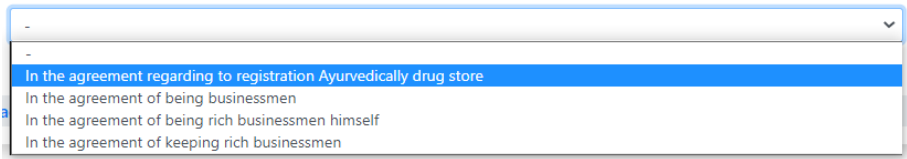


Figure 28 A droplist looks like a general-purpose dropdown

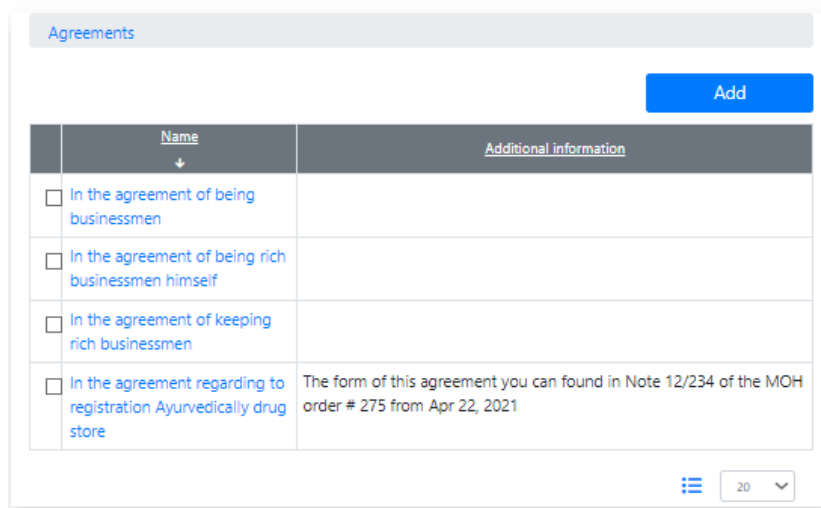


Figure 29 dictionary.business.agreements

Unlike a general-purpose dropdown, the droplist allows additional information defined by the dictionary.

Upload the signed agreement

In the agreement regarding to registration Ayurvedically drug store

?

The form of this agreement you can find in Note 12/234 of the MOH order # 275 from Apr 22, 2021

Parameter	Usage	Example
Hide from an applicant	Not used	
Additional Information	Not used	
Minimal Offset	Not used	
Maximal Offset	Not used	
required	A value should be selected	True
mult	Not used	
Auxiliary Data		
url	Dictionary URL	
dictUrl	Not used	

Parameter	Usage	Example
auxURL	Not used	retail.site.owned.persons,p harmacy.retail.registered
readOnly	Display only selected value	true
unique	Not used	
Name	Allow copy selected value to prefLabel and additional information, if one, to the description	true
The pattern for the field or file names	Not used	

## headings

Displays a label or a link to an external resource.

Parameter	Usage	Example
Hide from an applicant	Not used	
Minimal Offset		
Maximal Offset		
required		
mult		
Auxiliary Data		
url	Link to an external resource. Not mandatory	<a href="https://google.com">https://google.com</a>
dictUrl		
auxURL		
readOnly		
unique		
Name		
The pattern for the field or file names		

## intervals

An interval between two dates.

## Certificate validity dates

From

3/9/2022



To

3/9/2022



Figure 30. The interval component

Parameter	Usage	Example
Hide from an applicant	Not used	
Minimal Offset	The length of the interval in months	
Maximal Offset	The max in the interval, zero means no restrictions	
required	Minimal Offset and Maximal offset constraints should be applied	
mult		
Auxiliary Data		
url		
dictUrl		
auxURL		
readOnly		
unique		
The pattern for the field or file names		



## legacy

Allows to select objects uploaded from the legacy data. Applicable for manual legacy data export, usage of the legacy data for new applications, etc.

## legacy

	Name	altLabel	Register Number	Registration Date	Expiry Date
<input type="checkbox"/>	Lion and Pan Pharmacy	Аптека Лев и Кастрюля	12345/2015	Jan 12, 2015	Feb 12, 2021
<input type="checkbox"/>	Moon and Eggs Pharmacy	Аптека Луна и Яичница	43211/2016	Jun 1, 2016	Jul 1, 2022

Figure 31. The legacy data component

Parameter	Usage	Example
Hide from an applicant	Not used	
Minimal Offset		
Maximal Offset		
required	Require the selection	
mult		
Auxiliary Data		
url	Where to store the selected codes?	pharmacies.registered.legacy
dictUrl	The kind of legacy data, e.g., pharmacies, medicines, etc.	legacy.pharmacies
auxURL		
readOnly	Display date only	
unique		
Name	See notes below	
The pattern for the field or file names		

Regardless of the configuration field “Name” value, such data will be copied to the form components:

1. “Name” to the literal “prefLabel”, if defined on the form
2. “altLabel” to the literal “altLabel”, if defined on the form
3. Registration date, expiration date, and register number to the register “legacyRegister”, if defined on the form

## links

This component allows the usage of data from other applications. For example:

- Manufacturer's data in a medicinal product application
- Medicinal product data in an import permit application
- Facility data in a wholesaler application
- etc.

The only restriction is that the other application should be approved, but not de-registered yet.

The screenshot shows a web interface with a search bar at the top left. To the right of the search bar are two highlighted links: "20220217 Private Limited Pharmacy / Main unit, Pharmacy role in the cooperative" and "Pharmacy 20220310-1 / Reserve warehouse, Pharmacy role in the cooperative". Below these links is a table with two columns: "Name" and "Additional information". The table contains two rows, both with a checked checkbox in the first column. The first row's "Name" is "20220217 Private Limited Pharmacy" and its "Additional information" is "Bhaktapur Municipality, BHAKTAPUR, Bagmati Province, Nepal#, C) Community, Private, Pharmacy Service categories#, Cash, Payment Options#, GA, Allopathy, Product System Category Hierarchical#". The second row's "Name" is "Pharmacy 20220310-1" and its "Additional information" is "A) Lower level Health facility, Government, Pharmacy Service categories#, Bhaktapur Municipality, BHAKTAPUR, Bagmati Province, Nepal#, Cash, Payment Options#, GA, Allopathy, Product System Category Hierarchical#". At the bottom right of the table is a pagination control showing "10" and a dropdown arrow.

	Name	Additional information
<input checked="" type="checkbox"/>	20220217 Private Limited Pharmacy	Bhaktapur Municipality, BHAKTAPUR, Bagmati Province, Nepal#, C) Community, Private, Pharmacy Service categories#, Cash, Payment Options#, GA, Allopathy, Product System Category Hierarchical#
<input checked="" type="checkbox"/>	Pharmacy 20220310-1	A) Lower level Health facility, Government, Pharmacy Service categories#, Bhaktapur Municipality, BHAKTAPUR, Bagmati Province, Nepal#, Cash, Payment Options#, GA, Allopathy, Product System Category Hierarchical#

Figure 32 The data of existing facilities are used in the application

Sometimes it will be necessary to identify the data from other applications. For example, a manufacturer may be identified by the role in the manufacturer process, i.e., finished product manufacturer, packager, etc.

The component “links” allows making the identification using a single-level dictionary

## facilities

The screenshot shows a web interface with a title "20220217 Private Limited Pharmacy" and a subtitle "Pharmacy role in the cooperative". Below this is a table with two columns: "Name" and "Additional information". The table contains three rows, each with an unchecked checkbox in the first column. The first row's "Name" is "Main unit", the second is "Point of sale", and the third is "Reserve warehouse". The "Additional information" column is empty for all three rows. At the bottom right of the table is a pagination control showing "20" and a dropdown arrow.

	Name	Additional information
<input type="checkbox"/>	Main unit	
<input type="checkbox"/>	Point of sale	
<input type="checkbox"/>	Reserve warehouse	

Figure 33 The dictionary allows making the identification

By default, the component “links” allows the usage of data only from applications that belong to the applicant. For example, the import permit application allows only medicinal products registered by the applicant.

It is possible to override this behavior by adding the prefix “all.” to the “url” field in the data configuration:

Parameter	Usage	Example
Hide from an applicant	Not used	
Additional Information	Help message that will be available permanently on the top. The usage of this parameter is necessary for a good usability	Select a pharmacy from the list and, then a pharmacy role in the cooperative
Minimal Offset	Not used	
Maximal Offset	Not used	
required	At least one link should be selected	True
mult	Many links may be selected	True
Auxiliary Data		
url	URL of the links to use in reports.	all.warehouses <sup>4</sup> warehouses
dictUrl	Dictionary to identify the links	dictionary.cooperative.pharmacy.role
auxURL	URL or comma separated a list of URLs from which objects to link will be selected.	retail.site.owned.persons,pharmacy.retail.registered
readOnly	Will display only selected links along with the classifiers, if one	False
unique	Not used	
Name	Copy selected value to prefLabel and description	See Table 1 How selected value will be copied to literals if corresponding literals are defined in the form
The pattern for the field or file names	Not used	

Table 1 How selected value will be copied to literals if corresponding literals are defined in the form

	Other references
<b>prefLabel</b>	prefLabel of the linked object
<b>description</b>	Description of the linked object

<sup>4</sup> By default, selection allowed only from objects belongs to a current user. For example, medicinal product registered by the user. However, if URL starts with “all.” the selection will be from all registered objects.

## literals and strings

The text input field. The “strings” keep the same text for all languages, and “literals” allow distinct text for each language.

Parameter	Usage	Example
Hide from an applicant	Hide test fields from an applicant	true
Minimal Offset	min length in characters	3
Maximal Offset	max length in characters	1024
required	value is required	
mult		
Auxiliary Data		
url		
dictUrl		
auxURL		
readOnly	value is read-only	
unique	the value should be unique	
Name		
The pattern for the field or file names	Java Regular expression pattern. The most used patterns and details are here [String validation patterns]	[a-zA-Z]{3}

## logical

Yes/No/NA logical field

Parameter	Usage	Example
Hide from an applicant	Not used	
Minimal Offset		
Maximal Offset		
required		
mult		
Auxiliary Data		
url		
dictUrl		
auxURL		
readOnly	value is read-only	
unique		
Name		
The pattern for the field or file names		

## numbers

## Number input field

Parameter	Usage	Example
Hide from an applicant	Not used	
Minimal Offset	min value	0
Maximal Offset	max value	1000000
required	value is required	
mult		
Auxiliary Data		
url		
dictUrl		
auxURL		
readOnly	value is read-only	
unique		
Name		
The pattern for the field or file names		

## persons

Allows adding detailed records to the main data. Examples are pharmacy owners to a pharmacy or warehouses the wholesaler.

### Owners

Figure 34. The "persons" component - detail records

Parameter	Usage	Example
Hide from an applicant	Not used	
Minimal Offset		
Maximal Offset		
required	at least one detailed record is required	
mult		
Auxiliary Data		
url	Where to store detail records	site.owners.persons
dictUrl		
auxURL		
readOnly		
unique		
Name		
The pattern for the field or file names		

## registers

Provides assigning numbers, registration dates, and expiration dates like a typical filing system register.

## certificate

Registration Date

3/8/2022



Register Number

Expiry Date

3/8/2024



Figure 35. The register component

Parameter	Usage	Example
Minimal Offset	Offset in months from the current date to the minimal possible registration date	-1
Maximal Offset	Offset in months from the current date to the maximal possible expiration date	
required	the dates should fit the Minimal offset – Maximal offset criteria	
mult	If true, the expiration date will be available. Otherwise, the registration date only.	
Auxiliary Data		
url	Where to store the register?	pharmacy.site.renew
dictUrl		
auxURL		
readOnly	Display date only	
unique		
Name		
The pattern for the field or file names	The registration number prefix. For most filing systems – the code of cases	MR/

## resources

Download documents, pictures, and templates.

## Invoice

File Name	Name ↓	Additional information
<a href="#">owner_image.docx</a>	1) If capital is up to 100,000	
<a href="#">Receipt for Capital of 1,00,001 to 5,00,000.docx</a>	2) If capital is 100,001 to 500,000	
<a href="#">Receipt for Capital above 5,00,001.docx</a>	3) if capital is above 500,000	

 10 ▼

Figure 36. The file resource component

Parameter	Usage	Example
Minimal Offset		
Maximal Offset		
required		
mult		
Auxiliary Data		
url	Resource configuration URL	res.pharmacy.new.invoices
dictUrl		
auxURL		
readOnly		
unique		
Name		
The pattern for the field or file names		



## schedulers

Allows to run another follow-up application after the application will be approved. Examples are “scheduled renewal payment”, “scheduled inspection”, etc.

schedule

7/8/2024






Figure 37. The scheduler component

Parameter	Usage	Example
Minimal Offset	Offset in months from the current date to the minimal possible date to run the follow-up application	
Maximal Offset	Offset in months from the current date to the maximal possible date to run the follow-up application	
required	the scheduled date should fit the Minimal offset – Maximal offset criteria	
mult		
Auxiliary Data		
url	Where to store the scheduler?	pharmacy.site.renew
dictUrl		
auxURL	Which application should be scheduled?	application.pharmacy.renew
readOnly	Display only	
unique		
Name		
The pattern for the field or file names		

## things

A sequence of electronic forms that placed at the right of the main form

Applications New applications Modifications De-registration Exit

## New Retail Pharmacy Privately Owned

Show print form Save Cancel

1 2... 5 of 6

Pharmacy 20220217 / Classifiers / Owners / Pharmacists / Report Payment / Next

**Invoice**

File Name	Name	Additional information
owner_image.docx	1) If capital is up to 100,000	
Receipt for Capital of 1,00,001 to 5,00,000.docx	2) If capital is 100,001 to 500,000	
Receipt for Capital above 5,00,001.docx	3) If capital is above 500,000	

Mode of payment

Payment Options

Name	Additional information
<input checked="" type="checkbox"/> Cash	Pay directly in cash in DDA.
<input type="checkbox"/> Cheque	Please make deposit of the cheque.
<input type="checkbox"/> Electronic bank transfer	please, use electronic bank transfer to make payment.

Payment date

2/17/2022

**Document Upload**

File Name	Name	Additional information
ma.txt	1) Receipt/Voucher	Please upload a caned copy of the receipt from the cashiers office or a scanned copy of the voucher which was issued by the bank. Please make sure the receipt or voucher number match the number you have entered for this payment.
Upload a file	x) Other payment documents	May not be needed??

Receipt Number

12121edqa2

Name of Bank

Big Bank

Details of payment (i.e. Name of Pharmacy / bank reference number )

qwqbwqbwqw

Pharmacy 20220217 / Classifiers / Owners / Pharmacists / Report Payment / Next

Figure 38. The main form and sub-forms

1. The main form. This form must contain a literal with the name prefLabel.
2. Additional forms that should be included using the “thing” class

Parameter	Usage	Example
Minimal Offset		
Maximal Offset		
required		
mult		
Auxiliary Data		
url	URL of an electronic form configuration. This form should not contain “things”, however, may contain any other component	retail.pharmacy.classifiers
dictUrl		
auxURL	In case when this electronic form configuration contains class [persons] .The URL of a configuration of the detail record electronic form.	site.owner.person
readOnly		
unique		
Name		

Parameter	Usage	Example
The pattern for the field or file names		

## String validation patterns

For “literals” and “strings” components it is possible to assign a pattern that the user’s input should match. For example, pattern **pharmacy** means that the input text should contain the word **pharmacy** anywhere.

On <https://www.vogella.com/tutorials/JavaRegularExpressions/article.html> you can find a detailed description of this approach.

The most common examples are:

### Phone number:

```
^\+\d{1,3}(\d{1,3})\d{3}-\d{2}-\d{2}|^\+\d{1,3}(\d{1,3})\d{7}
```

Will match

```
+1(111)111-11-11
```

or

```
+1(111)1111111
```

### Email address:

```
^[-a-z0-9~!$%^&*_=+}{\'}+([\.-a-z0-9~!$%^&*_=+}{\'}+)*@([a-z0-9_][a-z0-9_]*\.[a-z0-9_]+)*\. (aero|arpa|biz|com|coop|edu|gov|info|int|mil|museum|name|net|org|pro|travel|mobi|[a-z][a-z])|([0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3})|(:[0-9]{1,5})?&
```

Will match

[nobody.real.never.man@neverland.com.ua](mailto:nobody.real.never.man@neverland.com.ua)

or, we believe, will match any other email address in this format

The <https://regex101.com/> resource will help to build your patterns. Please, do not forget to select Java as a language.