

# Form Components

## Form Builder

The Form Builder feature allows us to create any new form via API. Ideally, the API responds the form structure in JSON format and the Native Mobile App will render the native UI element then.  
Check out the following tutorial to get an overview on how to implement form: [Tutorial 3: Add new Create Button and connect to create a new post Form](#)

### Some common use cases of Form:

- Create or Edit form for an item such as Blog, Event, Music...
- Link Edit action to an Edit form

For each form, we create a class extended the **GeneralForm** class. This parent class already has many methods to manage the form's fields and control business rule, validation, handle submission.

## Form Components

Form components are pre-defined components used for rendering Form elements and controlled by Form API.

### General parameters for all Form component

Key	Type	Description	Example
name	String	The unique id of this form component in this section	'postal_code', 'email', 'password',.....
label	String	The label of the form component	'Postal Code', 'Email', 'Password', 'Number', ....
inline	Boolean	Adjust the label and the form component in one line	<div>Postal Code      70000</div>
required	Boolean	Show the red Asterisk (*) next to the label to remind the user to have to fill in this field	<div>I am *</div> <div><div>Male</div><div>Female</div><div>Others</div></div>
value	String	Array	The initial value is used to set into form component (common-case use in edit form)
	String		<div>Number      789641235</div>

r et u r n K e y T y pe	Deter mines how the return key behavi or. Curren tly suppor ted: <ul style="list-style-type: none"><li>'d e f a ul t'. D e f a ul t v al u e ' C lo s e k e y b o a r d a n d u n f o c u s fi el d a ft e r p r e s s 'r e t u r n' o r 'o k'</li></ul>
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		<ul style="list-style-type: none"><li>• 'n e x t ' . G o t o t h e n e x t f i e l d a f t e r p r e s s 'r e t u r n' o r 'o k'</li></ul>	
pl a c e h o l d e r	S t r i n g	The placeh older text of the text input if this form compo nent has related to the text input field	Email  Enter email address <hr/>
d e s c r i p t i o n	S t r i n g	Descri ption of this form compo nent. This will show under this form compo nent	

Supported form field components


The current version of the Native App has supported the following components

Basic Form Field Components

C o m p o n e n t N a m e	Render on Mobile App	Specific Parameters	Associated class
T e x t	<div>Postal Code 70000</div>	<b>Parameters:</b> <ul style="list-style-type: none"><li>value: (string)</li></ul> <b>Submit value format:</b> (string)	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\TextType
E m a i l	<div>Email david@phpfox.com</div>	<b>Parameters:</b> <ul style="list-style-type: none"><li>value: (string)</li></ul> <b>Submit value format:</b> (email as string)	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\EmailTy
P a s s w o r d	<div>Password •••••</div>	<b>Parameters:</b> <ul style="list-style-type: none"><li>value: (string)</li></ul> <b>Submit value format:</b> (string)	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\Passwo

Number	<div><div>Number</div><div>789641235</div></div>	<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>value: (string) <b>Submit value format:</b> (int)</li></ul>	\Apps\Core_MobileApi\ApiForm\Type\Integer
Radio	<div><div>I am *</div><div><div>Male</div><div>Female</div><div>Others</div></div></div>	<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>value: (string)</li><li>options: (array) Each option has <b>value</b> and <b>label</b> fields</li></ul> <p><b>Submit value format:</b> (string)</p>	<p>int) the selected <b>value</b> <b>API response example:</b></p> <pre>▼ options [2]   ▼ 0 {2}     value : 1     label : Male   ▼ 1 {2}     value : 2     label : Female</pre>

P h o n e N u m b e r			Parameters: <ul style="list-style-type: none"><li>value: (string) <b>Submit value format:</b> (string)</li></ul>	Apps\Core_MobileApi\Api\Form\Type\Phone
	Phone	+84397634709		

P r i v a c y		<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>• value: (string) <b>Submit value format:</b> (int</li></ul>	array)
Fi le	<p>Upload single file or photo</p> <p>Select Image(s) *</p> 	<p><b>Parameters:</b></p>	\Apps\Core_MobileApi\Api\Form\Type\FileTyp

- **file\_type:** (string), (photo, video, file) which file type allows to upload
- **preview\_url:** (string) use in edit case for preview purpose
- **item\_type:** module id of app alias use for callback in server
- **upload\_endpoint:** (string) defines pre-upload URL

**Submit value format:** (array)  
[ status : 'new' , temp\_file : '{num}']

**Purpose of each field:**

- **status:** can new, change, unchanged, remove, base in this flag let us know the state of the file
- **temp\_file:** the temp file id was uploaded



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Upload multiple files or Photos

Select Image(s) \*



Parameters:


- **file\_type:** (string)
- **item\_type:** module id of app alias use for callback in server
- **multiple:** (bool)
- **min\_files:** (int)
- **max\_files:** (int)
- **current\_files:** (array of file with fields [id, url, default])
- **upload\_endpoint:** (string)

**Submit value format:** (array) with format  
{ 'new' : [4,5,6], 'remove' : [1,2,3], 'order' : [3,2,1], 'default' : 2 }

**Purpose of each flat:**

- **new:** List of new temp file ida that were pre-uploaded
- **remove:** List of removed temp field id
- **order:** The ordering of each file
- **default:** the ID of file use as default




Video Upload	<div>Extends from file type but limit file type to Video only</div> <div>Select video file </div>	<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>file_type: (string)</li><li>item_type: (string) module alias</li><li>upload_endpoint: (string)</li></ul> <p><b>Submit value format:</b> (array) with format [status : 'new' ,temp_file : '{num}']</p>	\Apps\Core_MobileApi\Api\Form\Type\VideoU
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A t t a c h m e n t		<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>• file_type: (string)</li><li>• upload_endpoint: (string)</li><li>• current_attachments: (array)</li><li>• item_type: (string) module alias</li><li>• item_id: (int) ID of the attachment is belong to</li></ul> <p><b>Submit value format:</b> (array) array of attachment IDs that were reuploaded to the site</p>	
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P r i c e	<div><div>Price</div><div>100000000</div></div>	<div>Parameters:</div> <div><div><div>value: (string)</div><div>Submit value format: (string)</div></div></div>	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\PriceTy
T e x t A r e a	<div><div>Description</div><div>This is the description of .....</div></div>	<div>Parameters:</div> <div><div><div>value: (string)</div><div>Submit value format: (string)</div></div></div>	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\Textare
S l i d e r	<div><div>Between Ages</div><div><div></div></div></div>	<div>Parameters:</div> <div><div><div>value: (string)</div><div>minimumValue: (int)</div><div>maximumValue: (int)</div><div>Submit value format: (array)</div></div></div>	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\SliderT
C h e c k b o x	<div><div>Allow multiple choice</div><div><div></div></div></div>		\\Apps\\Core_MobileApi\\Api\\Form\\Type\\Checkb

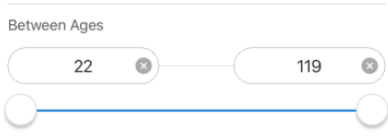
C h o i c e	<div>Currency * U.S. Dollars ▾</div>	<div>Parameters:</div> <ul style="list-style-type: none"><li>value: (string)</li><li>options: (array)</li></ul> <div>Submit value format: (string)</div> <div>▼ options [2]</div> <div>▼ 0 {2}</div> <div>value : AF</div> <div>label : afghanistan</div> <div>▼ 1 {2}</div> <div>value : VN</div> <div>label : Viet Nam</div>	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\Choice
M u l t i C h o i c e	Create multi-select	<div>Parameters:</div> <ul style="list-style-type: none"><li>value: (string)</li><li>options: (array)</li></ul> <div>Submit value format: (array) array of selected option</div>	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\MultiCh
D a t e	<div>Start Time * 2019-03-20</div> <div></div>	<div>Parameters:</div> <ul style="list-style-type: none"><li>value: (string)</li></ul> <div>Submit value format: (string) format yyyy-mm-dd</div>	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\DateTy

Birth day	<div><div>Birth<span>day</span> *</div><div></div></div>	<div>Parameters:</div> <div><div>• value: (string)</div><div>Submit value format: (string) format yyyy-mm-dd</div></div>	\Apps\Core_MobileApi\Api\Form\Type\Birthda
Time	<div><div>Start Time *</div><div>11:07</div></div>	<div>Parameters:</div> <div><div>• value: (string)</div><div>Submit value format: (string) format H:i:s</div></div>	\Apps\Core_MobileApi\Api\Form\Type\TimeTy

Date Time	<div>End Time <span></span></div> <div>Fri, Mar 15, 2019 6:00 PM </div>	<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>value: (string) <b>Submit value format:</b> (string) format yyyy-mm-dd H:i:s</li></ul>	\Apps\Core_MobileApi\Api\Form\Type\DateTir
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Friend Picker	<div><div>- with Raining</div><div></div><div></div></div>	<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>• value: (array)</li><li>• api_endpoint: (string)</li><li>• item_type: (string)</li><li>• item_id: (int)</li></ul> <p><b>Submit value format:</b> (array) array of selected friend user IDs</p>	\Apps\Core_MobileApi\ApiForm\Type\FriendF
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R el at io n s h i p P i c k e r	Similar to Friend Picker	<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>• value: (array)</li><li>• api_endpoint: (string)</li><li>• item_type: (string)</li><li>• item_id: (int)</li></ul> <p><b>Submit value format:</b> (array) array of selected user IDs</p>	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\Relation Type
R a n g e		<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>• value: (string)</li><li>• minimumValue: (int)</li><li>• maximumValue: (int)</li></ul> <p><b>Submit value format:</b> (array)</p>	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\Range1
B u t t o n	Create a button	<p><b>Parameters:</b></p> <ul style="list-style-type: none"><li>• label: (string)</li></ul>	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\Button1

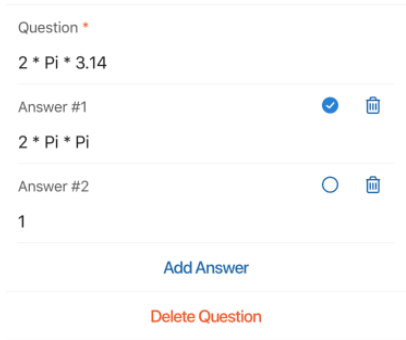
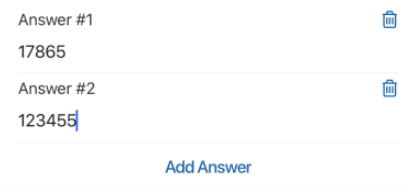

S u b m i t	Create a form submit button	<b>Parameters:</b> <ul style="list-style-type: none"><li>label: (string)</li></ul>	Apps\Core_MobileApi\Api\Form\Type\Submit
T a g s	Create an input tags field	<b>Parameters:</b> <ul style="list-style-type: none"><li>value: (array) <b>Submit value format:</b> (array)</li></ul>	Apps\Core_MobileApi\Api\Form\Type\TagsTy

U rl	Create a URL input field	<b>Parameters:</b> <ul style="list-style-type: none"><li>• value: (string)</li><li>• preview_endpoint: (string)</li></ul> <b>Submit value format:</b> (array)	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\UrlType
H ie ra rc hy	Multi level selectbox	<b>Parameters:</b> <ul style="list-style-type: none"><li>• options: (array)</li><li>• suboptions: (array)</li></ul> <b>Submit value format:</b> (array)	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\Hierarc

Hidden	Hidden field	<b>Parameters:</b> <ul style="list-style-type: none"><li>value: (int</li></ul>	string) <b>Submit value format:</b> (int
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C o u n t r y S t a t e	Build a Country state select	<b>Parameters:</b> <ul style="list-style-type: none"> <li>value: (array)</li> <li>options: (array)</li> <li>suboptions: (array)</li> </ul> <b>Submit value format:</b> (array)	\\Apps\\Core_MobileApi\\Api\\Form\\Type\\Country

### Some special form components

Component Name	Image Example	Class	Note
QuizQuestion		\\Apps\\Core_MobileApi\\Api\\Form\\Type\\QuizQuestionType	This is a special component type used in create and edit Quiz Form
PollAnswer		\\Apps\\Core_MobileApi\\Api\\Form\\Type\\PollAnswerType	The special component type use as a form field in creating and edit Poll
RelationshipPicker		\\Apps\\Core_MobileApi\\Api\\Form\\Type\\RelationshipPickerType	