

---+ Package TWiki::Form

Object representing a single form definition.

Form definitions are mainly used to control rendering of a form for editing, though there is some application logic there that handles transferring values between edits and saves.

A form definition consists of a TWiki::Form object, which has a list of field definitions. Each field definition is an object of a type derived from TWiki::Form::FieldDefinition. These objects are responsible for the actual syntax and semantics of the field type. Form definitions are parsed from TWiki tables, and the types are mapped by name to a class declared in TWiki::Form::\* - for example, the `text` type is mapped to TWiki::Form::Text and the `checkbox` type to TWiki::Form::Checkbox.

The TWiki::Form::FieldDefinition class declares default behaviours for types that accept a single value in their definitions. The TWiki::Form::ListFieldDefinition extends this for types that have lists of possible values.

## ClassMethod new (\$session, \$web, \$form, \$def)

Looks up a form in the session object or, if it hasn't been read yet, reads it from the form definition topic on disc.

- `$web` - default web to recover form from, if `$form` doesn't specify a web
- `$form` - topic name to read form definition from
- `$def` - optional. a reference to a list of field definitions. if present, these definitions will be used, rather than those in `$form`.

May throw TWiki::OopsException

## ObjectMethod finish ()

Break circular references.

## StaticMethod fieldTitle2FieldName (\$title) -> \$name

Chop out all except A-Za-z0-9\_ from a field name to create a valid "name" for storing in meta-data

## ObjectMethod renderForEdit (\$web, \$topic, \$meta) -> \$html

- `$web` the web of the topic being rendered
- `$topic` the topic being rendered
- `$meta` the meta data for the form

Render the form fields for entry during an edit session, using data values from `$meta`

## ObjectMethod renderHidden (\$meta) -> \$html

Render form fields found in the meta as hidden inputs, so they pass through edits untouched.

## ObjectMethod getFieldValuesFromQuery (\$query, \$metaObject) -> (\$seen, \@missing)

Extract new values for form fields from a query.

- \$query - the query
- \$metaObject - the meta object that is storing the form values

For each field, if there is a value in the query, use it. Otherwise if there is already entry for the field in the meta, keep it.

Returns the number of fields which had values provided by the query, and a references to an array of the names of mandatory fields that were missing from the query.

## ObjectMethod isTextMergeable (\$name) -> \$boolean

- \$name - name of a form field (value of the name attribute)

Returns true if the type of the named field allows it to be text-merged.

If the form does not define the field, it is assumed to be mergeable.

## ObjectMethod getField (\$name) -> \$fieldDefinition

- \$name - name of a form field (value of the name attribute)

Returns a `TWiki::Form::FieldDefinition`, or `undef` if the form does not define the field.

## ObjectMethod getFields () -> \@fields

Return a list containing references to field name/value pairs. Each entry in the list has a {name} field and a {value} field. It may have other fields as well, which caller should ignore. The returned list should be treated as **read only** (must not be written to).

This topic: TWiki > TWikiFormDotPm

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