Module sui::dynamic_field

In addition to the fields declared in its type definition, a Sui object can have dynamic fields that can be added after the object has been constructed. Unlike ordinary field names (which are always statically declared identifiers) a dynamic field name can be any value with the copy, drop, and store abilities, e.g. an integer, a boolean, or a string. This gives Sui programmers the flexibility to extend objects on-the-fly, and it also serves as a building block for core collection types

Internal object used for storing the field and value

The object already has a dynamic field with this name (with the value and type specified)

Cannot load dynamic field. The object does not have a dynamic field with this name (with the value and type specified)

The object has a field with that name, but the value type does not match

Failed to serialize the field's name

The object added as a dynamic field was previously a shared object

Adds a dynamic field to the object object: & mut UID at field specified by name: Name. Aborts with EFieldAlreadyExists if the object already has that field with that name.

Immutably borrows the <u>object</u>'s dynamic field with the name specified by name: Name. Aborts with <u>EFieldDoesNotExist</u> if the object does not have a field with that name. Aborts with <u>EFieldTypeMismatch</u> if the field exists, but the value does not have the specified type.

Mutably borrows the <u>object</u>'s dynamic field with the name specified by name: Name. Aborts with <u>EFieldDoesNotExist</u> if the object does not have a field with that name. Aborts with <u>EFieldTypeMismatch</u> if the field exists, but the value does not have the specified type.

Removes the <u>object</u> s dynamic field with the name specified by name: Name and returns the bound value. Aborts with <u>EFieldTopesNotExist</u> if the object does not have a field with that name. Aborts with <u>EFieldTypeMismatch</u> if the field exists, but the value does not have the specified type.

Returns true if and only if the <u>object</u> has a dynamic field with the name specified by name: Name but without specifying the Value type

Removes the dynamic field if it exists. Returns the some(Value) if it exists or none otherwise.

Returns true if and only if the <u>object</u> has a dynamic field with the name specified by name: Name with an assigned value of type Value.

May abort with EBCSSerializationFailure.

throws <u>EFieldDoesNotExist</u> if a child does not exist with that ID or throws <u>EFieldTypeMismatch</u> if the type does not match, and may also abort with <u>EBCSSerializationFailure</u> we need two versions to return a reference or a mutable reference

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Internal object used for storing the field and value ```bash

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| Cannot load dynamic field. The object does not have a dynamic field with this name (with the value and type specified)                                                                                                                                                                                             |
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| The object has a field with that name, but the value type does not match                                                                                                                                                                                                                                           |
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| Failed to serialize the field's name                                                                                                                                                                                                                                                                               |
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