Elmo Documentation

Release 1.0

Peter Bengtsson

Sep 27, 2017

Contents

Elmo is l.m.o, which is l10n.mozilla.org.

Elmo is an infrastructure of web apps that are intended to help the l10n community. Presently, our tools, docs, sites, wikipages, etc., all live in a fairly disorganized, disparate world that we often ask localizers to navigate to get stuff done.

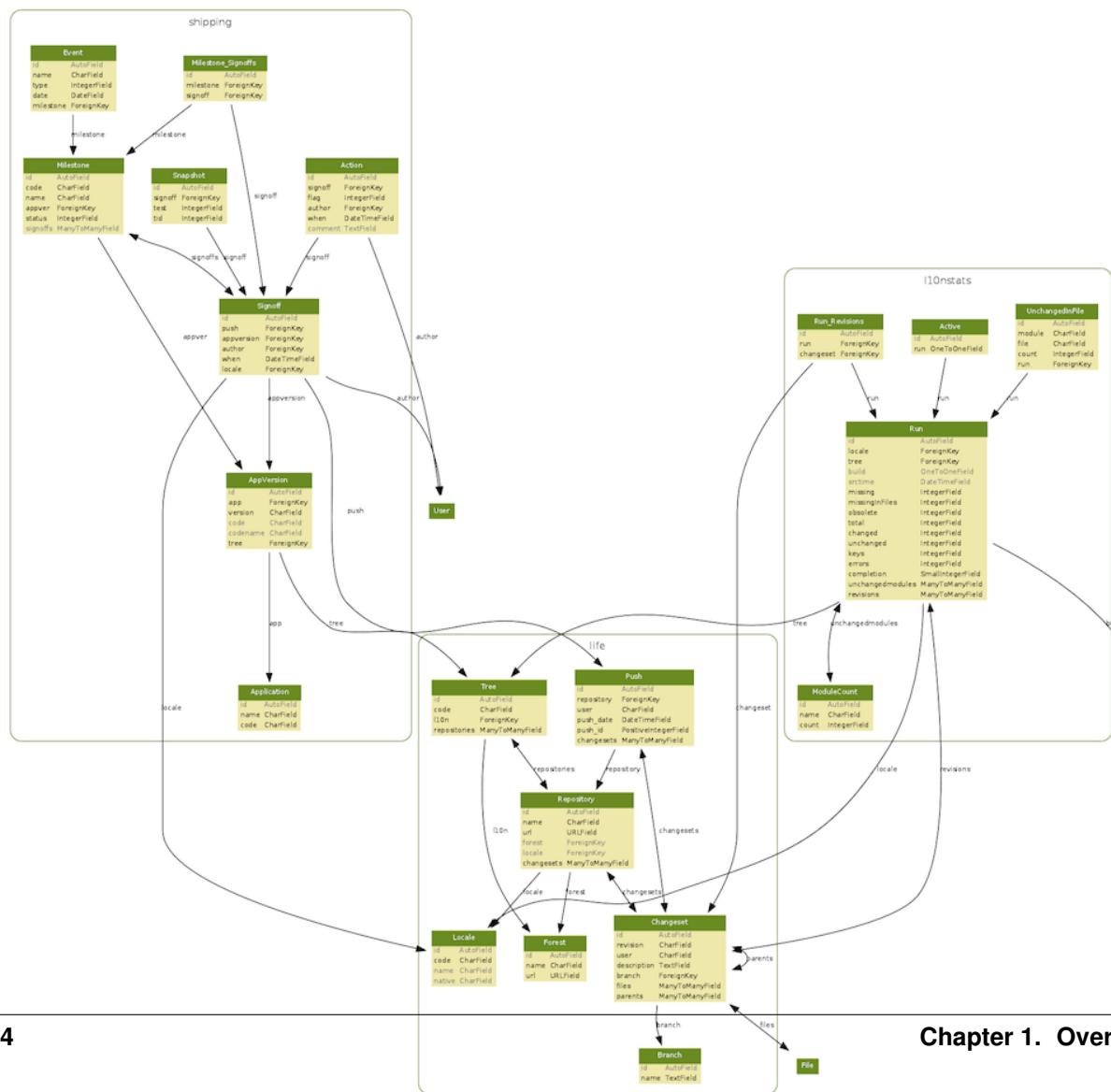This documentation is about the elmo django application and how it works and why it works like it works.

All code is available here: https://github.com/mozilla/elmo

The production is available here: https://l10n-stage-sj.mozilla.org/

Contents:

CHAPTER 1

Overview

shipping

Event
id AutoField
name CharField
type IntegerField
date DateField
milestone ForeignKey

Milestone_Signoffs
id AutoField
milestone ForeignKey
signoff ForeignKey

Milestone
id AutoField
code CharField
name CharField
appver ForeignKey
status IntegerField
signoffs ManyToManyField

Snapshot
id AutoField
signoff ForeignKey
test IntegerField
tid IntegerField

Action
id AutoField
signoff ForeignKey
flag IntegerField
author ForeignKey
when DateTimeField
comment TextField

Signoff
id AutoField
push ForeignKey
appversion ForeignKey
author ForeignKey
when DateTimeField
locale ForeignKey

AppVersion
id AutoField
app ForeignKey
version CharField
code CharField
codename CharField
tree ForeignKey

Application
id AutoField
name CharField
code CharField

l10nstats

Run_Revisions
id AutoField
run ForeignKey
changeset ForeignKey

Active
id AutoField
run OneToOneField

UnchangedInFile
id AutoField
module CharField
file CharField
count IntegerField
run ForeignKey

Run
id AutoField
locale ForeignKey
tree ForeignKey
build OneToOneField
srctime DateTimeField
missing IntegerField
missingInFiles IntegerField
obsolete IntegerField
total IntegerField
changed IntegerField
unchanged IntegerField
keys IntegerField
errors IntegerField
completion SmallIntegerField
unchangedmodules ManyToManyField
revisions ManyToManyField

ModuleCount
id AutoField
name CharField
count IntegerField

Build

life

Tree
id AutoField
code CharField
l10n ForeignKey
repositories ManyToManyField

Push
id AutoField
repository ForeignKey
user CharField
push_date DateTimeField
push_id PositiveIntegerField
changesets ManyToManyField

Repository
id AutoField
name CharField
url URLField
forest ForeignKey
locale ForeignKey
changesets ManyToManyField

Locale
id AutoField
code CharField
name CharField
native CharField

Forest
id AutoField
name CharField
url URLField

Changeset
id AutoField
revision CharField
user CharField
description TextField
branch ForeignKey
files ManyToManyField
parents ManyToManyField

Branch
id AutoField
name TextField

File

User

(image originally from http://people.mozilla.org/~axel/all.svg)

As you can see in this database diagram, Elmo consists of 3 major parts:

- *Life*

- *Shipping*

- *L10nstats*

Their names imply what they each do and deal with. There are other various tools that aren't directly part of these major apps but are also important. For example, the privacy app (TODO: figure out whether to bother documenting this).

Basically the whole database model is based around the structure that is used in Mozilla to develop Firefox, Thunderbird, etc. but instead of source code to the running programs, it's definition files containing translatable strings. An example of a translatable string file can for example look like this:

```
<!-- Tab context menu -->
<!ENTITY  reloadTab.label                "Oppdater fane">
<!ENTITY  reloadTab.accesskey            "O">
<!ENTITY  reloadAllTabs.label            "Oppdater alle fanene">
<!ENTITY  reloadAllTabs.accesskey        "d">
<!ENTITY  closeOtherTabs.label           "Lat att andre faner">
<!ENTITY  closeOtherTabs.accesskey       "a">
```

(this is the Norwegian (nn-NO) source for browser.dtd)

CHAPTER 2

Life

life is the app that defines the most fundamental models of elmo. It basically reflects the state of translation work done and to be done. All other applications depend on this app for interactions.

Let's delve into some of the key models:

Locale

Key fields:

- `code` - e.g. "nn-NO"
- `name` - e.g. "Norweigian (Nynorsk)"
- `native` - e.g. "Norsk nynorsk"

Every repository and every shipping signoff references a locale. It's

Changeset

Key fields:

- `revision` - e.g. "9b2a99adc05e53cd4010de512f50118594756650"
- (TODO: any more "key" fields here?)

Shipping

L10nstats

CHAPTER 5

Indices and tables

- genindex
- modindex
- search

L

O

S