

DJANGO

Django hi python web framework a ni a , website siam tur a kan mamawh zawng zawng deuhthaw chu django hman hian a siam theih a ni. Django 3 hi tuna stable version kan hman nasat em em chu a ni a, **python3** hman a duan a ni. Django hian website siam a ti awlsam em em a, a hranpa a database language query complex tak tak hman kher lo in awlsam takin django hman hian chung database query te chu a tih theih a ni.

Django hian **MVT (Model View Template)** architecture a hman a, chumi awmzia ah chuan code hrang hrang kha hmun thum velah mumal tak a dah hran vek a ni tihna a ni.

Object-relational mapper

Django hian object relational mapper technique chu hman tangkai in database a table kan siam ngai thin chu python code ho te in kan siam thei ta tihna a ni. Hei hian code ziah nawn tluk tluk leh security lama issue kan hmuh theih chu a ti tlem a , hriatthiam awlsam takin database ah table leh values kan dah lut thei ta tihn a ni.

```
class Band(models.Model):
```

```
    """A model of a rock band."""
```

```
    name = models.CharField(max_length=200)
```

```
    can_rock = models.BooleanField(default=True)
```

A chung a kan tarlan hman hian database ah chuan Band tih table a siam a nga, attributes ah name leh can_rock tih te hi a nei dawn a ni. Model te hian unique id an nei vek a , primary key pawh a hranpa a define kher a ngai lo tihna a ni deuh ber.

Urls leh Views

Website hman awlsam leh felfai tak siam tur chuan Url scheme felfai tak siam hi a pawimawh em em a. Django hian awlsam takin url felfai tak a siam thei a, chung chu urls.py tih ah kan dah thin a ni.

```
from django.urls import path
```

```
from . import views
```

```
urlpatterns = [
```

```
    path('bands/', views.band_listing, name='band-list'),
```

```
    path('bands/<int:band_id>/', views.band_detail, name='band-detail'),
```

```
    path('bands/search/', views.band_search, name='band-search'),
```

```
]
```

Views ve thung hi chuan url te atanga kan request dawn te kan lo sawngbawl dan tur kha a duang leh a, a chung a kan tarlan url khi browser a kan type luh chuan views.band_listing tih emaw url dang kan type a zirin views.py tih chhunga mi fucnction te chu a call a nga, chumi chuan function a execute leh thin a , chumi atang chuan page a rawn lang tur kha a rawn duang thin ta a ni.

```

from django.shortcuts import render

def band_listing(request):

    """A view of all bands."""

    bands = models.Band.objects.all()

    return render(request, 'bands/band_listing.html', {'bands': bands})

```

Templates

Templates kan tih te hi .html file te an ni tlangpui a, views.py chhunga kan function call te a zirin khimi template ho khi a rawn vawrh chhuak dawn a ni. Hei hian awlsam takin query te chu html template kan design ah te chuan a rawn pholang a, hmun khata thil tih vek ai khan hmun dangah efficient zawkin code hi kan thendarh ta a ni.

```

<html>

<head>

    <title>Band Listing</title>

</head>

<body>

    <h1>All Bands</h1>

    <ul>

        {% for band in bands %}

            <li>

                <h2><a href="{{ band.get_absolute_url }}">{{ band.name }}</a></h2>

                {% if band.can_rock %}<p>This band can rock!</p>{% endif %}

            </li>

        {% endfor %}

    </ul>

</body>

</html>

```

