**import** pytz  
  
user\_timezone = session.plugin\_timezone\_tx **or 'UTC'***# -\*- coding: utf-8 -\*-  
  
# -------------------------------------------------------------------------  
# This scaffolding model makes your app work on Google App Engine too  
# File is released under public domain and you can use without limitations  
# -------------------------------------------------------------------------***if** request.global\_settings.web2py\_version < **"2.14.1"**:  
 **raise** HTTP(500, **"Requires web2py 2.13.3 or newer"**)  
  
*# -------------------------------------------------------------------------  
# if SSL/HTTPS is properly configured and you want all HTTP requests to  
# be redirected to HTTPS, uncomment the line below:  
# -------------------------------------------------------------------------  
# request.requires\_user\_timezonehttps()  
  
# -------------------------------------------------------------------------  
# app configuration made easy. Look inside private/appconfig.ini  
# -------------------------------------------------------------------------***from** gluon.contrib.appconfig **import** AppConfig  
  
*# -------------------------------------------------------------------------  
# once in production, remove reload=True to gain full speed  
# -------------------------------------------------------------------------*myconf = AppConfig(reload=True)  
  
**if not** request.env.web2py\_runtime\_gae:  
 *# ---------------------------------------------------------------------  
 # if NOT running on Google App Engine use SQLite or other DB  
 # ---------------------------------------------------------------------* db = DAL(myconf.get(**'db.uri'**),  
 pool\_size=myconf.get(**'db.pool\_size'**),  
 migrate\_enabled=myconf.get(**'db.migrate'**),  
 check\_reserved=[**'all'**])  
**else**:  
 *# ---------------------------------------------------------------------  
 # connect to Google BigTable (optional 'google:datastore://namespace')  
 # ---------------------------------------------------------------------* db = DAL(**'google:datastore+ndb'**)  
 *# ---------------------------------------------------------------------  
 # store sessions and tickets there  
 # ---------------------------------------------------------------------* session.connect(request, response, db=db)  
 *# ---------------------------------------------------------------------  
 # or store session in Memcache, Redis, etc.  
 # from gluon.contrib.memdb import MEMDB  
 # from google.appengine.api.memcache import Client  
 # session.connect(request, response, db = MEMDB(Client()))  
 # ---------------------------------------------------------------------  
  
# -------------------------------------------------------------------------  
# by default give a view/generic.extension to all actions from localhost  
# none otherwise. a pattern can be 'controller/function.extension'  
# -------------------------------------------------------------------------*response.generic\_patterns = [**'\*'**] **if** request.is\_local **else** []  
*# -------------------------------------------------------------------------  
# choose a style for forms  
# -------------------------------------------------------------------------*response.formstyle = myconf.get(**'forms.formstyle'**) *# or 'bootstrap3\_stacked' or 'bootstrap2' or other*response.form\_label\_separator = myconf.get(**'forms.separator'**) **or ''***# -------------------------------------------------------------------------  
# (optional) optimize handling of static files  
# -------------------------------------------------------------------------  
# response.optimize\_css = 'concat,minify,inline'  
# response.optimize\_js = 'concat,minify,inline'  
  
# -------------------------------------------------------------------------  
# (optional) static assets folder versioning  
# -------------------------------------------------------------------------  
# response.static\_version = '0.0.0'  
  
# -------------------------------------------------------------------------  
# Here is sample code if you need for  
# - email capabilities  
# - authentication (registration, login, logout, ... )  
# - authorization (role based authorization)  
# - services (xml, csv, json, xmlrpc, jsonrpc, amf, rss)  
# - old style crud actions  
# (more options discussed in gluon/tools.py)  
# -------------------------------------------------------------------------***from** gluon.tools **import** Auth, Service, PluginManager  
  
*# host names must be a list of allowed host names (glob syntax allowed)*auth = Auth(db, host\_names=myconf.get(**'host.names'**))  
service = Service()  
plugins = PluginManager()  
  
*# -------------------------------------------------------------------------  
# create all tables needed by auth if not custom tables  
# -------------------------------------------------------------------------*auth.define\_tables(username=False, signature=False)  
  
*# -------------------------------------------------------------------------  
# configure email  
# -------------------------------------------------------------------------*mail = auth.settings.mailer  
mail.settings.server = **'logging' if** request.is\_local **else** myconf.get(**'smtp.server'**)  
mail.settings.sender = myconf.get(**'smtp.sender'**)  
mail.settings.login = myconf.get(**'smtp.login'**)  
mail.settings.tls = myconf.get(**'smtp.tls'**) **or** False  
mail.settings.ssl = myconf.get(**'smtp.ssl'**) **or** False  
  
*# -------------------------------------------------------------------------  
# configure auth policy  
# -------------------------------------------------------------------------*auth.settings.registration\_requires\_verification = False  
auth.settings.registration\_requires\_approval = False  
auth.settings.reset\_password\_requires\_verification = True  
  
*# -------------------------------------------------------------------------  
# Define your tables below (or better in another model file) for example  
#  
# >>> db.define\_table('mytable', Field('myfield', 'string'))  
#  
# Fields can be 'string','text','password','integer','double','boolean'  
# 'date','time','datetime','blob','upload', 'reference TABLENAME'  
# There is an implicit 'id integer autoincrement' field  
# Consult manual for more options, validators, etc.  
#  
# More API examples for controllers:  
#  
# >>> db.mytable.insert(myfield='value')  
# >>> rows = db(db.mytable.myfield == 'value').select(db.mytable.ALL)  
# >>> for row in rows: print row.id, row.myfield  
# -------------------------------------------------------------------------  
  
# -------------------------------------------------------------------------  
# after defining tables, uncomment below to enable auditing  
# -------------------------------------------------------------------------  
# auth.enable\_record\_versioning(db)*db.define\_table(**'medicines'**,  
 Field(**'medicine\_name'**, **'string'**, length=40, required=True),  
 format = **'%(medicine\_name)s'**,  
 )  
  
db.define\_table(**'events'**,  
 Field(**'event\_time'**, **'datetime'**, default = request.now, update = request.now,  
 requires=IS\_DATETIME(format=(**'%m-%d-%Y %H:%M'**), timezone=pytz.timezone(user\_timezone))),  
 Field(**'event\_type'**, **'string'**, requires=IS\_IN\_SET([**''**, **'Blood Pressure'**, **'Headache'**, **'Medicine'**, **'Mood'**, **'Nausea'**,  
 **'Pain'**, **'Sleep Duration'**, **'Stool'**, **'Weight'**]), default=**''**),  
 Field(**'event\_level'**, **'string'**, requires=IS\_EMPTY\_OR(IS\_IN\_SET([**''**, **'0 - Pain Free'**, **'1 - Minor Annoyance'**, **'2 - Moderate Annoyance'**, **'3 - Distracting'**,  
 **'4- Can Be Ignored'**, **'5 - Unable To Ignore'**, **'6 - Difficult To Focus'**, **'7 - Unable To Sleep'**,  
 **'8 - Physical Activity Severely Limited'**, **'9 - Almost Unbearable'**, **'10 - Unbearable'**])),  
 default=**''**, represent=**lambda** v, r: **'' if** v **is** None **else** v),  
 Field(**'bristol\_scale'**, **'string'**, requires=IS\_EMPTY\_OR(IS\_IN\_SET([**''**, **'Type 1 - Separate hard lumps'**, **'Type 2 - Lumpy and sausage like'**,  
 **'Type 3 - A sausage shape with cracks in the surface'**, **'Type 4 - Like a smooth, soft sausage'**,  
 **'Type 5 - Soft blobs with clear-cut edges'**, **'Type 6 - Mushy consistency with ragged edges'**,  
 **'Type 7 - Liquid consistency with no solid pieces'**])), default=**''**, represent=**lambda** v, r: **'' if** v **is** None **else** v),  
 Field(**'systolic'**, **'integer'**, length=3, required=False, represent=**lambda** v, r: **'' if** v **is** 0 **else** v),  
 Field(**'diastolic'**, **'integer'**, length=3, required=False, represent=**lambda** v, r: **'' if** v **is** 0 **else** v),  
 Field(**'pulse'**, **'integer'**, length=3, required=False, represent=**lambda** v, r: **'' if** v **is** 0 **else** v),  
 Field(**'medicine'**, **'reference medicines'**, requires = IS\_EMPTY\_OR(IS\_IN\_DB(db, db.medicines.id, **'%(medicine\_name)s'**)), represent=**lambda** v, r: **'' if** v **is** None **else** v.medicine\_name),  
 Field(**'dosage'**, **'string'**, length=10, required=False, default=**''**, represent=**lambda** v, r: **'' if** v **is** None **else** v),  
 Field(**'lbs'**, **'double'**, required=False, represent=**lambda** v, r: **'' if** v **is** 0.00 **else** v),  
 Field(**'duration'**, **'string'**, requires=IS\_EMPTY\_OR(IS\_IN\_SET([**''**, **':15'**, **':30'**, **':45'**, **'1:00'**, **'1:15'**, **'1:30'**, **'1:45'**, **'2:00'**, **'2:15'**, **'2:30'**, **'2:45'**, **'3:00'**,  
 **'3:15'**, **'3:30'**, **'3:45'**, **'4:00'**, **'4:15'**, **'4:30'**, **'4:45'**, **'5:00'**, **'5:15'**, **'5:30'**, **'5:45'**, **'6:00'**,  
 **'6:15'**, **'6:30'**, **'6:45'**, **'7:00'**, **'7:15'**, **'7:30'**, **'7:45'**, **'8:00'**, **'All Day'**])), default=**''**,  
 represent=**lambda** v, r: **'' if** v **is** None **else** v),  
 Field(**'note'**, **'text'**, required=False, default=**''**, represent=**lambda** v, r: **'' if** v **is** None **else** v)  
 )  
  
db.medicines.id.readable = False  
db.events.id.readable = False