

< Return to Classroom

Fyyur: Artist Booking Site

REVIEW CODE REVIEW 7 HISTORY ▼ арр.ру 5 import json 6 import dateutil.parser 7 import babel g from flask import Flask, render_template, request, Response, flash, redirect, url_for 9 import logging 10 from logging import Formatter, FileHandler 11 from flask_wtf import Form 12 from forms import 13 from Models import * AWESOME The code organization implements some separation of concerns by splitting your endpoint and model processing. This strat will always exercise; implementing modules help you document, reuse & test your functionalities. If you need to implement a new model or change an existing one, it will be easier having them on a dedicated codebase rati single file. To see more details and insights around this practice, you can check this Python handbook. 16 # correcting a BUG that occurs on dateutil parser collection 17 #-----18 import collections 19 collections.Callable = collections.abc.Callable # End correcting a BUG 23 --24 #-----# 25 # App Config. 26 #---27 29 30 $_{32}$ # Filters. 33 #----35 def format_datetime(value, format='medium'): print("++++++++") 36 print("value "+value) date = dateutil.parser.parse(value) Rate this review print("Date "+str(date))
if format == 'full': START format="EEEE MMMM, d, y 'at' h:mma" 41 elif format == 'medium': 42 format="EE MM, dd, y h:mma" 43 return babel.dates.format_datetime(date, format, locale='en')

```
45
46 app.jinja_env.filters['datetime'] = format_datetime
47
49 # Controllers.
50 #-----#
51
   @app.route('/')
52
def index():
    return render template('pages/home.html')
54
55
56
57 # Venues
58 #
59 # Looking at the data provided with the question it appears that we need to
60 # pull all venues and then pull all shows and then rearrange the venue based on city,
_{61} # and do a count on the number of upcoming shows.
64 @app.route('/venues')
65 def venues():
      data =[]
66
      current_date = datetime.now()
67
      venues = Venue.query.all()
68
      unique_venues = set()
69
70
      for venue in venues:
         unique_venues.add((venue.city, venue.state))
71
      for everylocation in unique_venues:
72
         data.append({"city": everylocation[0], "state": everylocation[1], "venues": []})
73
      for venue in venues:
74
          num_upcoming_shows = 0
75
          shows = Show.query.filter_by(venue_id=venue.id).all()
76
```

REQUIRED

Your code does not make usage of JOIN statement

One of the challenges of this project is using | JOIN | statements to fetch related data based on a foreign key strategy; This is complex and efficient data models. Sure, you can acquire the same data by performing finds and iterating over the results, this will prevent your application from scaling when your dataset or number of users grows.

There are several types of join to associate tables based on the goals you need to achieve. I recommend the following article subject:

- 1. SQL JOIN initial documentation
- 2. Different JOIN strategies explained with visuals

```
for show in shows:
                 if show.start_time > current_date:
 78
                     num upcoming shows += 1
             for dataitem in data:
 80
                 if venue.state == dataitem['state'] and venue.city == dataitem['city']:
 81
                     dataitem['venues'].append({"id": venue.id,"name": venue.name,"num_upcoming_shows": nu
 82
        return render_template('pages/venues.html', areas=data);
 83
 84
 85 @app.route('/venues/search', methods=['POST'])
 86 def search_venues():
        search_term = request.form.get('search_term', '')
 87
        search_termlocal = '%{0}%'.format(search_term)
 88
        result = Venue.query.filter(Venue.name.ilike(search_termlocal))
response={ "count": result.count(),"data": result }
 89
 90
        return render_template('pages/search_venues.html', results=response, search_term=search_term)
 91
 92
 93
 94 @app.route('/venues/<int:venue_id>')
 95 def show_venue(venue_id):
        venue = Venue.query.get(venue_id)
 96
        listofshows=Show.query.filter_by(venue_id=venue_id).all()
 97
        nextshowlist=[]
98
        prevshowlist=[]
99
        current_date = datetime.now()
100
        for show_listitem in listofshows:
101
            artist = Artist.query.get(show_listitem.artist_id)
102
             showDictionaryItem ={
103
                                                                                                            Rate this review
                 "artist_id": show_listitem.artist_id,
104
                 "artist_name": artist.name,
105
                 "artist_image_link": artist.image_link,
"start_time": format_datetime(str(show_listitem.start_time))
106
                                                                                                                START
107
             if(show_listitem.start_time>current_date):
108
                 nextshowlist.append(showDictionaryItem)
110
```

```
else:
111
                 prevshowlist.append(showDictionaryItem)
112
113
        venuedictionary={
114
             "id": venue.id,
115
             "name": venue.name,
116
             "genres": venue.genres,
117
             "address": venue.address,
112
            "city": venue.city,
"state": venue.state,
119
120
             "phone": venue.phone,
121
             "website link": venue.website link,
122
             "facebook_link": venue.facebook_link,
"seeking_talent": venue.seeking_talent,
123
124
             "seeking_description":venue.seeking_description,
125
             "image_link": venue.image_link,
126
             "past_shows": prevshowlist,
127
             "upcoming_shows": nextshowlist,
128
             "past_shows_count": len(prevshowlist),
129
             "upcoming_shows_count": len(nextshowlist)
130
131
        return render_template('pages/show_venue.html', venue=venuedictionary)
132
133
134 #
       Create Venue
135 #
136
137 @app.route('/venues/create', methods=['GET'])
138 def create_venue_form():
      form = VenueForm()
139
      return render_template('forms/new_venue.html', form=form)
140
141
142 @app.route('/venues/create', methods=['POST'])
143 def create_venue_submission():
        error = False
144
        try:
145
             form = VenueForm()
146
             venue = Venue(name=form.name.data, city=form.city.data, state=form.state.data,
147
                         address=form.address.data,phone=form.phone.data, image_link=form.image_link.data,
148
                         genres=form.genres.data, facebook_link=form.facebook_link.data, seeking_descripti
1/19
                         website_link=form.website_link.data, seeking_talent=form.seeking_talent.data)
150
            db.session.add(venue)
151
            db.session.commit()
152
        except:
153
            db.session.rollback()
154
             print(sys.exc_info())
155
             error=True
156
        finally:
157
            db.session.close()
158
```

AWESOME

The session is always closed after manipulation; this is similar to turning off the lights/equipment after you stop using them

Obviously, if we think about one or two connections laying around, the impact wouldn't be huge. Still, considering scalable a open hundreds or thousands of connections, it is crucial to control that. A careful engineer can save money and collaborate application runtime by doing so.

Some technologies are somewhat more intelligent and can close the connections automatically, mitigating that issue. Still, I analyzing if that's the case. Check out below some cool articles:

- 1. AWS Postgres memory leak investigation
- 2. Google MySQL connection management
- 3. Three-tier application connection management architecture

```
if not error:
159
                  # on successful db insert, flash success
160
                  flash('Venue ' + request.form['name'] + ' was successfully listed!')
161
                  return render_template('pages/home.html')
162
163
                flash('An error occurred. Venue ' + request.form['name'] + ' could not be listed.')
164
                abort (400)
165
166
167
168
169 @app.route('/venues/<venue_id>', methods=['DELETE'])
170 def delete_venue(venue_id):
                                                                                                     Rate this review
171
        venue = Venue.query.get(venue_id)
172
                                                                                                          START
        venue_name = venue.name
173
        db.session.delete(venue)
174
        db.session.commit()
        flash('Venue ' + venue_name + ' deleted successfully')
175
177
```

```
flash('an error occured while deleting Venue ' + venue_name)
178
         db.session.rollback()
179
       finally:
180
        dh.session.close()
181
       return None
182
183
184 # Artists
185 # -----
186 @app.route('/artists')
187 def artists():
     artists = Artist.guery.all()
188
189
      data=[]
      for artist in artists:
190
           data.append({
191
           "id": artist.id,
192
           "name": artist.name
193
194
      return render_template('pages/artists.html', artists=data)
195
196
197 @app.route('/artists/search', methods=['POST'])
198 def search_artists():
         search_term = request.form.get('search_term', '')
199
         search_termlocal = '%{0}%'.format(search_term)
200
         artists = Artist.query.filter(Artist.name.ilike(search_termlocal)).all()
201
 AWESOME
Using ilike allows the query to be case-insensitive; kudos for that!
It seems such a small thing, but it is deeply connected to the User Experience of your application.
         current date = datetime.now()
202
         artistdata =[]
203
         for artist in artists:
204
             listofshows=Show.query.filter_by(artist_id=artist.id).all()
205
             num_upcoming_shows = 0
206
             for show in listofshows:
207
                  if show.start time > current date:
208
                      num_upcoming_shows+=1
209
             artistdata.append({"id":artist.id, "name":artist.name, "num_upcoming_shows":num_upcoming_show
210
211
         countofartists=0
         if len(artists):
212
             countofartists = len(artists)
213
         response={"count":countofartists, "data":artistdata}
214
         return render_template('pages/search_artists.html', results=response, search_term=search_term)
215
216
217
218 @app.route('/artists/<int:artist_id>')
219 def show_artist(artist_id):
         artist = Artist.query.get(artist_id)
220
         listofshows=Show.query.filter_by(artist_id=artist_id).all()
221
         nextshowlist=[]
222
         prevshowlist=[]
223
         current_date = datetime.now()
224
         for show_listitem in listofshows:
225
             venue = Venue.query.get(show_listitem.venue_id)
226
             showDictionaryItem ={
227
                  "venue_id": show_listitem.venue_id,
228
                  "venue_name": venue.name,
229
                  "venue_image_link": venue.image_link,
"start_time": format_datetime(str(show_listitem.start_time))
230
231
232
             if(show_listitem.start_time>current_date):
233
                  nextshowlist.append(showDictionaryItem)
234
                 prevshowlist.append(showDictionaryItem)
236
         artistdictionary={
237
             "id": artist.id,
238
             "1d": artist.ld,
"name": artist.name,
"genres": artist.genres,
"city": artist.city,
"state": artist.state,
"phone": artist.phone,
239
240
241
242
243
             "facebook_link": artist.facebook_link,
"seeking_venue": artist.seeking_venue,
244
245
             "seeking_description": artist.seeking_description,
246
              "website_link": artist.website_link,
247
             "image_link": artist.image_link,
"past_shows": prevshowlist,
248
249
                                                                                                               Rate this review
             "upcoming_shows": nextshowlist,
"past_shows_count": len(prevshowlist),
250
251
             "upcoming_shows_count": len(nextshowlist)
                                                                                                                    START
252
253
         return render_template('pages/show_artist.html', artist=artistdictionary)
254
256 # Update
```

```
257 # -----
258 @app.route('/artists/<int:artist_id>/edit', methods=['GET'])
259 def edit_artist(artist_id):
     form = ArtistForm()
      artist = Artist.query.get(artist_id)
261
     artist_data = {
    "id": artist.id,
    "name": artist.name,
    "genres": artist.genres,
262
263
264
265
             "city": artist.city,
266
             "state": artist.state,
267
             "phone": artist.phone,
268
             "facebook_link": artist.facebook_link,
269
             "website_link":artist.website_link,
270
             "seeking_venue":artist.seeking_venue,
271
             "seeking_description": artist.seeking_description,
272
             "image_link": artist.image_link
273
274
      return render_template('forms/edit_artist.html', form=form, artist=artist_data)
275
276
277 @app.route('/artists/<int:artist_id>/edit', methods=['POST'])
278 def edit_artist_submission(artist_id):
      try:
279
          form = ArtistForm()
280
          artist = Artist.query.get(artist id)
281
          artist.name = form.name.data
282
          artist.phone = form.phone.data
283
          artist.state = form.state.data
284
          artist.city = form.city.data
285
          artist.genres = form.genres.data
286
          artist.facebook_link = form.facebook_link.data
287
          artist.website_link = form.website_link.data
288
          artist.seeking venue = form.seeking venue.data
289
          artist.seeking_description = form.seeking_description.data
290
          artist.image_link = form.image_link.data
291
292
          db.session.commit()
          flash('Artist ' + request.form['name'] + ' is updated')
293
294
          db.session.rolback()
295
           flash('update failed for artist ' + request.form['name'] )
296
297
      finally:
          db.session.close()
298
      return redirect(url_for('show_artist', artist_id=artist id))
299
300
    @app.route('/venues/<int:venue_id>/edit', methods=['GET'])
301
302 def edit_venue(venue_id):
      form = VenueForm()
303
      venue = Venue.query.get(venue id)
304
      venue_data={
305
        "id": venue.id,
"name": venue.name,
306
307
        "genres": venue.genres,
"address": venue.address,
308
309
        "city": venue.city,
"state": venue.state,
310
311
        "phone": venue.phone,
312
        "website_link": venue.website_link,
"facebook_link": venue.facebook_link,
313
314
         "seeking_talent": venue.seeking_talent,
315
         "seeking_description": venue.seeking_description,
316
        "image_link": venue.image_link
317
318
      return render_template('forms/edit_venue.html', form=form, venue=venue_data)
319
320
321 @app.route('/venues/<int:venue_id>/edit', methods=['POST'])
    def edit_venue_submission(venue_id):
    name=""
322
323
324
          form = VenueForm()
325
          venue = Venue.query.get(venue id)
326
          name = form.name.data
327
          venue.name = form.name.data
328
          venue.genres = form.genres.data
329
330
          venue.city = form.city.data
          venue.state = form.state.data
331
          venue.address = form.address.data
332
          venue.phone = form.phone.data
333
          venue.facebook_link = form.facebook_link.data
334
          venue.website link = form.website link.data
335
          venue.image_link = form.image_link.data
336
          venue.seeking_talent = form.seeking_talent.data
337
          venue.seeking_description = form.seeking_description.data
                                                                                                          Rate this review
338
          db.session.commit()
339
          flash('Venue ' + name + ' is updated')
340
                                                                                                               START
      except:
341
          db.session.rollback()
342
           flash('update failed for venue ' + name )
343
      finally:
344
```

```
db.session.close()
345
      return redirect(url for('show venue', venue id=venue id))
346
347
348 # Create Artist
349 #
350
351 @app.route('/artists/create', methods=['GET'])
352 def create_artist_form():
      form = ArtistForm()
353
      return render template('forms/new artist.html', form=form)
354
355
356 @app.route('/artists/create', methods=['POST'])
357 def create_artist_submission():
358
          form = ArtistForm()
359
          artist = Artist(
360
                        name=form.name.data,
361
                         city=form.city.data,
362
                         state=form.city.data,
363
                         phone=form.phone.data,
364
                         genres=form.genres.data
365
                         image_link=form.image_link.data,
366
                         seeking_venue = form.seeking_venue.data,
367
                         seeking_description=form.seeking_description.data,
368
                         website link= form.website link.data,
369
                         facebook link=form.facebook link.data
370
371
          db.session.add(artist)
372
          db.session.commit(
373
          # on successful db insert, flash success
374
          flash('Artist ' + request.form['name'] + ' was successfully listed!')
375
      except:
376
        db.session.rollback()
377
        flash('An error occurred. Artist ' + request.form['name'] + ' could not be listed.')
378
      finally:
379
380
        db.session.close()
      return render_template('pages/home.html')
381
382
383
384 #
      Shows
385 #
386
387 @app.route('/shows')
388 def shows()
        listofshows = []
389
        shows = Show.query.order_by(db.desc(Show.start_time))
390
        for show in shows:
391
          listofshows.append({
392
             "venue_id": show.venue_id,
393
            "venue_name": show.venue.name,
394
            "artist_id": show.artist_id,
395
            "artist_name": show.artist.name,
"artist_image_link": show.artist.image_link,
396
397
            "start_time": format_datetime(str(show.start_time))
398
399
        return render template('pages/shows.html', shows=listofshows)
400
401
402 @app.route('/shows/create')
403 def create_shows()
      # renders form. do not touch.
404
405
      return render_template('forms/new_show.html', form=form)
406
407
408 @app.route('/shows/create', methods=['POST'])
409 def create_show_submission():
        try:
410
            show = Show(artist_id=request.form['artist_id'], venue_id=request.form['venue_id'],start_time
411
            db.session.add(show)
412
            db.session.commit()
413
            flash('Show was successfully listed!')
414
        except:
415
            db.session.rollback()
416
            flash('An error occurred. Show could not be listed.')
417
418
        finally:
            db.session.close()
419
        return render_template('pages/home.html')
420
421
422 @app.errorhandler(404)
def not_found_error(error):
        return render_template('errors/404.html'), 404
424
425
426 @app.errorhandler(500)
                                                                                                      Rate this review
427 def server_error(error):
        return render_template('errors/500.html'), 500
428
                                                                                                           START
429
430
431 if not app.debug:
        file_handler = FileHandler('error.log')
```

```
file_handler.setFormatter(
 433
            Formatter('%(asctime)s %(levelname)s: %(message)s [in %(pathname)s:%(lineno)d]')
 434
 435
        app.logger.setLevel(logging.INFO)
 436
        file_handler.setLevel(logging.INFO)
app.logger.addHandler(file_handler)
 437
 438
        app.logger.info('errors')
 439
 440
 \frac{1}{442} # Launch.
 445 # Default port:
446 if __name__ == '__main__':
        app.run()
 447
 448
 _{449}^{\circ} # Or specify port manually:
 450
 453
 454
 455
▶ Models.py
▶ config.py
▶ fabfile.py
▶ forms.py
▶ migrations/env.py
▶ migrations/README
migrations/versions/092c81e0ae06_initial_database_creation.py
▶ migrations/versions/c7d504feae69_added_all_models.py
migrations/versions/dc594c07605c_added_website_to_artists.py
▶ migrations/versions/e4a166de4cb9_added_fields_to_artist.py
▶ README.md
▶ requirements.txt
▶ static/css/bootstrap.css
▶ static/css/bootstrap.min.css
▶ static/css/bootstrap.min.js
▶ static/css/bootstrap-theme.css
▶ static/css/bootstrap-theme.min.css
                                                                                            Rate this review
▶ static/css/layout.forms.css
```

▶ static/css/layout.main.css

START

▶ static/css/main.css	
▶ static/css/main.quickfix.css	
▶ static/css/main.responsive.css	
▶ static/js/libs/bootstrap-3.1.1.min.js	
▶ static/js/libs/jquery-1.11.1.min.js	
▶ static/js/libs/modernizr-2.8.2.min.js	
▶ static/js/libs/moment.min.js	
▶ static/js/libs/respond-1.4.2.min.js	
▶ static/js/plugins.js	
▶ static/js/script.js	
▶ templates/errors/404.html	
▶ templates/errors/500.html	
▶ templates/forms/edit_artist.html	
▶ templates/forms/edit_venue.html	
▶ templates/forms/new_artist.html	
▶ templates/forms/new_show.html	
▶ templates/forms/new_venue.html	
▶ templates/layouts/form.html	
▶ templates/layouts/main.html	
▶ templates/pages/artists.html	
▶ templates/pages/home.css	
▶ templates/pages/home.html	
▶ templates/pages/search_artists.html	
▶ templates/pages/search_venues.html	
▶ templates/pages/show.html	
▶ templates/pages/show_artist.html	Rate this review
▶ templates/pages/show_venue.html	START

▶ templates/pages/shows.html

▶ templates/pages/venues.html

RETURN TO PATH

Rate this review

START