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1  from app import app, helper_functions, socketio, form_submissions, database_helpers
2  from app.models import *
3  from werkzeug.security import generate_password_hash, check_password_hash
4  from flask import redirect, render_template, request, session, url_for, abort, g, flash
5  from random import shuffle
6  from datetime import datetime
7  from sqlalchemy import and_, or_
8
9  CATEGORIES = ['All', 'Textbooks', 'Furniture', 'Food', 'Events', 'Software',
10 'Electronics',
11 'Beauty and Personal Care', 'Clothes', 'School Supplies', 'Appliances']
12 CONTACT_METHOD = {
13     "email": "Email (university provided)",
14     "phonenumber": "Phone Number (if provided)",
15     "personalemail": "Personal Email (if provided)"
16 }
17
18 # forces logout on browser close(); aka senses packets have stopped flowing
19 @socketio.on('disconnect')
20 def disconnect_user():
21     logout()
22
23 #####
24 # ROUTES START HERE
25 #####
26 # Log the user out
27 @app.route('/logout')
28 def logout():
29     session.pop('userid', None)
30     return redirect(url_for('login'))
31
32 # Run at the beginning of each request before functions run to check if logged in
33 @app.before_request
34 def request_authentication():
35     g.user = None
36     if 'userid' in session:
37         g.user = User.query.filter_by(userid=session['userid']).first()
38
39 ### ERROR HANDLING PAGES
40 @app.route('/error')
41 def not_found_error_item():
42     return render_template('404.html'), 404
43
44 @app.errorhandler(404)
45 def not_found_error(error):
46     return render_template('404.html'), 404
47
48 @app.errorhandler(500)
49 def internal_error(error):
50     db.session.rollback()
51     return render_template('500.html'), 500
52
53 @app.route('/')
54 def slash_redirect():
55     return redirect(url_for('login'))
56
57 ##### LOGIN #####
58 # The login screen
59 @app.route('/login', methods=['GET', 'POST'])
60 def login(error=""):
61     title = "Login to Craigiversity!"
62     LOGIN_ERROR = "Invalid information was submitted. Please try again!"
63     error = ''
64     if g.user:
65         return redirect(url_for('user_home_screen'))
66     if request.method == "POST":
67         error = LOGIN_ERROR
68         email = form_submissions.get_email(request.form['email'])

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67         if not email == False:
68             user = User.query.filter_by(email=email).first()
69             if form_submissions.verify_password(user, request.form['password']):
70                 session['userid'] = user.userid
71                 return redirect(url_for('user_home_screen'))
72         return render_template('login.html', current_user_is_auth=False, error=error,
73                                page_title=title, css_file=helper_functions.generate_linked_files('login'))
74 ##### ACCOUNT ROUTES #####
75 # The create account screen
76 @app.route('/create-account', methods=['GET', 'POST'])
77 def create_account(error=""):
78     title = "Welcome to Craigiversity!"
79     CREATE_ERROR = "Need to fill in ALL fields marked with an '*'"
80     errors = []
81     if g.user:
82         return redirect(url_for('user_home_screen'))
83     if request.method == 'POST':
84         [results, errors] = form_submissions.generate_new_account_form(request.form)
85         if len(errors) == 0:
86             added_successfully = database_helpers.add_user(results)
87             if added_successfully:
88                 return redirect(url_for('login'))
89             errors = "Could not process. Try again."
90     return render_template('create-account.html', current_user_is_auth=False,
91                            error=errors, page_title=title,
92                            css_file=helper_functions.generate_linked_files('create-account'), )
93
94 # The user screen
95 @app.route('/user', methods=['GET', 'POST'])
96 def users_account():
97     if g.user is None:
98         return redirect(url_for('login'))
99     account_info = g.user
100     title = "USER: " + g.user.username
101     if request.method == "GET":
102         userid = (request.args.get('userid'))
103         account_info = User.query.filter_by(userid=userid).first()
104         if account_info is None:
105             return redirect(url_for('not_found_error_item'))
106         postings = database_helpers.get_postings(account_info.userid)
107         claims = database_helpers.get_claims(account_info.userid)
108         sales = database_helpers.get_sales(account_info.userid)
109         purchases = database_helpers.get_purchases(account_info.userid)
110         title = "USER: " + account_info.username
111     return render_template('account-view.html', purchases=purchases, postings=postings,
112                            sales=sales, claims=claims, current_user_id=g.user.userid,
113                            current_user_is_auth=(g.user.userid > 0), user_id=g.user.userid,
114                            CURRENT_USER_ID=g.user.userid, page_title=title,
115                            css_file=helper_functions.generate_linked_files('account-view'),
116                            account=account_info)
117
118 # The edit account screen
119 @app.route('/edit-account', methods=['GET', 'POST'])
120 def edit_account(error=""):
121     if g.user is None:
122         return redirect(url_for('login'))
123     title = 'Edit Account'
124     current_user = g.user
125     error = ''
126     if request.method == 'POST':
127         [result, error] = form_submissions.get_modified_account_info(request.form,
128                                                                        g.user.userid)
129         if len(error) == 0 and check_password_hash(g.user.password,
130                                                     str(result['oldpassword'])):
131             if result['deleteaccount'] == "delete":
132                 database_helpers.delete_user(g.user.userid)

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124         if database_helpers.update_current_user(g.user, result):
125             return redirect(url_for('login'))
126     return render_template('edit-account.html', current_user_id=g.user.userid,
current_user_is_auth=(g.user.userid > 0), error=error, current_user=current_user,
CURRENT_USER_ID=g.user.userid, page_title=title,
css_file=helper_functions.generate_linked_files('create-account'), )

127
128 #####
129 ##### POSTINGS #####
130 # The new posting submission screen
131 @app.route('/new-posting-submission', methods=['GET', 'POST'])
132 def new_posting_submission(error=""):
133     title = "Submit a New Posting!"
134     error = []
135     if g.user is None:
136         return redirect(url_for('login'))
137     if request.method == 'POST':
138         [results, error] = form_submissions.get_form_create_post(request.form,
CATEGORIES)
139         if len(error) == 0:
140             database_helpers.add_new_post(results, g.user)
141             return redirect(url_for('login'))
142     return render_template('create-posting-view.html', contact_options=CONTACT_METHOD,
categories=CATEGORIES, current_user_id=g.user.userid, js_file="tag-javascript.js",
current_user_is_auth=(g.user.userid > 0), page_title=title, error=error,
css_file=helper_functions.generate_linked_files('create-posting-view'))

143
144 # NEED TO REWORK CONTACT METHOD!!!
145 @app.route('/edit-posting', methods=['GET', 'POST'])
146 def edit_posting(error=""):
147     title = 'Edit Posting'
148     if g.user is None:
149         return redirect(url_for('login'))
150
151     posting_info = database_helpers.get_post_id(request.args.get('postid'))
152     if posting_info is None or g.user.userid != posting_info.userid:
153         return redirect(url_for('user_home_screen'))
154
155     if request.method == 'POST':
156         [results, error] = form_submissions.get_form_create_post(request.form,
CATEGORIES)
157         if len(error) == 0:
158             print(results)
159             database_helpers.modify_post_by_id(results, posting_info[0])
160             return redirect(url_for('user_home_screen'))
161     return render_template('edit-posting-view.html', contact_options=CONTACT_METHOD,
categories=CATEGORIES, js_file="tag-javascript.js", current_user_id=g.user.userid,
current_user_is_auth=(g.user.userid > 0), user_id=g.user.userid,
CURRENT_USER_ID=g.user.userid, page_title=title, error=error,
css_file=helper_functions.generate_linked_files('create-posting-view'),
post=posting_info)

162
163 # The posting screen
164 @app.route('/posting', methods=['GET'])
165 def full_posting_view():
166     if g.user is None:
167         return redirect(url_for('login'))
168     #posting_info = {}
169     if request.method == 'GET':
170         [posting_info, user_info] =
database_helpers.get_posting_by_id(request.args.get('postid'))
171         if posting_info is None:
172             return redirect(url_for('not_found_error_item'))
173         title = "POSTING: " + posting_info.title
174     return render_template('full-posting-view.html', current_user_id=g.user.userid,
current_user_is_auth=(g.user.userid > 0), page_title=title,
css_file=helper_functions.generate_linked_files('full-posting-view'),

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175     post=posting_info, poster_info=user_info)
176 #####
177 # The home user logged in screen that lists postings
178 @app.route('/search-and-filter-postings', methods=['GET'])
179 def user_home_screen():
180     title = "Search and Filter Postings!"
181     page = 1
182     if g.user is None:
183         return redirect(url_for('login'))
184     if request.method == 'GET':
185         [submitted, randomize] = form_submissions.get_filters(request.args, True)
186         categoryIsAll = True if submitted['category'] == 'All' else False
187         if randomize:
188             postings = database_helpers.generate_random_postings()
189         else:
190             if submitted['search'] == '':
191                 postings = Posting.query.filter(
192                     and_(
193                         Posting.price >= float(submitted['minPrice']),
194                         Posting.price <= float(submitted['maxPrice']),
195
196                         or_(Posting.category.contains(submitted['category']), categoryIsAll)
197                     )
198                 ).join(User).with_entities(
199                     Posting.postid, Posting.userid, User.username,
200                     Posting.title, Posting.price,
201                     Posting.description,
202                     User.rating)
203             else:
204                 search_elems = form_submissions.get_search_elems(submitted['search'])
205                 postings = Posting.query.filter(and_(
206                     and_(Posting.tags.like(e) for e in search_elems),
207                     Posting.price >= float(submitted['minPrice']),
208                     Posting.price <= float(submitted['maxPrice']),
209
210                     or_(Posting.category.contains(submitted['category']), categoryIsAll)
211                 )
212                 ).join(User).with_entities(
213                     Posting.postid, Posting.userid, User.username,
214                     Posting.title, Posting.price,
215                     Posting.description,
216                     User.rating)
217             else:
218                 submitted = form_submissions.get_filters('', True)
219                 postings = database_helpers.generate_random_postings()
220
221     page = form_submissions.get_page_number(submitted['page'], postings.count(),
222 app.config['POSTS_PER_PAGE'])
223     postings = postings.paginate(page, app.config['POSTS_PER_PAGE'], False)
224     next_url = url_for('user_home_screen', search=submitted['search'],
225 category=submitted['category'], minPrice=submitted['minPrice'],
226 maxPrice=submitted['maxPrice'], page=postings.next_num) if postings.has_next else
227 None
228     prev_url = url_for('user_home_screen', search=submitted['search'],
229 category=submitted['category'], minPrice=submitted['minPrice'],
230 maxPrice=submitted['maxPrice'], page=postings.prev_num) if postings.has_prev else
231 None
232     return render_template('user-view.html', next_url=next_url, prev_url=prev_url,
233 page=page, categories=CATEGORIES, able_to_filter=True, submitted=submitted,
234 current_user_id=g.user.userid, current_user_is_auth=(g.user.userid > 0),
235 page_title=title, css_file=helper_functions.generate_linked_files('user-view'),
236 filtered_postings=postings.items)
237 ##### CLAIMS #####

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224 # the claim pages
225 @app.route('/claim', methods=['GET', 'POST'])
226 def claim_submission():
227     if g.user is None:
228         return redirect(url_for('login'))
229     title = "Claim Submission"
230     error = ''
231     IsSeller = False
232     post_info = {'title': '', 'postid': '', 'username': '' }
233     try:
234         [posting_info, poster_info] =
235         database_helpers.get_posting_by_id(request.args.get('postid'))
236         if posting_info is None:
237             return redirect(url_for('error'))
238         post_info = helper_functions.get_post_info_claims(posting_info, poster_info)
239         isSeller = (posting_info.userid == g.user.userid)
240         if isSeller:
241             title = "Seller " + title
242         else:
243             title = "Buyer " + title
244     except Exception as e:
245         error = "Please Try Resubmitting. Something went Wrong."
246         return render_template('claim.html', error=error, post=post_info,
247         isSeller=False, current_user_id=g.user.userid,
248         current_user_is_auth=(g.user.userid > 0), page_title=title,
249         css_file=helper_functions.generate_linked_files('claim') )
250
251 if request.method == 'POST':
252     [submitted, error] = form_submissions.get_new_claims_form(request.form, g.user,
253     post_info['postid'])
254     if len(error) == 0:
255         [completed_claim, claim] = database_helpers.add_claim(submitted,
256         post_info['postid'], g.user)
257         if completed_claim:
258             is_transaction_completed = database_helpers.check_for_transaction(claim)
259             if is_transaction_completed:
260                 db.session.commit()
261                 return redirect(url_for('claim_completion',
262                 is_transaction_complete=True ))
263             elif is_transaction_completed is not None:
264                 db.session.commit()
265                 return redirect(url_for('claim_completion',
266                 is_transaction_complete=False ))
267         error = "Please resubmit your claim. There was an issue. You may have
268         entered invalid data."
269     return render_template('claim.html', error=error, post=post_info,
270     isSeller=isSeller, current_user_id=g.user.userid,
271     current_user_is_auth=(g.user.userid > 0), page_title=title,
272     css_file=helper_functions.generate_linked_files('claim') )
273
274 @app.route('/claim-complete', methods=['GET', 'POST'])
275 def claim_completion(is_transaction_complete=False):
276     if g.user is None:
277         return redirect(url_for('login'))
278     is_transaction_complete = request.args.get('is_transaction_complete')
279     print(is_transaction_complete)
280     return render_template('claim-complete.html',
281     is_transaction_complete=is_transaction_complete=="True", title="Claim Complete",
282     error='', current_user_id=g.user.userid, current_user_is_auth=(g.user.userid > 0),
283     css_file=helper_functions.generate_linked_files('claim'))
284
285 # The HELP page
286 @app.route('/help-and-FAQ')
287 def help():
288     return render_template('help.html')

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276 @app.route('/remove-posting', methods=['GET', 'POST'])
277 def remove_posting_view(error=""):
278     title = 'Remove Posting'
279     if g.user is None:
280         return redirect(url_for('login'))
281
282     posting_info = database_helpers.get_post_id(request.args.get('postid'))
283     if posting_info is None or g.user.userid != posting_info.userid:
284         return redirect(url_for('user_home_screen'))
285
286     if request.method == 'POST':
287         posting_info_remove =
288         Posting.query.filter_by(postid=request.args.get('postid')).first()
289         db.session.delete(posting_info_remove)
290         db.session.commit()
291         return redirect(url_for('user_home_screen'))
292
293     return render_template('remove-posting-view.html', contact_options=CONTACT_METHOD,
294     categories=CATEGORIES, js_file="tag-javascript.js", current_user_id=g.user.userid,
295     current_user_is_auth=(g.user.userid > 0), user_id=g.user.userid,
296     CURRENT_USER_ID=g.user.userid, page_title=title, error=error,
297     css_file=helper_functions.generate_linked_files('create-posting-view'),
298     post=posting_info)
299
300 # Admin view of users
301 @app.route('/admin-view/users', methods=['GET', 'POST'])
302 def admin_view_users():
303     if g.user is None:
304         return redirect(url_for('login'))
305     elif g.user.userid != 1:
306         return redirect(url_for('user_home_screen'))
307     else:
308         if request.method == 'POST':
309             database_helpers.delete_user(request.form.get('user_id'))
310             UserQuery = User.query.order_by(User.userid).all()
311             return render_template('admin-view-users.html', UserQuery=UserQuery)
312
313 # Admin view of postings
314 @app.route('/admin-view/postings', methods=['GET', 'POST'])
315 def admin_view_postings():
316     if g.user is None:
317         return redirect(url_for('login'))
318     elif g.user.userid != 1:
319         return redirect(url_for('user_home_screen'))
320     else:
321         if request.method == 'POST':
322             database_helpers.archivedPost(request.form.get('post_id'))
323             db.session.commit()
324             PostingQuery = Posting.query.order_by(Posting.postid).all()
325             return render_template('admin-view-postings.html', PostingQuery=PostingQuery)
326
327 # Admin view of creating accounts
328 @app.route('/admin-view/create-account', methods=['GET', 'POST'])
329 def admin_view_create_account(error=""):
330     if g.user is None:
331         return redirect(url_for('login'))
332     elif g.user.userid != 1:
333         return redirect(url_for('user_home_screen'))
334     else:
335         title = "Create a User"
336         CREATE_ERROR = "Need to fill in ALL fields marked with an '*'"
337         errors = []
338         if request.method == 'POST':
339             [results, errors] = form_submissions.generate_new_account_form(request.form)
340             if len(errors) == 0:
341                 added_successfully = database_helpers.add_user(results)
342                 if added_successfully:

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337         return redirect(url_for('admin_view_users'))
338         errors = "Could not process. Try again."
339     return render_template('create-account.html', current_user_is_auth=False,
error=errors, page_title=title,
css_file=helper_functions.generate_linked_files('create-account'), )
340
```