```
Coverage for server.py: 100%
                   95 run
    95 statements
                           0 missing
                                       0 excluded
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                          coverage.py v6.5.0, created at 2022-11-08 12:19 +0100
 1 import json
 2 import datetime
 3 from flask import Flask, render_template, request, redirect, flash, url_for, abort
      ======= FLASK APP INITIALIZATION
   app = Flask( name )
 8
 9 app.secret key = 'something special'
10
11 def page_not_found(e):
        return render_template('404.html'), 404
12
13
14 app.register_error_handler(404, page_not_found)
15
16
17
18
   MAX_PLACES = 12
19
   PATH_JSON_CLUBS = 'clubs.json'
20
   PATH JSON COMPETITIONS = 'competitions.json'
21
22
     ======= LOAD JSON DATA
23
24
25
26
   def loadClubs():
27
       try:
28
           if PATH_JSON_COMPETITIONS:
               with open(PATH JSON CLUBS) as c:
29
                   listOfClubs = json.load(c)['clubs']
30
                   if listOfClubs and len(listOfClubs) > 0:
31
                       return listOfClubs
32
33
                   else :
                       raise Exception("This file is empty, or key not found")
34
35
       except Exception as error:
36
37
           return str(error)
38
39
   def loadCompetitions():
40
41
           if PATH_JSON_COMPETITIONS:
42
43
               with open(PATH_JSON_COMPETITIONS) as c:
                   listOfCompetitions = json.load(c)['competitions']
44
                   if listOfCompetitions and len(listOfCompetitions) > 0:
45
                       return listOfCompetitions
46
47
                   else :
                       raise Exception("This file is empty, or key not found")
48
49
       except Exception as error:
50
51
           return str(error)
52
53 competitions = loadCompetitions()
   clubs = loadClubs()
54
   now = datetime.datetime.now()
56 current date = now.strftime("%Y-%m-%d, %H:%M:%S")
57
58
   60
61
   @app.route('/')
62
   @app.errorhandler(500)
63
64 def index():
65
           Displays home page of the app.
66
67
           if no data is available then return :
               - status code 500 and the appropriate template (500.html)
68
69
70
       if isinstance(clubs, list) and isinstance(competitions, list):
71
           return render_template('index.html')
72
73
       else:
           return render_template('500.html'), 500
74
75
76
77
      78
79
   @app.route('/showSummary', methods=['POST'])
80
81
   def show summary():
82
83
           Displays the summary of all competitions
84
           and points available of the connected club
           if email is not found return error message
85
86
87
       try:
           club = [club for club in clubs if club['email'] == request.form['email']][0]
88
89
           if club:
90
               return render_template('welcome.html', club=club, competitions=competitions, current_date=current_date)
91
92
93
        except IndexError:
           flash("Sorry, this email wasn't found. Please try again with a correct email !!")
94
           return redirect(url_for('index'))
95
96
97
98
      ======= ROUTE FOR BOOK PLACES
99
100
    @app.route('/book/<competition>/<club>')
101
    def book(competition,club):
102
103
104
        Displays:
            Competition's name and places available
105
            & the booking form or displays an error message.
106
107
108
        try:
            foundClub = [c for c in clubs if c['name'] == club][0]
109
            foundCompetition = [c for c in competitions if c['name'] == competition][0]
110
            return render_template('booking.html',club=foundClub,competition=foundCompetition)
111
112
113
        except IndexError:
114
            flash("Sorry, this club or competition wasn't found !!")
            return render_template('welcome.html', club=club, competitions=competitions, current_date=current_date)
115
116
117
118 # ======= ROUTE FOR PURCHASE PLACES
119
120 cart = {
        competition["name"]: {club["name"]: 0 for club in clubs}
121
        for competition in competitions
122
123 }
124
125
126
    @app.route('/purchasePlaces',methods=['POST'])
    @app.errorhandler(400)
127
128 def purchase places():
129
            Act like a Controller of the booking form:
130
            - By validating it,
131
            - Or handeling errors
132
133
134
        competition = [c for c in competitions if c['name'] == request.form['competition']][0]
135
        club = [c for c in clubs if c['name'] == request.form['club']][0]
136
        club points = int(club['points'])
137
        placesRequired = int(request.form['places'])
138
        current cart = cart[competition["name"]][club["name"]]
139
        current places available = int(competition['numberOfPlaces'])
140
141
142
        if competition['date'] < current_date:</pre>
            flash("Sorry, this competition is over !")
143
            return render template('welcome.html', club=club, competitions=competitions, current date=current date), 400
144
145
        elif placesRequired > club_points:
146
            flash("Sorry, your club doesn't have enough points !")
147
            return render_template('booking.html', club=club, competition=competition, current_date=current_date), 400
148
149
150
        elif placesRequired > MAX_PLACES :
            flash(f"Sorry, you can't book more than {MAX PLACES} places !")
151
            return render_template('booking.html', club=club, competition=competition, current_date=current_date), 400
152
153
154
        elif placesRequired + current cart > MAX PLACES :
            flash(f"""Sorry, you have already booked places, for this competition
155
            and now you have exceeded the limit of {MAX_PLACES} places !""")
156
            return render_template('booking.html', club=club, competition=competition, current_date=current_date), 400
157
158
159
        elif placesRequired > current_places_available:
160
            flash("Sorry, you book more places than available !")
            return render_template('booking.html', club=club, competition=competition, current_date=current_date), 400
161
162
163
        else:
            competition['numberOfPlaces'] = int(competition['numberOfPlaces'])-placesRequired
164
165
            club['points'] = int(club['points'])- placesRequired
166
167
            cart[competition["name"]][club["name"]] += placesRequired
168
169
170
            flash(f"Great you have booked {placesRequired} places! for {competition['name']}")
171
            return render_template('welcome.html', club=club, competitions=competitions, current_date=current_date, add_to_cart=cart[competition["name"]][club["name"]])
172
173
      ====== ROUTE FOR BOARD DISPLAY
174
175
177 @app.route('/board', methods=['GET'])
178 def show_board():
179
            Displays the Public Board of all clubs with their points.
180
181
        return render template('board.html', all clubs=clubs)
182
183
184
    # ======= ROUTE FOR LOGOUT
185
186
187
188 @app.route('/logout')
    def logout():
189
        return redirect(url_for('index'))
190
```