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1  """
2  request_handlers/server.py is the file that handles requests from the
3  bottle server. It determines the requests and calls the respective
4  function from another class.
5  """
6  from UniversalRequestHandler import UniversalRequestHandler
7  import config.ConfigConnector as ConfigConnector
8  from AdminRequestHandler import AdminRequestHandler
9  from StudentRequestHandler import StudentRequestHandler
10 from sql.PostgresConnector import PostgresConnector
11
12
13 config_file = 'db.config'
14
15
16 class ServerRequestHandler:
17     def __init__(self):
18         self.postgres_connector = PostgresConnector(config_file)
19         self.admin_request_handler = AdminRequestHandler(self.
20 postgres_connector)
21         self.universal_request_handler = UniversalRequestHandler(self.
22 postgres_connector)
23         self.student_request_handler = StudentRequestHandler(self.
24 postgres_connector)
25
26         self.REQUEST_OPTIONS = {
27             'universal.login': self.universal_request_handler.login,
28             'universal.create_account': self.universal_request_handler.
29 create_account,
30             'admin.get_students': self.admin_request_handler.get_students
31 ,
32             'admin.get_student_location': self.admin_request_handler.
33 get_student_location,
34             'admin.get_beacons': self.admin_request_handler.get_beacons,
35             'admin.add_admin': self.admin_request_handler.add_admin,
36             'macos.admin.get_beacons': self.admin_request_handler.
37 get_beacons_macos,
38             'admin.get_zones': self.admin_request_handler.get_zones,
39             'admin.edit_beacon': self.admin_request_handler.edit_beacon,
40             'admin.create_beacon': self.admin_request_handler.
41 create_beacon,
42             'admin.delete_beacon': self.admin_request_handler.
43 delete_beacon,
44             'student.update_location': self.student_request_handler.
45 update_location,
46             'student.get_info': self.student_request_handler.get_info
47         }
48
49     def handle_request(self, request):

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40         """
41         Calls function based on the request type. Firstly,
42         checks if type exists, then calls functions as defined
43         in REQUEST_OPTIONS.
44
45         :returns a JSON object (python dictionary)
46             depending on function called.
47         """
48         if request['type'] in self.REQUEST_OPTIONS.keys():
49             # ** denotes kwargs: keyword arguments.
50             return self.REQUEST_OPTIONS[request['type']](**request['args'
51 ])
52         else:
53             return {
54                 'successful': False,
55                 'reason': 'Request type \'' + request['type'] + '\' does
not exist.'
56             }
```