nuPlanner

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Package **controllers**

controllers Class Application

public class **Application** extends Controller

Constructors

Application

public Application()

Methods

events

public static Result events()

controllers Class FB

public final class **FB** extends java.lang.Object

Fields

APP_ACCESS_TOKEN

public static final java.lang.String APP_ACCESS_TOKEN

Constant value: 524073037656113 | 11aTC3FhsPHJEeRZfWB9vk70nAk

USER ACCESS TOKEN

public static final java.lang.String USER_ACCESS_TOKEN

Constant value:

CAAHcpEMZB8DEBANQkZAyhJCXEYnAn2UW9paEZC7VWGJCb9alouGismLu8xKfCZCZBdtAl3Ld4iVC6u2Ha XHqmknogy4RMuMswUMqc17PKSwAt4UmQoqDT4RIHKQaeHpnoXjXkCWTFlx7fNKKvDLUaauyS3KIuFsvziJ aCphDuCgZDZD

CENTER_LATITUDE

public static final java.lang.String CENTER_LATITUDE

Constant value: 42.054581

CENTER_LONGITUDE

public static final java.lang.String CENTER_LONGITUDE

Constant value: -87.677192

CENTER_RADIUS

public static final java.lang.String CENTER_RADIUS

Constant value: 1000

FQL_EVENT_FIELDS

public static final java.lang.String FQL_EVENT_FIELDS

Constant value: eid, name, creator, host, start_time, end_time, location, venue, description, pic, pic_big, pic_cover, pic_small, pic_square, timezone, update_time, all_members_count, attending_count, declined_count, unsure_count, not_replied_count

FQL_EVENT_MEMBER_FIELDS

public static final java.lang.String FQL_EVENT_MEMBER_FIELDS

Constant value: eid

FQL_PLACE_FIELDS

public static final java.lang.String FQL_PLACE_FIELDS

Constant value: page_id

FQL EVENT TABLE

public static final java.lang.String FQL_EVENT_TABLE

Constant value: event

FQL_EVENT_MEMBER_TABLE

public static final java.lang.String FQL_EVENT_MEMBER_TABLE

Constant value: event_member

FQL_PLACE_TABLE

public static final java.lang.String FQL_PLACE_TABLE

Constant value: place

FQL_LIMIT

public static final java.lang.String FQL_LIMIT

Constant value: LIMIT 51000

FQL_ORDER

public static final java.lang.String FQL_ORDER

Constant value: ORDER BY start_time ASC

GRAPH EVENT FIELDS

public static final java.lang.String GRAPH_EVENT_FIELDS

Constant value:

id,name,owner,description,start_time,end_time,location,venue,privacy,updated_time,
picture,ticket_uri

GRAPH SEARCH TYPE

public static final java.lang.String GRAPH_SEARCH_TYPE

Constant value: event

GRAPH LIMIT

public static final java.lang.String GRAPH_LIMIT

Constant value: 5000

BLOCKED_ORGANIZATIONS

public static final java.lang.String BLOCKED_ORGANIZATIONS

BLOCKED_VENUES

public static final java.lang.String BLOCKED_VENUES

Constructors

FB

public FB()

controllers Class Scrape

public class **Scrape** extends Controller

Constructors

Scrape

public Scrape()

Methods

scrape

public static Result scrape()

controllers Class ScrapeFacebook

public class **ScrapeFacebook** extends Controller

Constructors

ScrapeFacebook

public ScrapeFacebook()

Methods

scrape_graph

public static Result scrape_graph()

Scrapes events from Facebook using the Facebook Graph API. It searches for events radially outward from predefined center coordinates with a predefined radius.

This method requires a USER_ACCESS_TOKEN as opposed to the standard APP_ACCESS_TOKEN. Thus, this method can only be run upon user authentication. Thus, this method is currently not being used in the "scrape sequence," the sequence of functions run to scrape all events (defined in Scrape.java).

TODO: Enable this function after implementing Facebook User Authentication.

Returns

Return a ISON string of all scraped events.

scrape_fql

public static Result scrape_fql()

Scrapes events from Facebook using the Facebook Query Language (FQL). It searches for events using the defined FQL QUERY.

The FQL_QUERY searches for events that are created by Facebook Pages. It filters these events based on pages whose location is within CENTER_RADIUS meters from (CENTER_LATITUDE, CENTER_LONGITUDE).

As stated above, this query only searches for events that are created by a page. The event_member table in FQL contains uids and page_ids of, as the name suggests, members of events. The logic behind the query is that if a page is a member of an event, the page is the creator the event. Most pages have a location associated with them. If the location is within CENTER_RADIUS meters from (CENTER_LATITUDE, CENTER_LONGITUDE) the event will be returned.

However, one major pitfall is international/national organizations that have their headquarters within this radius. The page resides here, but the actual event may be in Washinton, DC or another country. Some examples of these are SAE and Rotary International. There is no obvious solution for filtering with these events, especially if they don't have a listed venue. The filter events function in Utilities.java explores this in greater detail.

Returns:

Return a JSON string of all scraped events.

scrape locations

public static Result scrape_locations()

Scrape Locations uses data already in the MyEvent table to search for events. It uses the getLocations function in Utilities.java to find a list of all locations where events currently reside based on the events in the database. It then uses the Facebook Graph API to perform a text based query of these locations. This is a powerful function and grabs a myriad of events. However, filtering is extremly important as the majority of these events will be outside of the city/state/country.

Returns:

Return a JSON string of all scraped events.

scrape_organizations

public static Result scrape_organizations()

[scrape_organizations description]

Returns:

[description]

controllers Class ScrapeWildcatConnection

public class **ScrapeWildcatConnection** extends Controller

The ScrapeWildcatConnection class scrapes the events within WildcatConnection and stores them to the database.

Constructors

ScrapeWildcatConnection

public ScrapeWildcatConnection()

Methods

scrape_wildcatconnection

public static Result scrape_wildcatconnection()

controllers Class Seed

public class **Seed** extends Controller

The Seed class collects data from various sources on the web that will be saved to the database in order to aid the scrapers.

Constructors

Seed

public Seed()

Methods

seed

public static Result seed()

seed_organizations

public static Result seed_organizations()

controllers Class Utilities

public class **Utilities** extends Controller

The Seed class collects data from various sources on the web that will be saved to the database in order to aid the scrapers.

Constructors

Utilities

public Utilities()

Methods

createEvent

public static MyEvent createEvent(com.restfb.json.JsonObject event)

getLocations

public static java.util.ArrayList getLocations()

saveOrUpdate

public static boolean saveOrUpdate(MyEvent event)

filter_event

public static boolean filter_event(MyEvent event)

save_events

public static java.util.List save_events(java.util.List events)

save_events

public static java.util.List save_events(com.restfb.json.JsonArray events)

facebook_fql_query

facebook_graph_query

Package **models**

models Class MyEvent

public class **MyEvent** extends Model

Fields

eid

public java.lang.Long eid

name

public java.lang.String name

creator

public java.lang.String creator

location

public java.lang.String location

venue

public java.lang.String venue

start_time

public DateTime start_time

end_time

public DateTime end_time

pic

public java.lang.String pic

description

public java.lang.String description

find

public static <any> find

findLong

public static <any> findLong

findDate

public static <any> findDate

Constructors

MyEvent

Methods

toJSONString

public java.lang.String toJSONString()

models Class MyOrganization

public class **MyOrganization** extends Model

Fields

fbid

public java.lang.Long fbid

name

public java.lang.String name

creator

public java.lang.String creator

url

public java.lang.String url

location

public java.lang.String location

description

public java.lang.String description

find

public static <any> find

findLong

public static <any> findLong

Constructors

MyOrganization

Methods

getJsonObject

public java.lang.String getJsonObject()

models Class Person

Direct Known Subclasses:

Student

public class **Person** extends Model

Fields

id

public java.lang.Long id

name

public java.lang.String name

Constructors

Person

public Person(java.lang.String name)

models Class Student

public class **Student** extends **Person**

Fields

find

public static <any> find

Constructors

Student

public Student(java.lang.String name)

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