# PostgreSQL FTS Relay Application

## Deployment Instructions

### Deployment to Heroku

## Data Format for JSON messages

### Search Request

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | | | **Type** | **Mandatory** | **Description** |
| *table* |  |  | Object | Yes |  |
|  | ***name*** |  | String | Yes | Name of the table against which the FTS search will be executed |
|  | ***columns*** |  | Object[] | Yes | Column name(s) to create a document (unit of searching) |
|  |  | ***name*** | String | Yes | Name of the column within the table |
|  |  | ***selectable*** | Boolean | Yes | Indicates if column will be in SELECT statement predicate |
|  |  | ***tsvectorinclude*** | Boolean | Yes | Indicates if column will be used to create ts\_vector |
| *query* |  |  | String | Yes | User-written text to be used in *­plain\_tsquery* function to create search terms |
| *configuration* |  |  | String | No | Configuration name to be used to parse and normalize strings. By default it will be set to *english* |

{ “table”: {  
 “name”: “products”,  
 columns:[  
 {“name”:”product\_name”, “selectable”:true, “tsvectorinclude”:true},  
 {“name”:”description”, “selectable”:false, “tsvectorinclude”:true},  
 {“name”:”product\_id”, “selectable”:true, “tsvectorinclude”:false}],

“query”:”sold by pair”,  
 “configuration”:”english”  
 }

### Search Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field |  | Type | Mandatory | Description |
| result |  | Object | Yes |  |
| ***sqlstatement*** | String | Yes | Name of the table against which the FTS search will be executed |
| ***records*** | Object[] | Yes |  |
| ***javatimemls*** | Integer | Yes | Indicates time the java program ran FTS search, this is to collect statement statistics |
| error |  | Boolean | Yes | User-written text to be used in *­plain\_tsquery* function to create search terms |
| error\_message |  | String | No | Configuration name to be used to parse and normalize strings. By default it will be set to *english* |

### Create Index Request

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | | | **Type** | **Mandatory** | **Description** |
| *name* |  |  | String | Yes | Name of the index to be created |
| *type* |  |  | String | No | Type of the index to be created, GIN will be default type. |
| *table* |  |  | Object | Yes | Name of the table for which index will be created |
|  | ***name*** |  | String | Yes | Name of the table against which the FTS search will be executed |
|  | ***columns*** |  | Object[] | Yes | Column name(s) to create a document (unit of searching) |
|  |  | ***name*** | String | Yes |  |
| *configuration* |  |  | String | No | Configuration name to be used to parse and normalize strings. By default it will be set to *english* |