# PostgreSQL FTS Relay Application

PostgreSQL FTS Relay web application is built on Spring MVC framework module. The application gets compiled on JDK 1.8 through Maven, and runs on any environment where the JDK is available. T

## 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* |