What is the main goal of the feature?

The main purpose of this feature is to generate dynamically the Acted artist browser page and to implement the search of artist based on few criteria to allow Acted customers find the right artist for their event.

What are the feature inputs?

* http://www.acted.co/search URL.
* The design mockup of the search page, under the “search.html” file, in the Mockup repo.
* Acted database.

What are the feature outputs?

A dynamically generated HTML document, respecting the “search.html” file design, filled with the requested information (stored in the database).

This dynamic page should allow the Acted users to search any artist, using search and filter criteria.

What are the main business rules implemented?

Implemented artists search by distance, categories.

Define a quick “How it works” schema.

Service ‘search’ is used for extracting filtered artists from the database. Also, we use two extra class for filters (Filter Criteria) and for sort (Order Criteria) for easy extracting request data. Form SearchType contains fields for search. We have added the action that takes SearchType, sends it to 'search' service, and returns artists data. All artists data are JSON arrays (we use JMS Serializer). Serialization rules are located in Acted/LegalDocsBundle/Resources/config/serializer.

When the user changes some filter, jQuery sends AJAX request to new action and after that puts artists blocks on the page.

We use this formula to calculate distance between two geo objects:

D = acos( sin φ1 ⋅ sin φ2 + cos φ1 ⋅ cos φ2 ⋅ cos Δλ ) ⋅ 6371

Which bundle handles the feature?

ActedLegalDocsBundle contains all application logic.

What are the main classes?

Acted\LegalDocsBundle\Service\Search - the main class for search subsystem.

Acted\LegalDocsBundle\EventListener\GeoListener - this class uses Google Maps Geolocation API and converts city/region titles to coordinates.

Acted\LegalDocsBundle\Form\ SearchType – It form is used for extracting search criteria.

Acted\LegalDocsBundle\Repository\ArtistRepository – contains queries for search.

Acted\LegalDocsBundle\Search\FilterCriteria - is used by "search" service for extracting search criteria.

Acted\LegalDocsBundle\Search\OrderCriteria - is used by "search" service for extracting sorting criteria.

What are the services?

app.remove\_files.listener – Event Listener that removes files from filesystem when someone deletes Media.

app.listener.geo - contains logic for address transformation (city name to coordinates).

app.search - is used for artists search.

What are the Twig templates?

ActedLegalDocsBundle:Default:search.txt.twig – search page;

What are the add-on bundle you installed?

FOSRestBundle provides more flexible serialization

MisdPhoneNumberBundle provide form validator for phone numbers.

beberlei/DoctrineExtensions – provides math functions for Doctrine.

willdurand/geocoder – provides SDK for geocoding.

What are the commands to run to install the feature?

$ composer update

$ php app/console doctrine:schema:update --force

$ php app/console assets:install

$ php app/console doctrine:fixtures:load

$ php app/console cache:clear

*(Fixture loading might take a long time because we use Google Maps Geolocation to extract coordinates for some geo data. ~3 min)*

What are the commands to run to test the feature?

We do not have tests for this feature.

How to test the feature?  
Go to search page - **http://[SITENAME]/search**. You will see home recommended artists and sub-categories. When you change some form data, blocks with artists will update automatically.