Docker

Document Search Engine

Introduction :

Document search engine where students can find required document. This is clone of Google search engine where student finds documents with filtering and based on search queries.

Purpose :

Document Search engine is a web platform which can be used by Institute and organizations where people can upload documents and when required people can search for documents by applying filtering (like author , tags, downloads , dates uploaded) and download it.

Scopes
- Teachers can upload documents on the application
- Students can search required documents by filters and download it.
- Organization can use analytics tool.

Tools Used
- Django 1.9 Python Framework
- Django Rest Framework API
- AngularJs
- Bootstrap 1.8
- HTML 5 , CSS , JavaScript

References
- Django Documentation - https://docs.djangoproject.com/
- Django REST framework – www.django-rest-framework.org/
- Bootstrap - http://getbootstrap.com/

Technologies to be used
- Relational Database Management System
- REST API

Software Interface :
   - The web is used to interface.
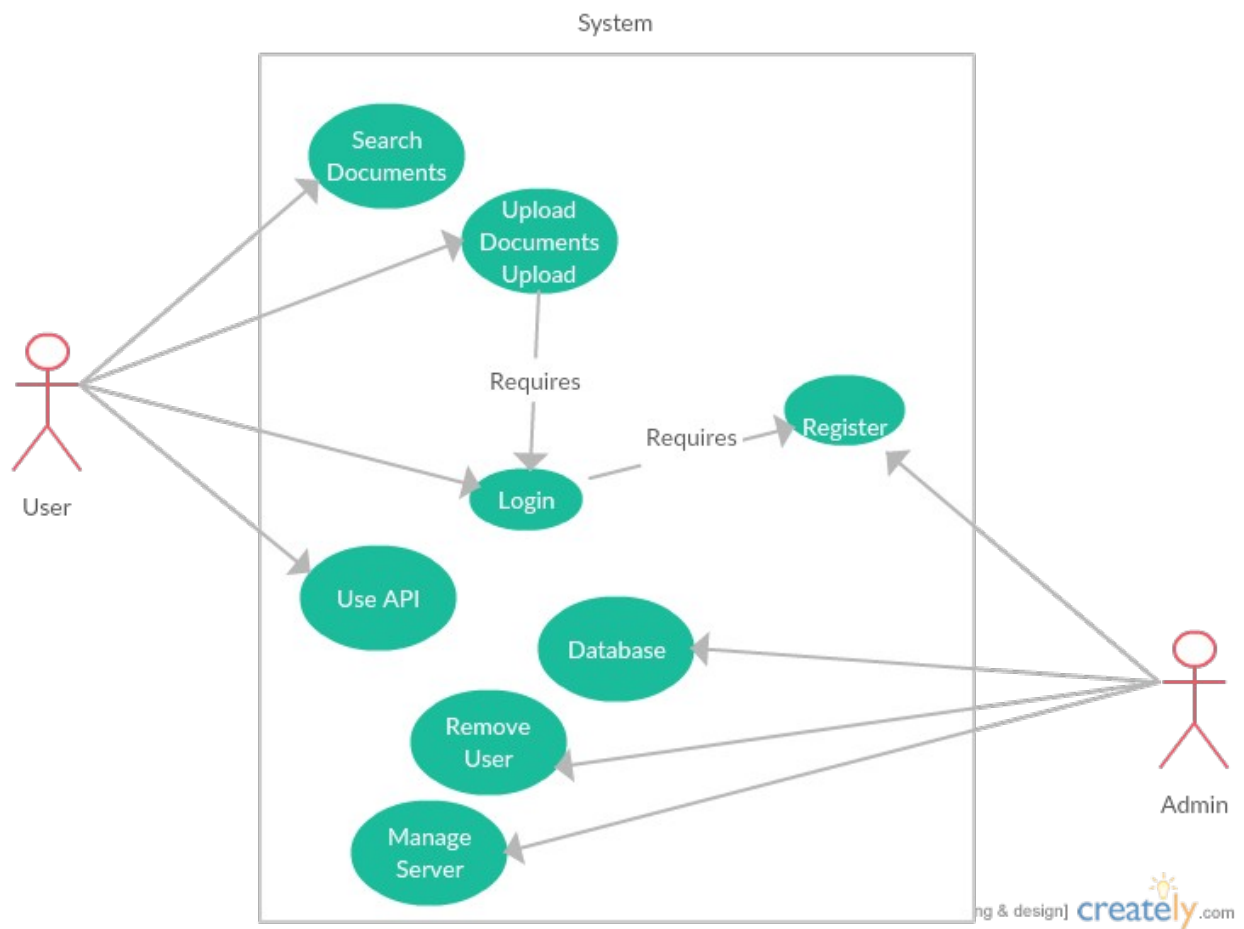   - Web Browser (Chrome, Firefox , Opera , Safari)

Hardware Requirements :
- No special Hardware requirements.

Performance Requirements :
- A Powerful Server . Data accesses is via API calls that leads to load on server.
- Good Hard Disk to store documents. Fast and Big.

Use-case Reports

System

Search Documents

Upload Documents Upload

Requires

Requires

Register

Login

Use API

Database

Remove User

Manage Server

User

Admin

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Class Diagram :

Users

+ id
+ username
+ password
+ email
+ fullname
+ account_created_on
+ usertype

Document

+ id
+ doc_title
+ doc_type
+ doc_tags
+ doc_description
+ doc_path
+ doc_uploaded_on
+ doc_uploaded_by

Foreign Key

FK

Downloads

+ username
+ doc_id
+ downloaded_on

FK

Stats

+ search_keyword
+ frequency