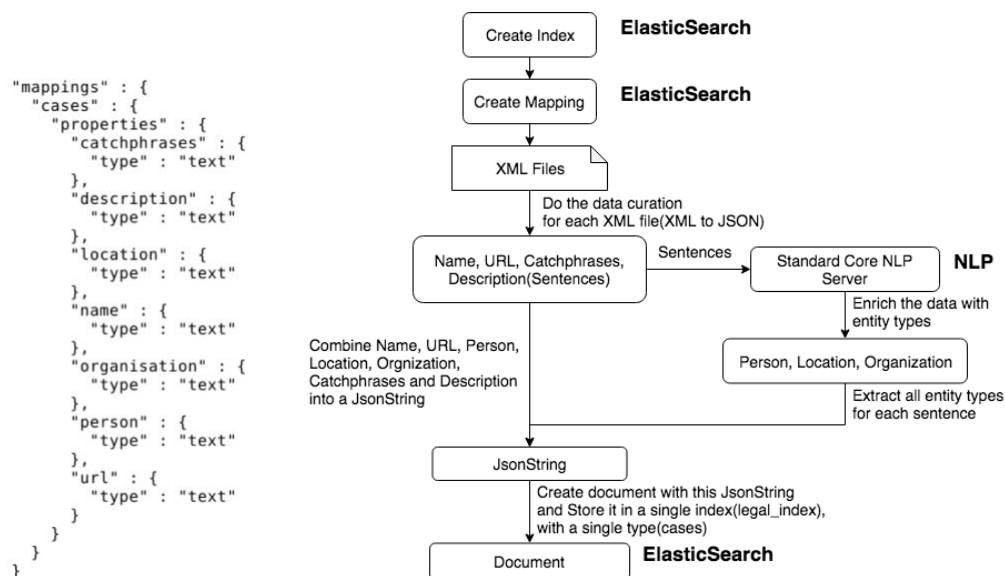**COMP9313 – Assignment3**

Han YANG – z5140181

ElasticSearch

The Index Design (Left figure) and the whole solution (Right figure) of my Spark standalone

Application can be seen as below:

Here are the query examples:

curl -X GET "http://localhost:9200/legal_idx/cases/_search?pretty&q=location:Melbourne"

{
  "took" : 8,
  "timed_out" : false,
  "_shards" : {
    "total" : 5,
    "successful" : 5,
    "skipped" : 0,
    "failed" : 0
  },
  "hits" : {
    "total" : 1,
    "max_score" : 1.1642454,
    "hits" : [
      {
        "_index" : "vuln_hannah",
        "_type" : "cases",
        "_id" : "doc_2",
        "_score" : 1.1642454,
        "_source" : {
          "name" : "Australian Liquor, Hospitality and Miscellaneous Workers Union v Prestige Property Service
s Pty Ltd [2006] FCA 11 (23 January 2006)",
          "url" : "http://www.austlii.edu.au/au/cases/cth/FCA/2006/11.html",
          "person" : "Maria Andronikis Stavroula Athinis Emanuel Azzopardi Peter Blanas Fay Dervenis Koray Meh
met Dincer Randolph Patrick Guiman Trajanka Jancev Athanasios Kasapis Eugenia Kasapi John Markopoulos Vasilios

curl -X GET "http://localhost:9200/legal_idx/cases/_search?pretty&q=person:John"

{
  "took" : 1,
  "timed_out" : false,
  "_shards" : {
    "total" : 5,
    "successful" : 5,
    "skipped" : 0,
    "failed" : 0
  },
  "hits" : {
    "total" : 2,
    "max_score" : 1.2433637,
    "hits" : [
      {
        "_index" : "vuln_hannah",
        "_type" : "cases",
        "_id" : "doc_2",
        "_score" : 1.2433637,
        "_source" : {
          "name" : "Australian Liquor, Hospitality and Miscellaneous Workers Union v Prestige Property Services Pty Ltd [2006] FCA 11 (23 January 2006)",
          "url" : "http://www.austlii.edu.au/cases/cth/FCA/2006/11.html",
          "person" : "Maria Andronikis Stavroula Athinis Emanuel Azzopardi Peter Blanas Fay Dervenis Koray Mehmet Dincer Randolph Patrick Guiman Tra
janka Jancev Athanasios Kasapis Eugenia Kasapi John Markopoulos Vasilios Paganis Nick Papoutsoglou John Peroustianis Vijoleta Rzanovska Souze Stylia
nos Maria Tapia Suzana Tasevski Athina Tsalparos Despina Tsirakidis Gorica Zatkoska Peter Koukouvaos Kanelos Pyliotis Peter Skevis Helen Kostakis Ma

curl -X GET "http://localhost:9200/legal_idx/cases/_search?pretty&q=(criminal%20AND%20law)"

{
  "took" : 1,
  "timed_out" : false,
  "_shards" : {
    "total" : 5,
    "successful" : 5,
    "skipped" : 0,
    "failed" : 0
  },
  "hits" : {
    "total" : 2,
    "max_score" : 1.7230456,
    "hits" : [
      {
        "_index" : "vuln_hannah",
        "_type" : "cases",
        "_id" : "doc_2",
        "_score" : 1.7230456,
        "_source" : {
          "name" : "Australian Liquor, Hospitality and Miscellaneous Workers Union v Prestige Property Services Pty Ltd [2006] FCA 11 (23 January 2006)",
          "url" : "http://www.austlii.edu.au/cases/cth/FCA/2006/11.html",
          "person" : "Maria Andronikis Stavroula Athinis Emanuel Azzopardi Peter Blanas Fay Dervenis Koray Mehmet Dincer Randolph Patrick Guiman Tra
janka Jancev Athanasios Kasapis Eugenia Kasapi John Markopoulos Vasilios Paganis Nick Papoutsoglou John Peroustianis Vijoleta Rzanovska Souze Stylia

curl -X GET "http://localhost:9200/legal_idx/cases/_search?pretty&q=organisation:Software"

{
  "took" : 1,
  "timed_out" : false,
  "_shards" : {
    "total" : 5,
    "successful" : 5,
    "skipped" : 0,
    "failed" : 0
  },
  "hits" : {
    "total" : 1,
    "max_score" : 0.60707766,
    "hits" : [
      {
        "_index" : "vuln_hannah",
        "_type" : "cases",
        "_id" : "doc_0",
        "_score" : 0.60707766,
        "_source" : {
          "name" : "Tower Software Engineering Pty Limited; Pendant Software Pty Limited v Harwood [2006] FCA 717 (6 June 2006)",
          "url" : "http://www.austlii.edu.au/cases/cth/FCA/2006/717.html",
          "person" : "Berend Hoff Mr Hoff Hoff Hoff Bill Frost Frost Frost Mr Service Mallesons Stephen Jaques Frost Mallesons Stephen Jaques Frost
Mr Service Frost Frost Frost Frost Frederick John Frost Frederick John Frost Hoff Glick Glick Hoff Hoff Hoff Hoff Hoff Hoff Frost Hoff Ehrlich
Dawson Toohey Gaudron McHugh Gummow Kirby JJ Gummow J Dixon Hoff Hammond Gibbs CJ Mason Murphy JJ Emmett J Centennial Ehrlich Hoff Ehrlich Hoff Emme
tt J Ehrlich Hoff Hoff Goldberg Ehrlich Solicitor Septimus Lee Jones Mallesons Stephen Jaques Counsel Macpherson",
          "location" : "Tower Tower Tower Tower Australia Australia",
          "organisation" : "Pendant Software Pty Limited Takeovers Panel Pendant Software Tower Software Engineering Pty Limited Pendant Properties
Pty Limited Pendant Software Tower Tower Equity Partners One Pty Limited Equity Partners Equity Partners Tower Equity Partners One Pty Limited Penda
nt Software Tower Software Pendant Software Pty Ltd Pendant Software Pty Ltd Equity Partners Tower Software Engineering Pty Limited Tower Software T