

# cEE/CprE/SE 492 - sddec22-19

## Text extractions from documents into Elasticsearch

### Report 10

9/16/22 - 9/30/22

Client: Kayla Gilleland, Buildertrend

Faculty Advisor: Goce Trajcevski

#### Team Members:

Bruce Bitwayiki

Jared Hayashi

Rushal Sohal

Tiffany Mayberry

#### Weekly Summary

We worked on our presentation for the first PIRM (Peer/Instructor Review Meetings) and also started working on communication between our components. The backend is now able to send data between the two components and the frontend is now able to query through http requests.

#### Past Week Accomplishments

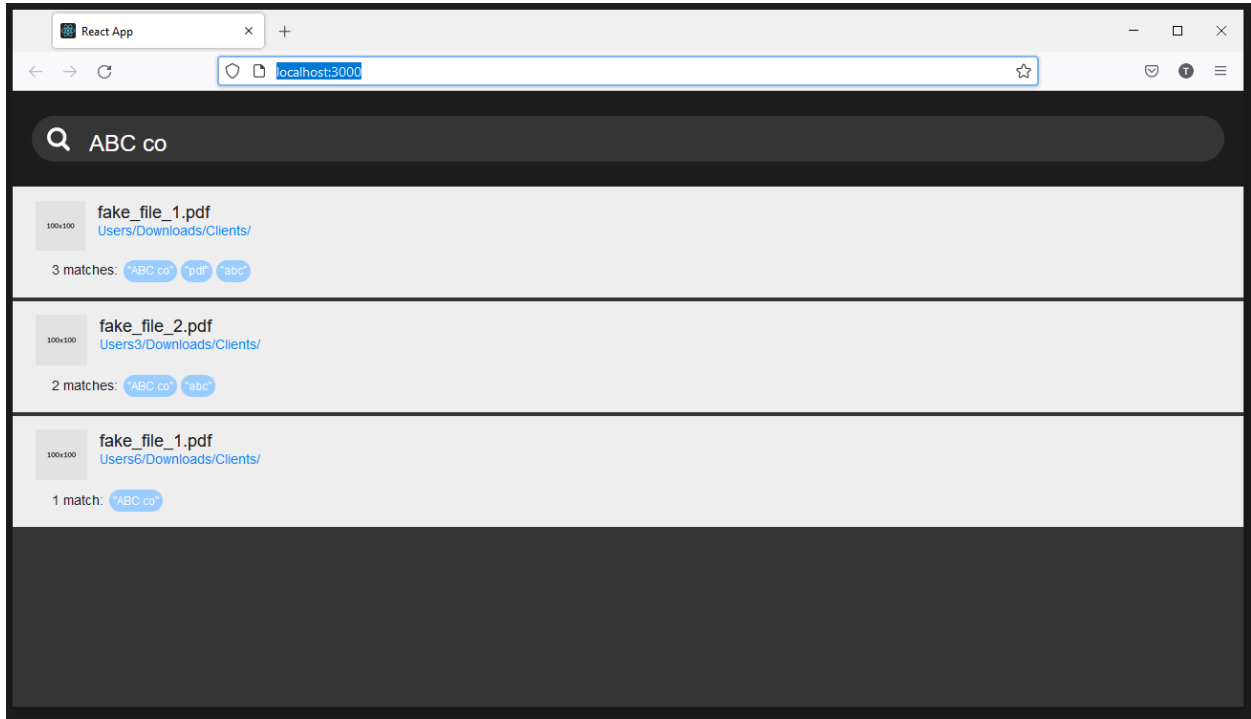
- Created JSON format protocol for communication between components
- Apache Tika sending post requests to Elasticsearch
- Frontend experiments of sending get requests to Elasticsearch
- Revised Search Bar and Result Card Style
- Reflected on current progress status and struggles in preparation for PIRM

#### Individuals Contributions

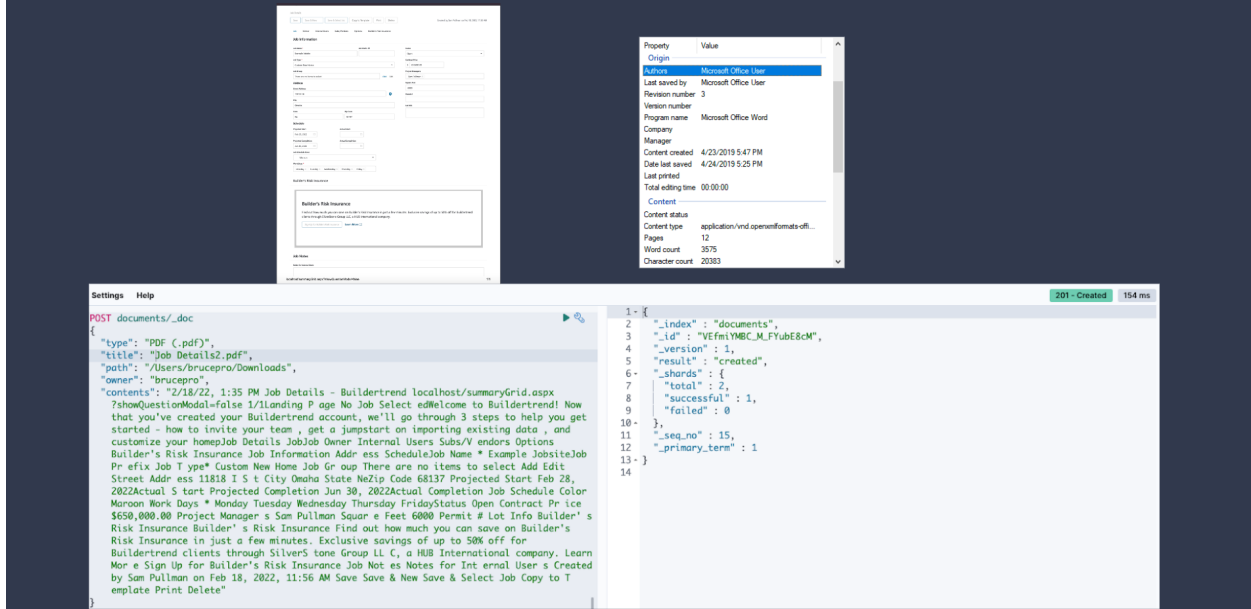
Name	Individual Contributions	BiWeekly Hours	Hours Cumulative
Bruce Bitwayiki	Create a data index and upload some sample documents to ElasticSearch for testing. Exploring various method of querying the data.	5	30
Jared Hayashi	Worked on Apache Tika conversion into JSON files as well as communication between Tika and Elasticsearch.	5	32
Rushal Sohal	Worked on the result view area and tried some styling to the card	10	32

Tiffany Mayberry	Experimented with the frontend connection to Elasticsearch (trial and error), Edited the style of the result cards / search bar	10	49
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## Visuals of Current Progress from Presentation



## Documents -> Tika -> ElasticSearch



# Frontend to Elasticsearch

```
const result = await client.search({
  index: 'documents',
  query: {
    match: {
      contents: {query: "contract"}
    }
  }
})
```

```
PS C:\projects\sddec22-19\Experiments\elastic-to-js-2> npm start
> elastic-to-js-2@1.0.0 start C:\projects\sddec22-19\Experiments\elastic-to-js-2
> node index.js
-----
[
  {
    _index: 'documents',
    id: 'NEKQ0MBC_M_FYUBV5dJ',
    score: 1.2170999,
    _source: {
      type: 'Microsoft Word document (.docx)',
      title: 'construction-contract.docx',
      path: '/Users/brucepro/Downloads',
      owner: 'brucepro',
      contents: "CONSTRUCTION CONTRACT THIS CONSTRUCTION AGREEMENT herein referred to the Agreement and being executed on by and between 1
located at in the County of and whose contact number is whose license number is and located at in the County of and whose contact number is
desires to provide construction services to and desires to obtain said construction services from THEREFORE in consideration of the mutu
al promises set forth below and shall agree to the terms and conditions herein contained in this Contract and enumerated as follows: Detai
led Description of Work to be performed agrees to perform in a good and workmanlike manner all work detailed in the Specifications Sheet w
hich is annexed hereto as Exhibit A which is incorporated herein by reference Any modifications or alterations from the herein contained t
erms and conditions annexed must be done in writing Detailed Scope of Work shall provide all services materials and labor for the construc
tion of on the property located at hereinafter referred to as the Worksite Detailed Description of Materials to be Used All materials to b
e used in the performance of the work herein described in the Specifications Sheet which has been annexed must be in writing All work comp
leted will meet or exceed the Quality Standards for the Professional Builder as established and set forth by the National Association of H
ome Builders (naah.org). In the event that the Contractor is a corporation then a certificate that the individual executing this contract
is duly authorized to sign must accompany this contract Price agrees to complete all work herein described and shall pay the Contractor
for the performance of this contract for the total sum of dollars in accordance with the terms of this contract Upon the receipt of final
payment on this contract shall be released and discharged from any and all claims against for any work performed hereunder or any alterat
ion hereto Payment agrees to pay interest at the rate of per annum on any unpaid balance owed under this contract that is outstanding mo
re than thirty (30) days in the arrears further agrees to pay all reasonable attorney fees and costs of collection in the event fails to pa
y any of the amounts due as outlined in EXHIBIT C Checks shall be made payable and sent to: Commencement and Completion of Work Contracto
r will not begin work or order any materials before the third (3) day following the signing of this Agreement unless otherwise specified h
ere in writing The Contractor will begin work on or about Barring any delay caused by circumstances beyond the Contractor's control the w
ork shall be completed by hereby acknowledges and agrees that the scheduling dates are approximate and that any delay attributable to the
presence of hidden conditions or requiring additional work discovered during the course of construction or delays arising out of the rece
ipt of equipment and/or materials that are not avoidable by the contractor shall not be considered as violations of this Agreement"
    }
  }
]
PS C:\projects\sddec22-19\Experiments\elastic-to-js-2>
```

## Plans for the Upcoming Weeks

- Setup Spring server for Tika so the frontend can send files to it
- Use the findings of the frontend experiments to implement the connections between the frontend and Elasticsearch
- Write test cases for the UI
- Begin implementing the filter bar

## Summary of Weekly Advisor Meeting

- Deferred due to PIRM meeting