

IDEAL Spreadsheet

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Project Description

IDEAL is utilized to provide visualization aids for researchers making use of large web archive files.

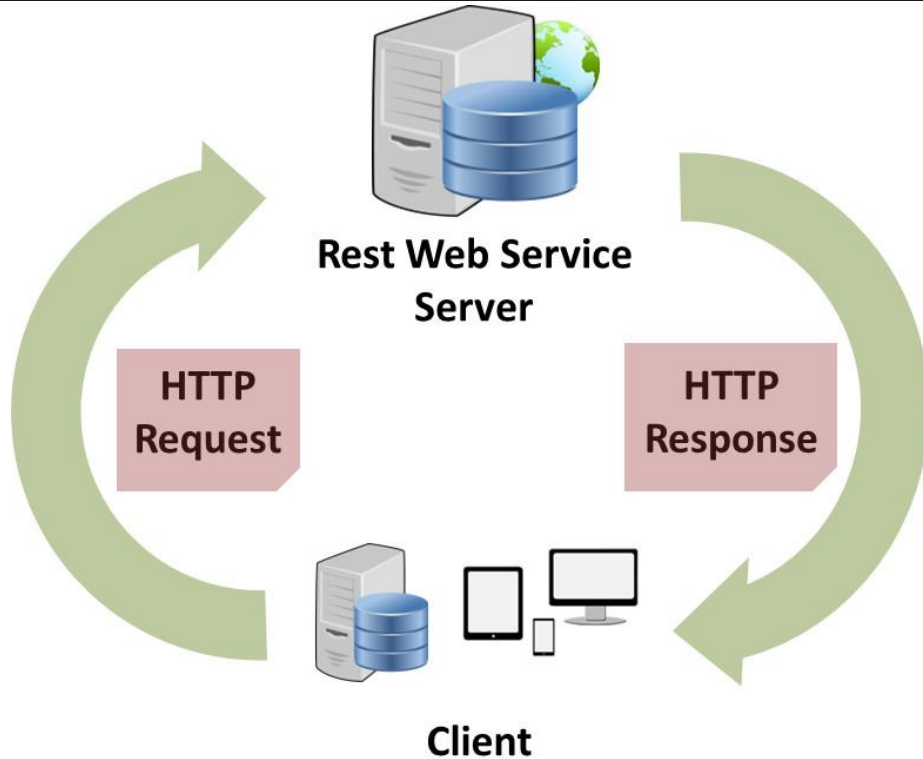
This information will be processed through Hadoop with a spreadsheet like interface.

Why would we do things this way?

How Will We Do This?

- Doing a Web Application.
 1. RESTful Web Service
 2. Front End Interface
 3. Integration with Hadoop / Pig / Solr

RESTful Web Service



Request Types:

1. GET
2. POST
3. PUT
4. DELETE

What tools will we use?



```
/**
 * Handles requests for the application home page.
 */
@Controller
@RequestMapping(value = "/")
public class HomeController {

    private static final Logger logger = LoggerFactory.getLogger(HomeCor

    /**
     * Simply selects the home view to render by returning its name.
     */
    @RequestMapping(method = RequestMethod.GET)
    public String home(Locale locale, Model model) {
        logger.info("Welcome home! The client locale is {}.\"", locale);

        Date date = new Date();
        DateFormat dateFormat = DateFormat.getDateInstance(DateFormat

        String formattedDate = dateFormat.format(date);

        model.addAttribute("serverTime", formattedDate );

        return "home".
```

Front End Interface

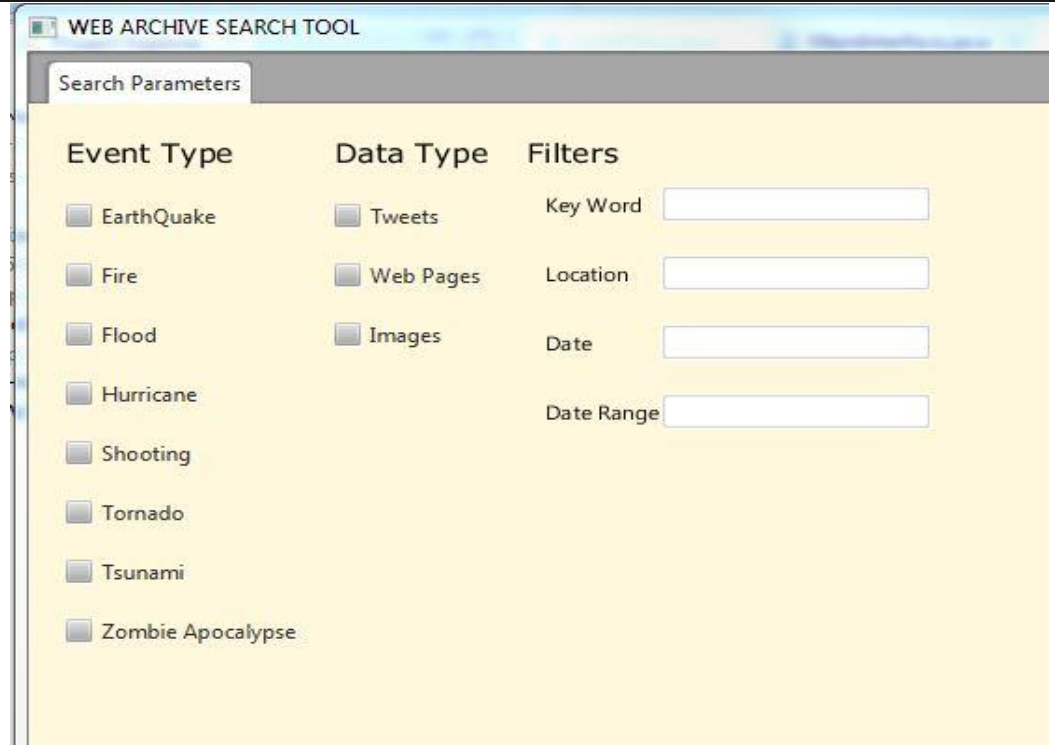
- Using,HTML / CSS, jQuery and javafx
- Interface will consist of selectable archives
- Filter options to restrict output
- Selectable list items take user directly to result

An early idea for a filter tool

Addresses filter needs

But not client specs

Interface design is truly an
iterative process.



The screenshot shows a web browser window titled "WEB ARCHIVE SEARCH TOOL". Below the title bar is a tab labeled "Search Parameters". The main content area is divided into three columns: "Event Type", "Data Type", and "Filters".

Event Type	Data Type	Filters
<input type="checkbox"/> EarthQuake	<input type="checkbox"/> Tweets	Key Word <input type="text"/>
<input type="checkbox"/> Fire	<input type="checkbox"/> Web Pages	Location <input type="text"/>
<input type="checkbox"/> Flood	<input type="checkbox"/> Images	Date <input type="text"/>
<input type="checkbox"/> Hurricane		Date Range <input type="text"/>
<input type="checkbox"/> Shooting		
<input type="checkbox"/> Tornado		
<input type="checkbox"/> Tsunami		
<input type="checkbox"/> Zombie Apocalypse		


More current version:

Web page of results

Ability to continue search

Ability to further refine

IDEAL Spreadsheet

Subject	People Talking	Images Related	Tweets Related
Floods, China	Obama		https://twitter.com/GlobalFloodNews/status/440318944302231552

Add New Search

Backend

- WARC files
- Apache Pig
- Concept extraction

HERITRIX

A AYLIEN



Questions?