Photo-Scan-Summary

By Shraddha Zingade

Photo-Scan-Summary Details

Name: Shraddha Zingade

Repository: https://github.com/Shraddhaz/Photo-Scan-Summary

Project Name: Photo-Scan-Summary

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Contact Information: shraddha@pdx.edu

Traditional Summarizing Methods

- **Read-Note-Summarize**
  Every time we want to summarize something, we use the traditional approach of reading, understanding and then summarizing it. That's fine if you have 2 days to go through 5 research papers.

  But what if you have handwritten papers to through
  and instead of 5, this time there are 10 research papers.
  Excessive right ?

- **Summary from huge texts but not from images**
  There are a lot of text summarizing softwares found online that summarize your data.

  What if you have handwritten copies of data ?
  Or a 500 pages of book ?

Photo-Scan-Summary

Photo-Scan-Summary:

- Extracts the text with in an image.
- Gives you the summary of that image.

Description:

Photo-Scan-Summary extracts the text within an image, and provides its summary in an efficient manner for ease of understanding, that is mainly done by reducing text to its most important sentences. It also supports a broad range of languages, along with language identification.

Application Technical Details

Web Technologies used:
Front-End: HTML/CSS/Bootstrap

Back-End: Node.js/Express

API used:
Google vision API

SMMRY API

Success and Failures

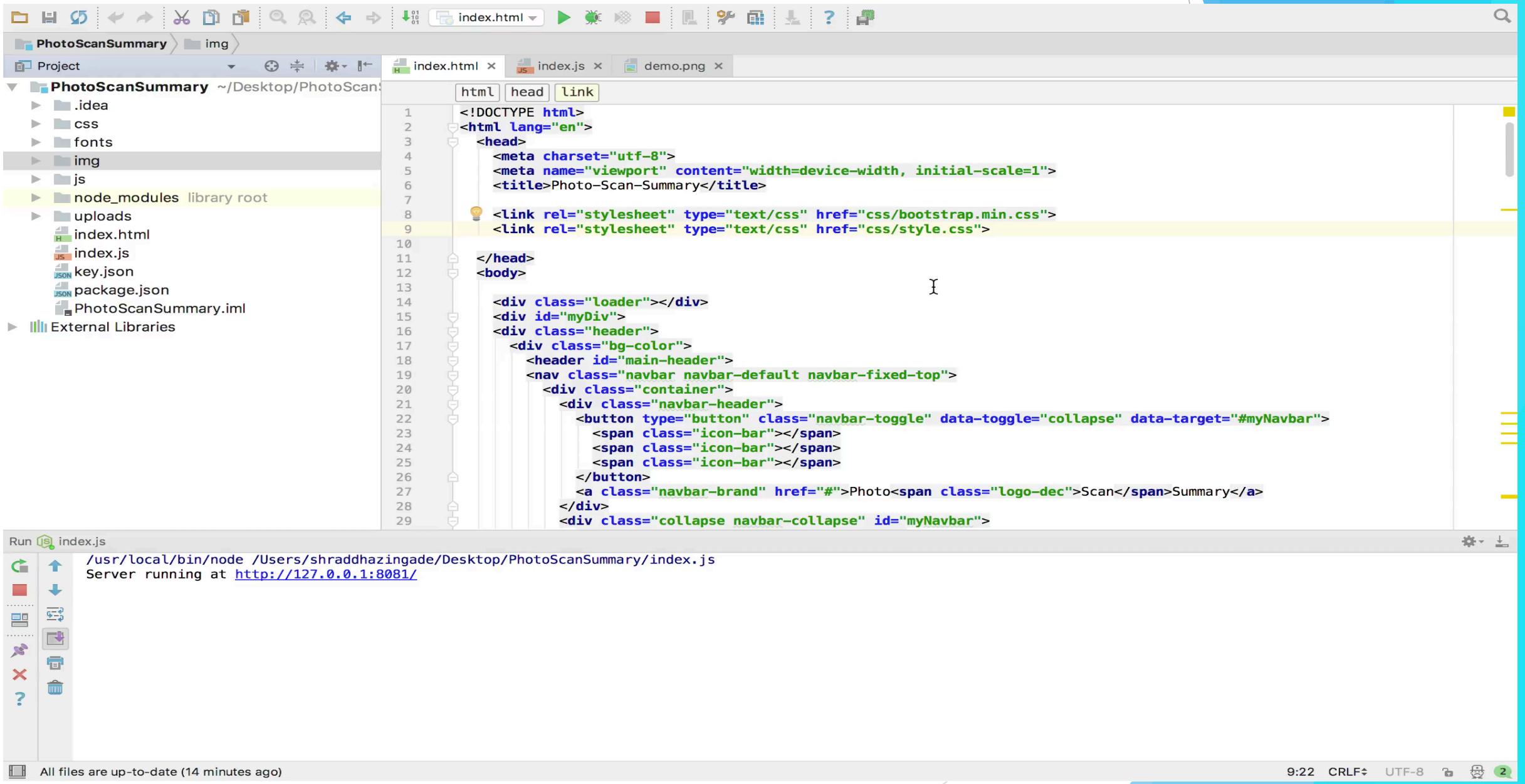
Success:
Successfully designed and developed a web application with almost 4-5 web technologies.

Failures:
Building a complete responsive website (Angular for front-end)

Major problem faced:
Sending data from Node.js server back to HTML file as they are on different ports.

Solution:
Mustache module in Express.

Demo


index.html
PhotoScanSummary
img
Project
PhotoScanSummary ~/Desktop/PhotoScan
.idea
css
fonts
img
js
node_modules library root
uploads
index.html
index.js
key.json
package.json
PhotoScanSummary.iml
External Libraries
index.html
index.js
demo.png
html
head
link
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Photo-Scan-Summary</title>
<link rel="stylesheet" type="text/css" href="css/bootstrap.min.css">
<link rel="stylesheet" type="text/css" href="css/style.css">
</head>
<body>

<header id="main-header">
<nav class="navbar navbar-default navbar-fixed-top">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#myNavbar">

</button>
PhotoScanSummary

Run index.js
/usr/local/bin/node /Users/shraddhazingade/Desktop/PhotoScanSummary/index.js
Server running at http://127.0.0.1:8081/
All files are up-to-date (14 minutes ago)
9:22
CRLF
UTF-8

Application users

- **Students**
- **Researchers**
- **Academicians**

Instead of going through **multiple images of handwritten/web notes**, the user can just upload the images on the web application and study from the summary.

If there are time constraints, using the application seems like a very good idea to me.

Future Scope

- **Hosting the web-application live**
  Deploying this web application on a live system by hosting it on a cloud platform like AWS, Heroku or Google Cloud. This makes the web application more accessible and easy to use.

- **Multiple images simultaneously**
  Currently, the software can take one image and summarize it. If the user could input multiple images at a time, it would be easier to use.

- **Number of lines for Summary**
  The number of lines that the user can get is three right now. But depending on user's input on how many lines of summary he needs, the application should give the output.

THANK YOU!