

Photo-Scan-Summary

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Photo-Scan-Summary Details

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

Project Name: Photo-Scan-Summary

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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 within 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

The screenshot displays a web development IDE interface for a project named "PhotoScanSummary".

Project Structure (Left Sidebar):

- PhotoScanSummary ~ /Desktop/PhotoScanSummary
 - .idea
 - css
 - fonts
 - img
 - js
 - node_modules library root
 - uploads
 - index.html
 - index.js
 - key.json
 - package.json
 - PhotoScanSummary.iml
 - External Libraries

Main Editor (index.html):

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>Photo-Scan-Summary</title>
7
8     <link rel="stylesheet" type="text/css" href="css/bootstrap.min.css">
9     <link rel="stylesheet" type="text/css" href="css/style.css">
10
11   </head>
12   <body>
13
14     <div class="loader"></div>
15     <div id="myDiv">
16       <div class="header">
17         <div class="bg-color">
18           <header id="main-header">
19             <nav class="navbar navbar-default navbar-fixed-top">
20               <div class="container">
21                 <div class="navbar-header">
22                   <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#myNavbar">
23                     <span class="icon-bar"></span>
24                     <span class="icon-bar"></span>
25                     <span class="icon-bar"></span>
26                   </button>
27                   <a class="navbar-brand" href="#">Photo<span class="logo-dec">Scan</span>Summary</a>
28                 </div>
29                 <div class="collapse navbar-collapse" id="myNavbar">
```

Run Console (Bottom):

Run index.js

/usr/local/bin/node /Users/shraddhazingade/Desktop/PhotoScanSummary/index.js

Server running at <http://127.0.0.1:8081/>

Status Bar (Bottom):

All files are up-to-date (14 minutes ago) 9:22 CRLF UTF-8 2

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!