Assignment # 4

Question # 1

Pre-requisites:
- You have to initialize the Paragraph object first with the each input data provided in below test cases .
- Then call a method catWhiteSpace

Test ID # 1
Removing spaces before the end line character in the first line of input and converting that space in one character blank space.

Input: "The outbreak of COVID-19 has created a global health crisis that has had a deep   \n
impact on the way we perceive our world and our daily life."

Output: "The outbreak of COVID-19 has created a global health crisis that has had a deep \n
impact on the way we perceive our world and our daily life."

Test ID # 2
Removing spaces in the start of the second line of input and converting that space in one character blank space.

Input: "The outbreak of COVID-19 has created a global health crisis that has had a deep \n
impact on the way we perceive our world and our daily life."

Output: "The outbreak of COVID-19 has created a global health crisis that has had a deep \n
impact on the way we perceive our world and our daily life."

Test ID # 3
Removing random spaces on different positions within the paragraph in input and converting that space in one character blank space.

Input: "The outbreak of COVID-19 has   created a global health crisis that has had a deep \n
impact on the way we   perceive our world and our daily life."

Output: "The outbreak of COVID-19 has created a global health crisis that has had a deep \n
impact on the way we perceive our world and our daily life."

Test ID # 4

No extra spaces in this case, just the same input and the same output.

Input: "The outbreak of COVID-19 has created a global health crisis that has had a deep \n
impact on the way we perceive our world and our daily life."

Output: "The outbreak of COVID-19 has created a global health crisis that has had a deep \n
impact on the way we perceive our world and our daily life."

Test ID # 5

Removing spaces in the end of the second line of input and converting that space in one character blank space.

Input: "The outbreak of COVID-19 has created a global health crisis that has had a deep \n
impact on the way we perceive our world and our daily life.   "

Output: "The outbreak of COVID-19 has created a global health crisis that has had a deep \n
impact on the way we perceive our world and our daily life."

Question # 2

Module : Add Member module is selected for all the test cases.

Pre-requisites : Librarian must be login to the system.

Test ID # 1

Check if Librarian entered an already existing member_no.

Test steps

- Select the option add Member.
- Add all the details of the member.
- Save changes.

Input: 1234, Mehmood, Munir, House # 28, Sargodha, Punjab, 40100, 03357024660,
halcyoona@gmail.com, Student, Student, 3/7/1998, p176075, Male, image.png

Output: The system should prompt the Librarian this member is already registered please Enter a valid mem_ no.

Test ID # 2

Check if Librarian entered an already existing email address.

Test steps

- Select the option add Member.
- Add all the details of the member.

- Save changes.

Input: 1223, Mehmood, Munir, House # 28, Sargodha, Punjab, 40100, 03357024660, halcyoona@gmail.com, Student, Student, 3/7/1998, p176075, Male, image.png

Output: The system should prompt the Librarian this email is already registered please Enter a different email address.

Test ID # 3

Check if Librarian forget to enter something and one field is empty. It would be any field but in particular I am considering the city field.

Test steps
- Select the option add Member.
- Add all the details of the member.
- Save changes.

Input: 1224, Mehmood, Munir, House # 28, Sargodha, Punjab, 40100, 03357024660, halcyoona@gmail.com, Student, Student, 3/7/1998, p176075, Male, image.png

Output: The system should prompt the Librarian city field is required.

Test ID # 4

Check if Librarian entered invalid email.

Test steps
- Select the option add Member.
- Add all the details of the member.
- Save changes.

Input: 1225, Mehmood, Munir, House # 28, Punjab, 40100, 03357024660, 12341341@gmail.com, Student, Student, 3/7/1998, p176075, Male, image.png

Output: The system should prompt the Librarian to enter a valid email address.

Test ID # 5

Check if Librarian entered a valid email but this email account does not exist.

Test steps
- Select the option add Member.
- Add all the details of the member.
- Save changes.

Input: 1225, Mehmood, Munir, House # 28, Punjab, 40100, 03357024660, mehmoodmunir@gmail.com, Student, Student, 3/7/1998, p176075, Male, image.png

Output: The system should prompt the Librarian email account does not exist

Question # 3.

I have made an web application on virtual machine using Azure cloud services. This is simple web page. http://13.92.187.153/ access on this address. Actually I am doing my NLP project so I have created this web application.I have performed Web test using Webpagetest.com. Result are shown below.

Full Optimization Checklist

Step_1	Keep-Alive 100%	GZip N/A	Compress Img N/A	Progressive N/A	Cache Static N/A	CDN Detected N/A
1: 13.92.187.153 - /	✓					
2: 13.92.187.153 - favicon.ico						
	Keep-Alive	GZip	Compress Img	Progressive	Cache Static	CDN Detected

Content breakdown by MIME type (First View)

Requests

● html

100%

Bytes

● html

100%
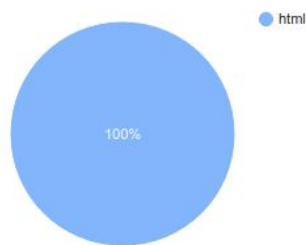
MIME Type	Requests ▼
html	1
css	0
flash	0
font	0
image	0
js	0
other	0
video	0
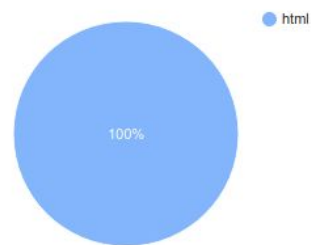
MIME Type	Bytes ▼	Uncompressed
html	20	20
css	0	0
flash	0	0
font	0	0
image	0	0
js	0	0
other	0	0
video	0	0

Content breakdown by domain (First View)

Requests

● 13.92.187.153

100%

Bytes

● 13.92.187.153

100%
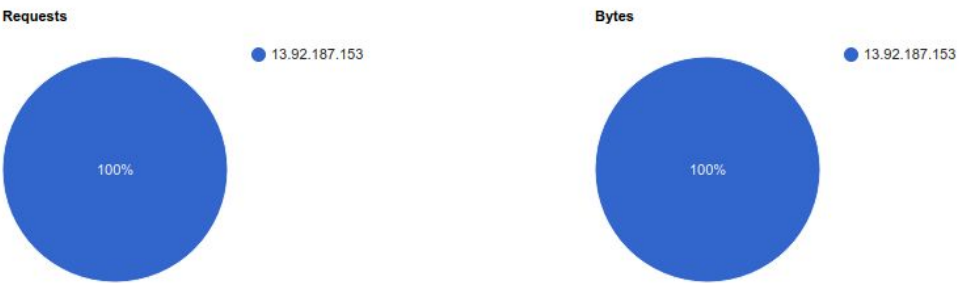
Domain	Requests ▼
13.92.187.153	1

Domain	Bytes ▼
13.92.187.153	20

Details

First Byte Time (back-end processing): 100/100 Learn More ⬏

468 ms First Byte Time
561 ms Target First Byte Time

Use persistent connections (keep alive): 100/100

Use gzip compression for transferring compressable responses: N/A Learn More ⬏

Compress Images: N/A Learn More ⬏
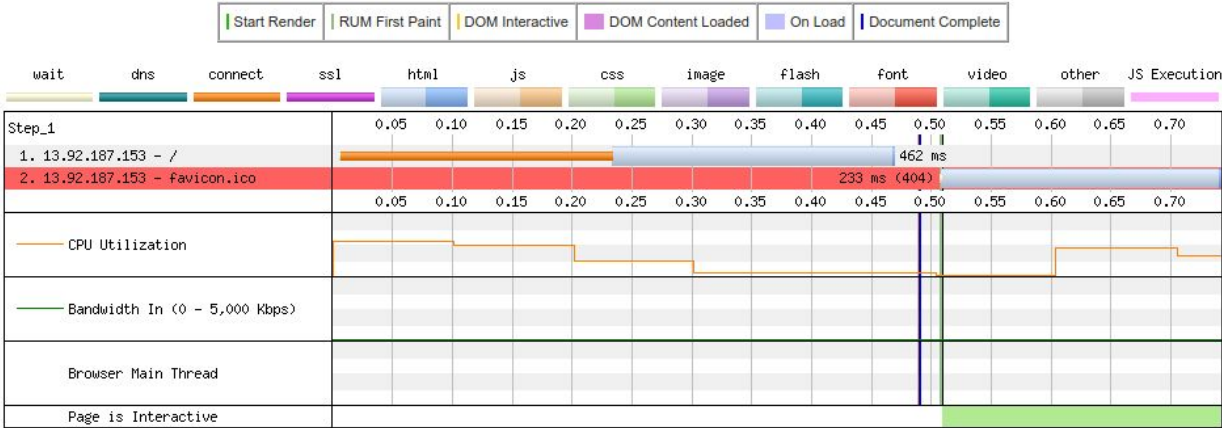
Use Progressive JPEGs: N/A Learn More ⬏

Leverage browser caching of static assets: N/A Learn More ⬏

Use a CDN for all static assets: N/A

	First Byte	Start Render	First Contentful Paint	Speed Index	Result (error code)	Web Vitals		Document Complete			Fully Loaded		
						Largest Contentful Paint	Cumulative Layout Shift	Time	Requests	Bytes In	Time	Requests	Bytes In
First View (Run 1)	0.468s	-	0.507s	0.000s	99999	0.507s	0	0.490s	1	0 KB	0.741s	2	0 KB

Images	Colordepth	domInteractive	domContentLoaded	loadEvent
[]	24	0.489s	0.489s - 0.490s (0.001s)	0.490s - 0.490s (0.000s)

Waterfall View

Connection View