

# SUMMER INTERNSHIP PROJECT REPORT

## BUILDING UI FOR A DIGITAL LIBRARY

A report submitted in partial fulfilment of the requirements for the Award of Degree

**MASTERS OF COMPUTER APPLICATION**

By

**DHAIRYASHIL DHANANJAY PATIL**

**URN NO: 2022-M-3102001**

UNDER THE GUIDANCE OF

**Dr. Sagar kamble sir,**

**FLAME University, Pune**

(Duration: May 2023 – August 2023)



**AJEENKYA**  
D Y PATIL UNIVERSITY  
THE INNOVATION UNIVERSITY

School of  
Engineering



**FLAME**  
UNIVERSITY



Centre for  
Knowledge  
Alternatives

**DEPARTMENT OF MASTERS OF COMPUTER APPLICATION**

**AJEENKYA D T PATIL SCHOOL OF ENGINEERING**

**LOHEGAON, PUNE, MAHARASHTRA**

# CERTIFICATE

This is to certify that the “ Internship report “ submitted by **Dhairyashil Dhananjay Patil(2022-M-23102001)** is work done by her and submitted during 2022-2023 academic year , in partial Fulfilment of the requirements for the award of the degree of Masters of Computer Application At Flame University, Pune

Guide:

**Dr.Sagar Kamble**

**Prof. Nilofer**

**Placement Coordinator**

**Ruturaj Sing**

# **DECLARATION**

We hereby declare that this project report titled Real-time face mask detection submitted in fulfilment of the degree of Masters of Computer Application is a record of original work carried out by me under the supervision of Dr. Sagar kamble , and has not formed the basis for the award of any other degree or diploma, in this or any other Institution or University. In keeping with the ethical practice of reporting scientific information, due acknowledgments have been made wherever the findings of others have been cited.

**Dhairyashil Dhananjay Patil(2022-M-23102001)**

## **ACKNOWLEDGMENT**

We take this opportunity to thank project Guide Dr. Sagar Kamble and other faculty members who helped in preparing the guidelines. We extend our sincere thanks to one and all of the ADYPU family for the completion of this document on the project report format guidelines

**Dhairyashil Dhananjay Patil(2022-M-23102001)**

# INTRODUCTION

About FLAME: FLAME University is the pioneer of liberal education in India, delivering a premier interdisciplinary educational experience. Arguably one of the best universities in the country on humanities education, it has become one of the most respected and reputed centres of learning social sciences at UG level in India. It has been established as a state private university vide the FLAME University Act 2014 (Maharashtra Act No. II of 2015). It has been setup with an idealistic vision and a social commitment to contribute to society. With more than 120 quality full-time faculty members, and a student-teacher ratio of 11:1, we have a flourishing ecosystem for research and higher learning. Spread on 60 acres of green expanse in Pune, the campus currently consists of five schools: FLAME School of Liberal Education, FLAME School of Business, FLAME School of Communication, FLAME School of Computing and Data Sciences and FLAME School of Design, Art and Performance.

## **ABSTRACTION**

In the ever-evolving landscape of education and learning, academic institutions such as Flame University are compelled to explore novel avenues to enrich the educational experience of their students and faculty. The contemporary educational paradigm is marked by the seamless integration of technology into the fabric of learning, and at the forefront of this digital transformation stands the concept of the digital library. It is within this dynamic context that we embark on a journey to conceptualize and create a cutting-edge User Interface (UI) for Flame University's digital library, one that is poised to redefine the way academic resources are accessed and explored. This UI will feature an interactive map of India and will be meticulously crafted using a blend of HTML, CSS, JavaScript, and Bootstrap technologies.

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## **Executive Summary**

The **Digital Library User Interface (UI) with Interactive Indian Map** project aimed to create an innovative platform for Flame University's digital library. This UI, developed using HTML, CSS, JavaScript, and Bootstrap technologies, featured an interactive map of India to enhance the user experience. The project successfully met its objectives by providing a dynamic, user-friendly, and visually engaging interface for accessing academic resources.



## **Project Objectives**

The primary objectives of this project were as follows:

- **Create a Digital Library UI:** Develop a modern and intuitive UI for Flame University's digital library, providing easy access to academic resources.
- **Integrate an Interactive Indian Map:** Implement an interactive map of India within the UI to allow users to explore academic resources based on geographic locations.
- **Ensure Responsiveness:** Ensure that the UI is responsive and compatible with various devices and screen sizes.
- **Enhance User Experience:** Create a visually appealing and user-friendly interface to improve the overall user experience.

## **Project Scope**

The scope of the project included:

- Designing and developing the UI for the digital library.
- Integrating an interactive Indian map.
- Implementing search functionality for resource discovery.
- Creating user profiles and a recommendation system.
- Ensuring cross-browser compatibility and mobile responsiveness.
- Providing user documentation for seamless navigation.

## **Project Methodology**

The project followed the Agile methodology, with iterative development cycles to accommodate feedback from stakeholders. Weekly meetings were held with the project supervisor to review progress and make necessary adjustments.

## **Technologies Used**

The following technologies were utilized in the project:

- HTML for structuring the content.
- CSS for styling the UI.
- JavaScript for interactivity.
- Bootstrap for responsive design.

## **Project Design and Architecture**

The project's design encompassed the following components:

- ❖ **Digital Library UI:** Designed to be intuitive and visually appealing.
- ❖ **Interactive Indian Map:** Integrated into the UI to facilitate geographic resource discovery.
- ❖ **Search Functionality:** Implemented with filters and advanced search options.

- ❖ **User Profiles:** Created for personalized resource management.
- ❖ **Recommendation System:** Employed to suggest relevant resources based on user behaviour.
- ❖ **Responsive Design:** Ensured compatibility across devices.

## **Implementation Details**

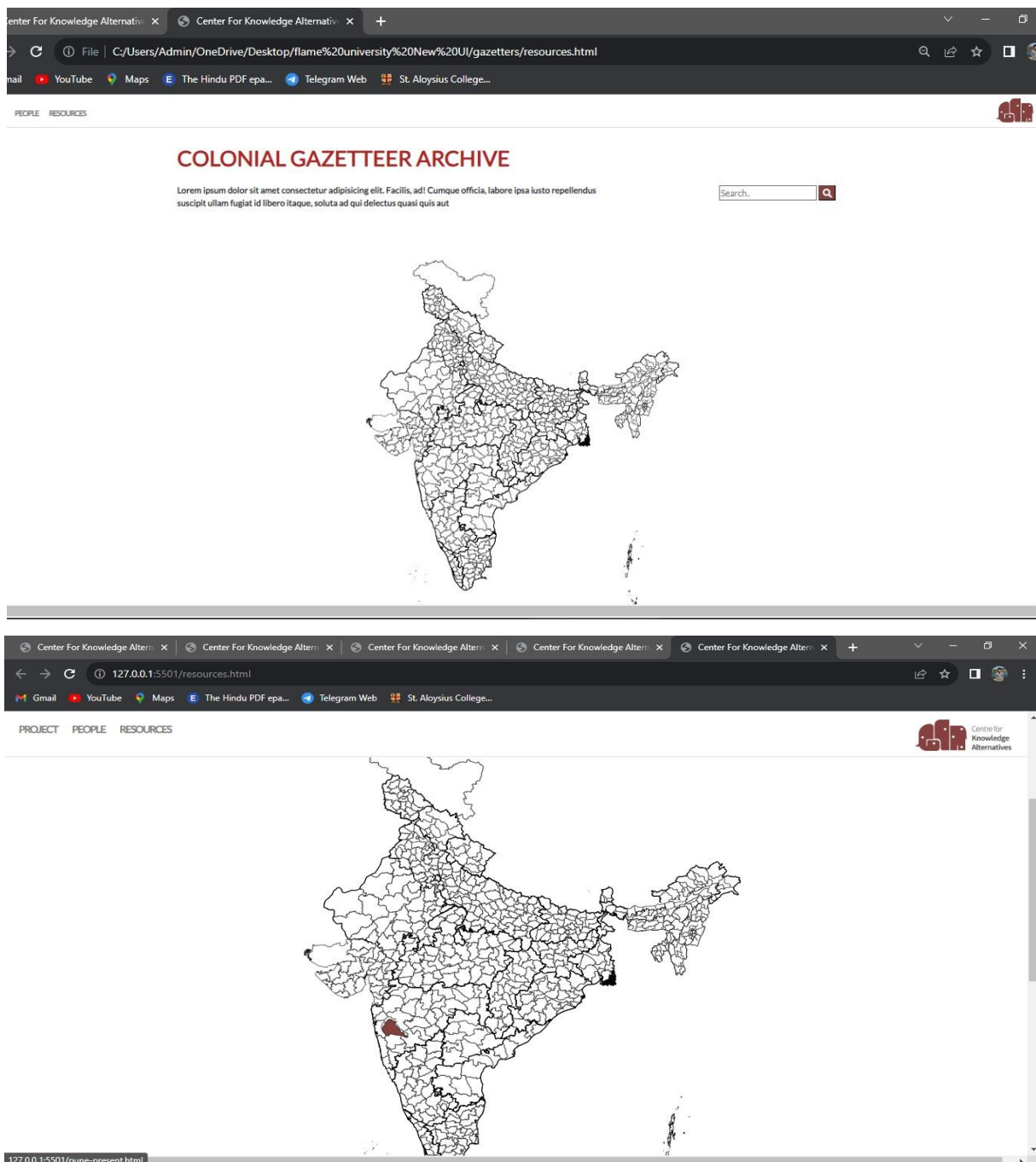
### **UI Development**

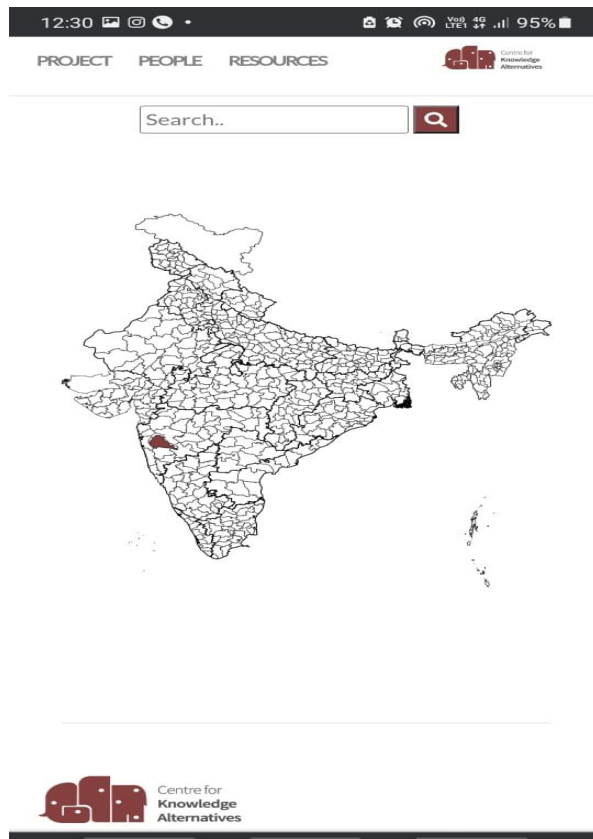
The UI development phase involved the creation of a visually appealing and user-friendly interface. HTML and CSS were extensively used to structure and style the digital library's pages.

## Homepage:-

The homepage was designed to welcome users and provide easy access to various sections of the digital library.

## Homepage Screenshot

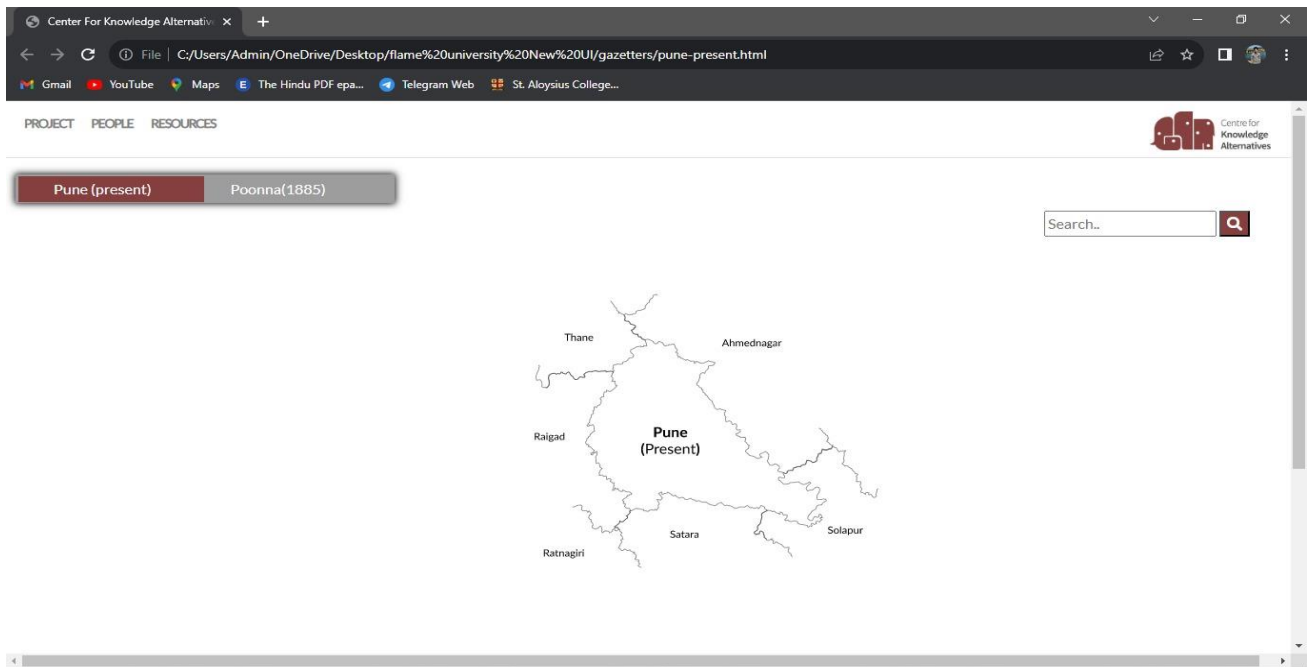




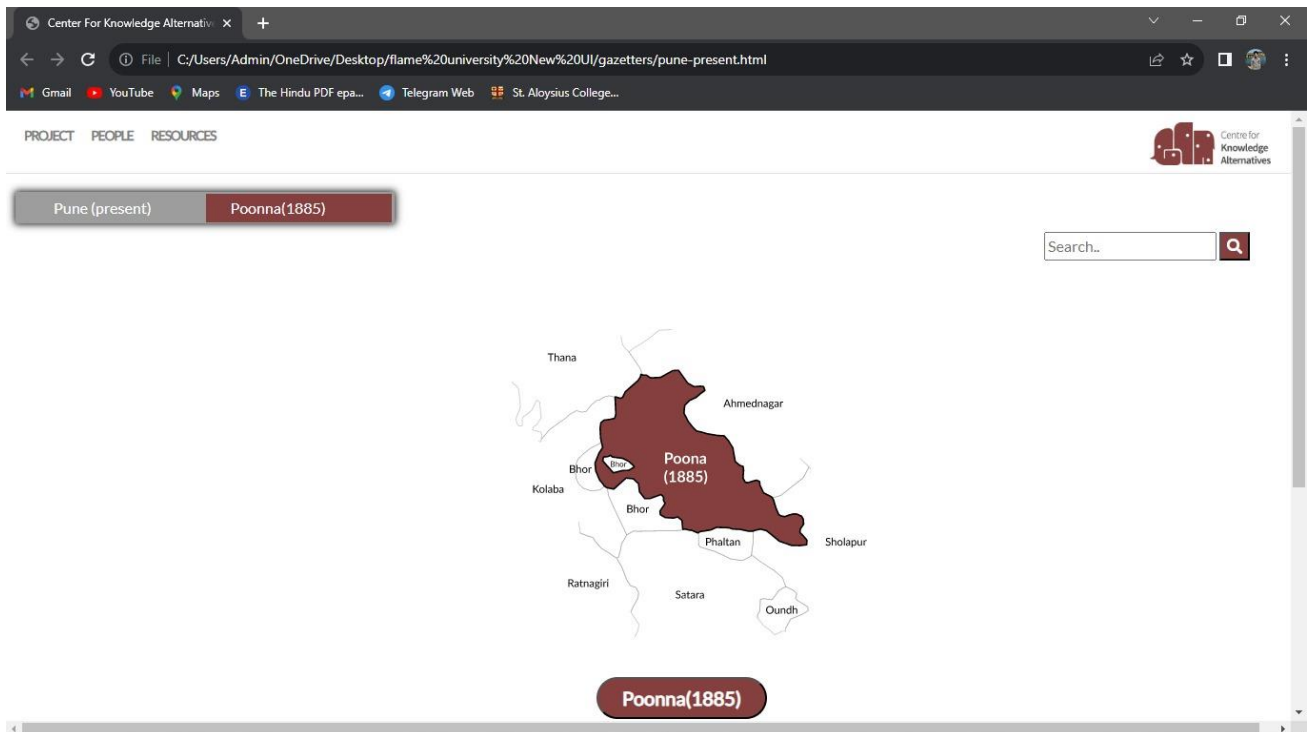
The homepage featured:

- A search bar for resource discovery.
- An interactive Indian map highlighting different regions.
- Quick links to popular categories and resources.

# Pune District



1

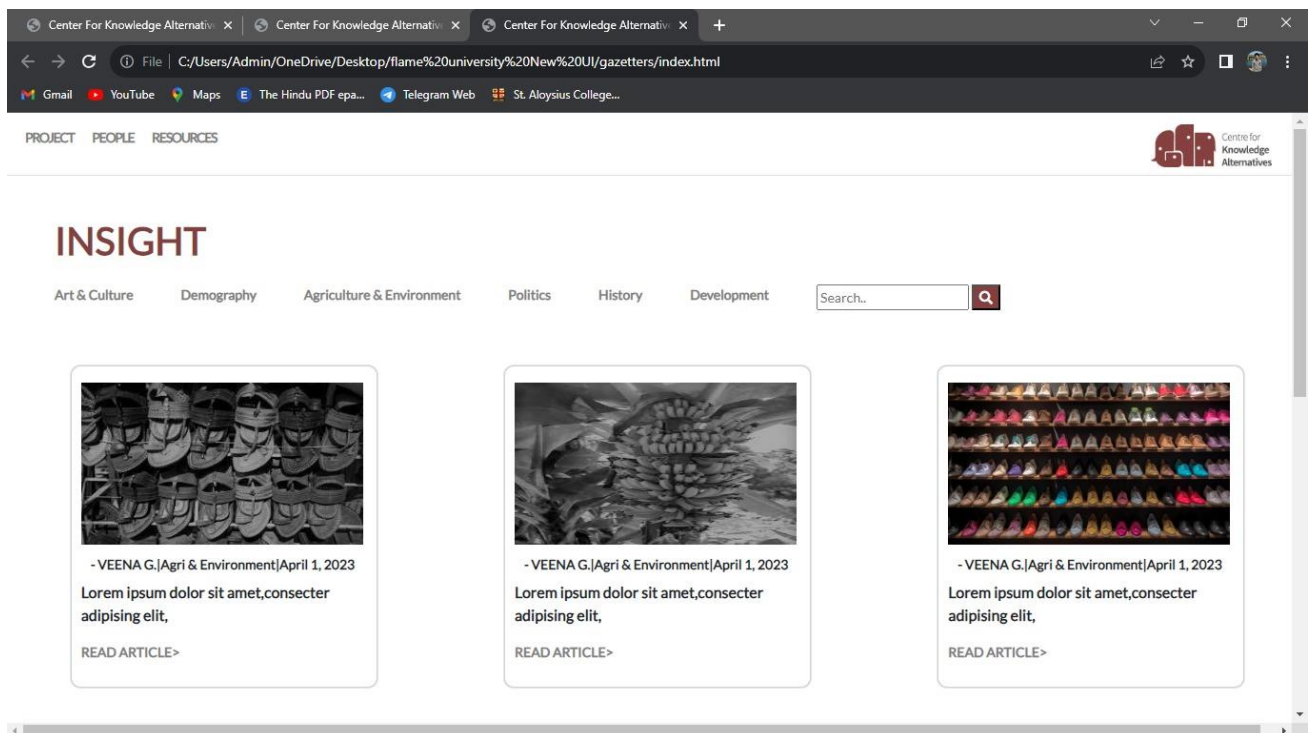


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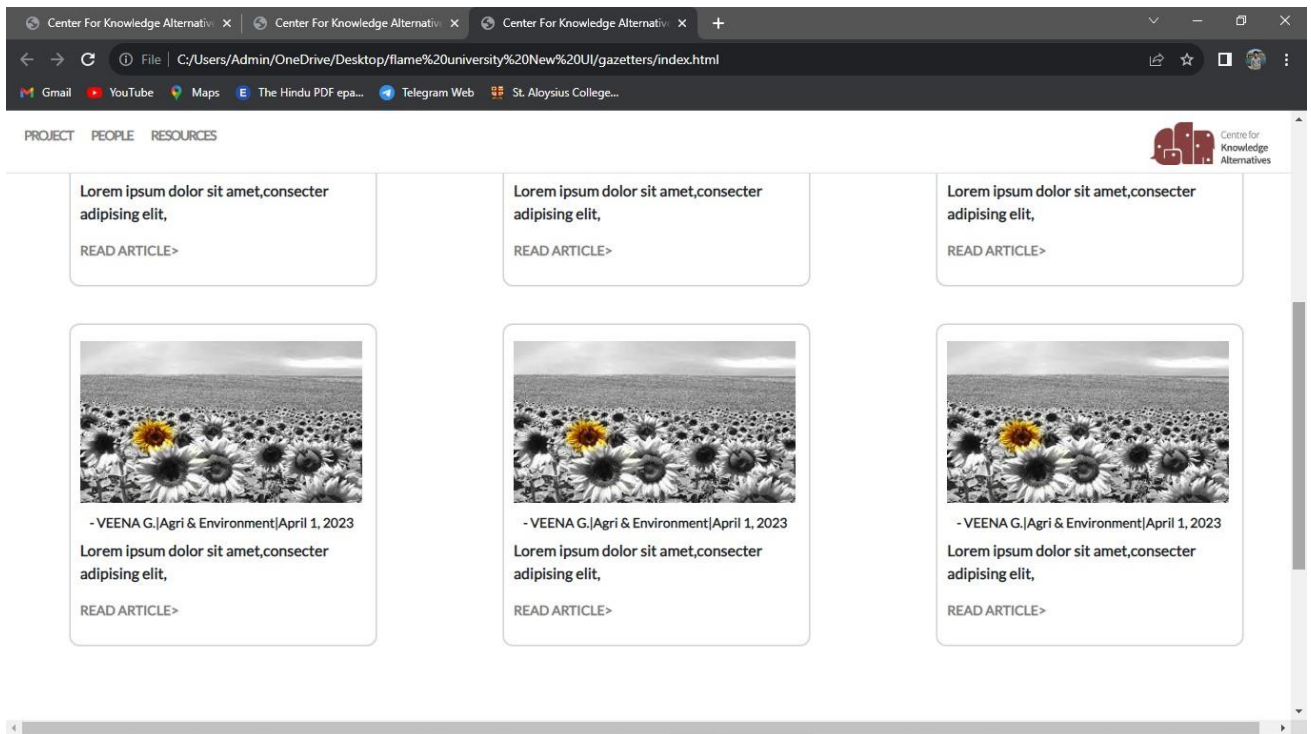
# FOOTER



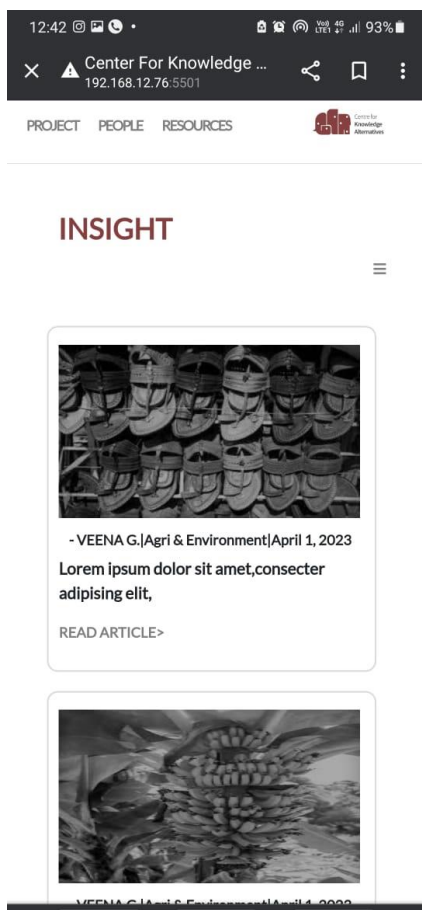
# Insight pages



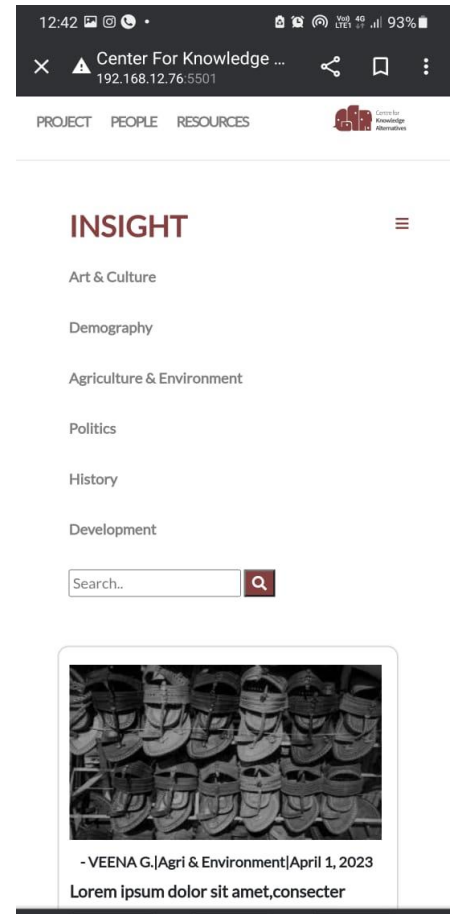




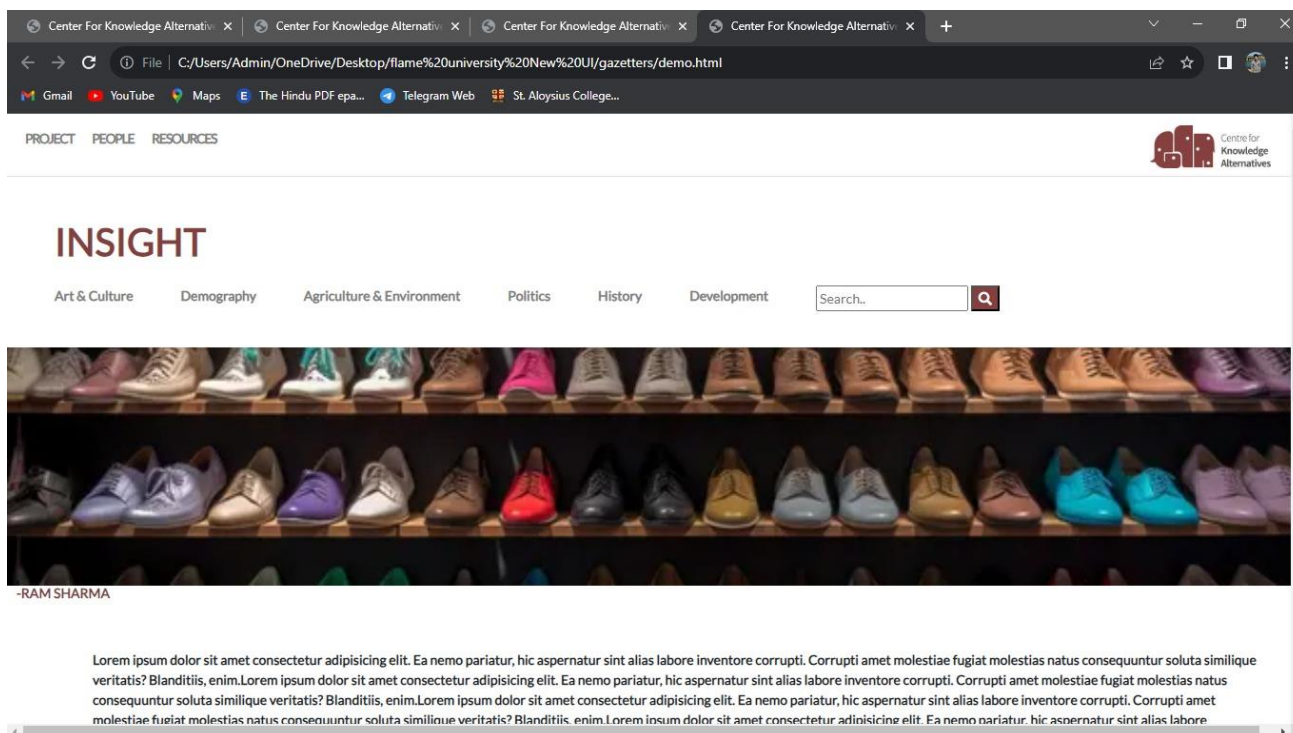
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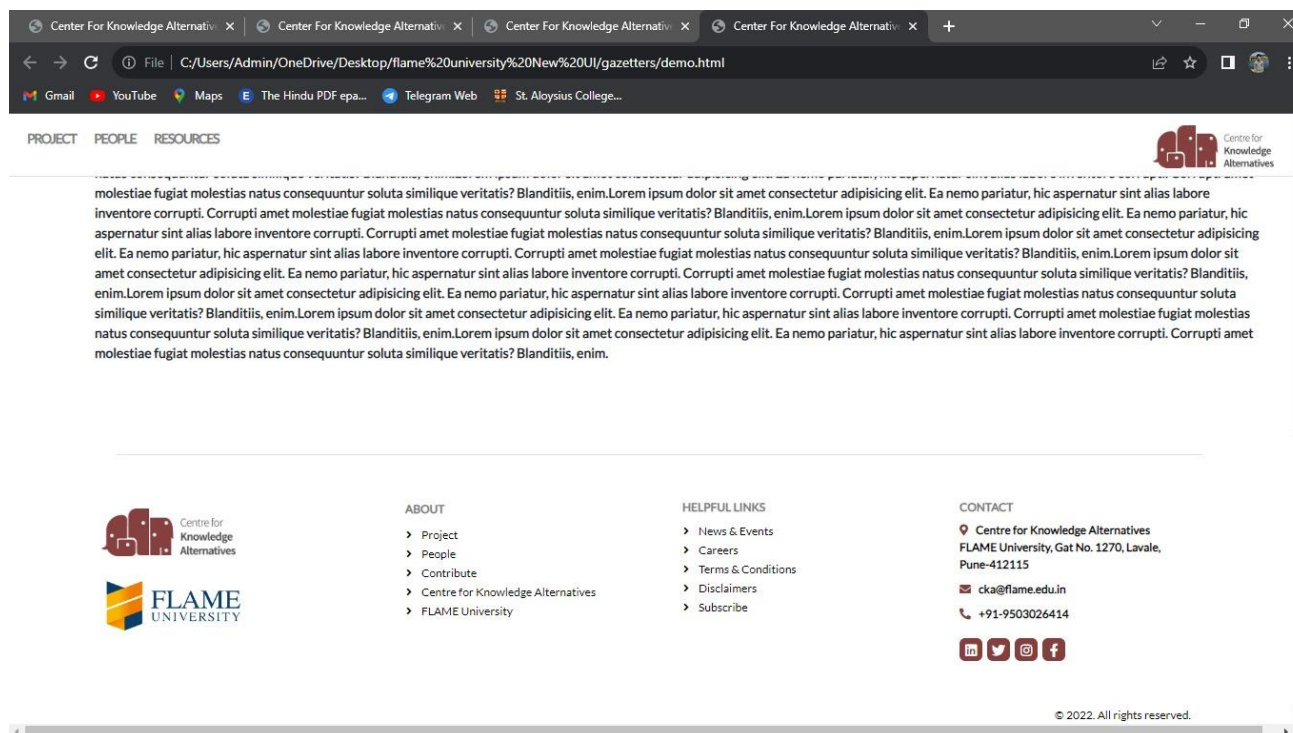
3



4



5



6

## **Responsive Design**

Bootstrap was employed to ensure that the UI was responsive and compatible with various devices and screen sizes. Rigorous testing was conducted to verify cross-browser compatibility.

## **Key Features**

The key features of the Digital Library UI include:

- ❖ Interactive Indian map for geographic resource exploration.
- ❖ User-friendly search functionality with advanced filters.
- ❖ User profiles for resource organization.
- ❖ Resource recommendation system based on user behaviour.
- ❖ Responsive design for compatibility across devices.

## **Challenges Faced**

Several challenges were encountered during the project, including:

- ❖ Integrating an interactive map with real-time data.
- ❖ Ensuring optimal performance with large datasets.
- ❖ Cross-browser compatibility and responsive design complexities.

## **Solutions Implemented**

To address the challenges, the following solutions were implemented:

- Utilized JavaScript libraries for map integration.
- Implemented efficient data caching and retrieval.
- Employed Bootstrap for responsive design and rigorous testing for cross-browser compatibility.

## **Testing and Quality Assurance**

A thorough testing phase was conducted to ensure the functionality, performance, and security of the UI. Testing included unit testing, integration testing, and user acceptance testing.

## **User Documentation**

User documentation was created to guide users through the features and functionalities of the Digital Library UI. This documentation can be accessed on the UI itself.

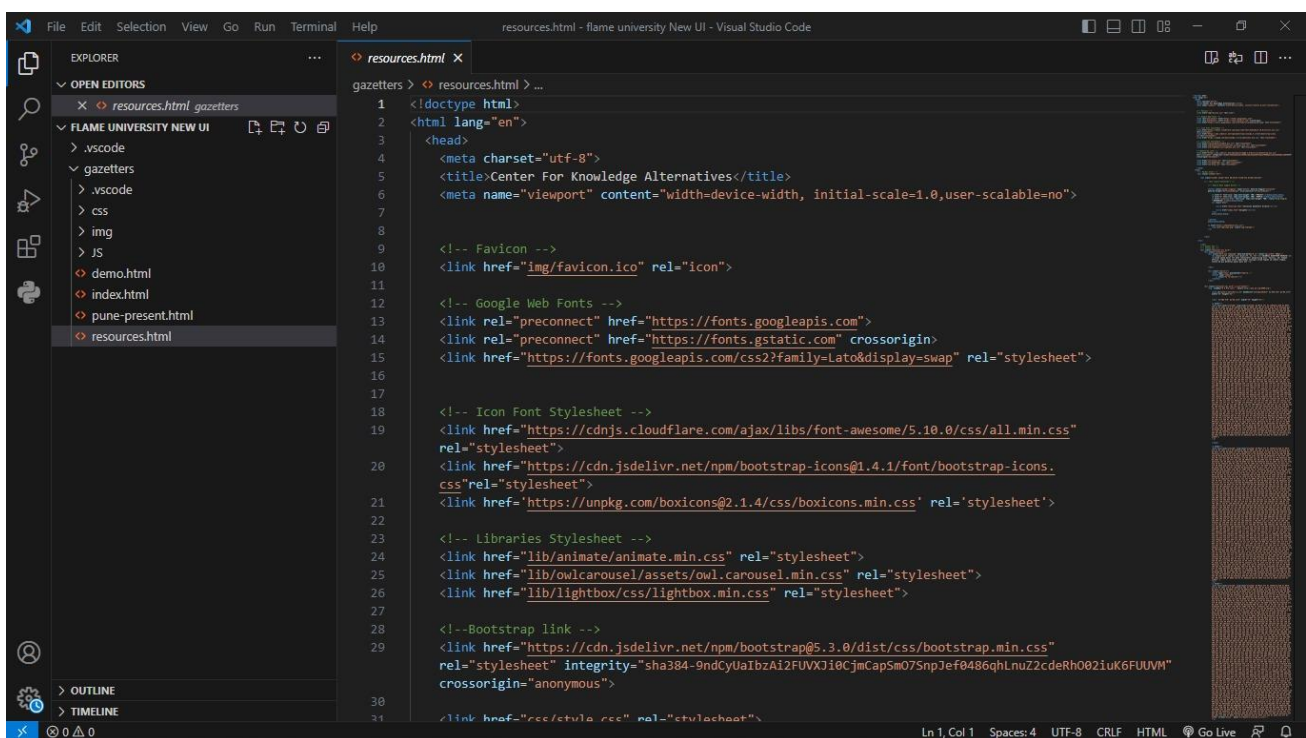
## **Conclusion**

The Digital Library UI with an Interactive Indian Map project successfully achieved its objectives, providing Flame University with a cutting-edge platform for academic resource exploration. The UI's user-friendly design and interactivity have enhanced the overall user experience,

contributing to the institution's commitment to excellence in education.

## Appendices

Code: -



```
1 <!doctype html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <title>Center For Knowledge Alternatives</title>
6     <meta name="viewport" content="width=device-width, initial-scale=1.0,user-scalable=no">
7
8
9     <!-- Favicon -->
10    <link href="img/favicon.ico" rel="icon">
11
12    <!-- Google Web Fonts -->
13    <link rel="preconnect" href="https://fonts.googleapis.com">
14    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
15    <link href="https://fonts.googleapis.com/css2?family=Lato&display=swap" rel="stylesheet">
16
17
18    <!-- Icon Font Stylesheet -->
19    <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css"
20    rel="stylesheet">
21    <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.
22    css"rel="stylesheet">
23    <link href="https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css" rel="stylesheet">
24
25    <!-- Libraries Stylesheet -->
26    <link href="lib/animate/animate.min.css" rel="stylesheet">
27    <link href="lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">
28    <link href="lib/lightbox/css/lightbox.min.css" rel="stylesheet">
29
30    <!-- Bootstrap link -->
31    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
32    rel="stylesheet" integrity="sha384-9ndCyUaIbzAi2FUVXJi0CjmcCapSmo7Snp7ef0486ghLnuZ2cdeRh002iuk6FUUVW"
33    crossorigin="anonymous">
34
35    <link href="css/etula.css" rel="stylesheet">
```





```
resources.html - flame university New UI - Visual Studio Code
gazetters > resources.html > html > body > div.container-xl.py-5 > div.container > div.container-xl.py-5 > svg > a > path
100 </mask>
107
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109 <a href="">
110 <path fill-rule="evenodd" clip-rule="evenodd" d="M214.577 87.1295C215.029 87.0675 215.
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114 </a>
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126
127 <rect x="229.105" y="112.995" width="19" height="37"/>
128
129 <a href="">
130 <path fill-rule="evenodd" clip-rule="evenodd" d="M232.987 139.925C232.894 139.925 232.
131 </a>
132
133 </mask>
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135 <a href="">
136 <path fill-rule="evenodd" clip-rule="evenodd" d="M232.987 139.925C232.894 139.925 232.
137 </a>
138 <a href="">
139 <path fill-rule="evenodd" clip-rule="evenodd" d="M232.987 139.925C232.894 139.925 232.
140 </a>
```

Ln 139, Col 89 Spaces: 4 UTF-8 CRLF HTML Go Live

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resources.html - flame university New UI - Visual Studio Code
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133 </mask>
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135 <a href="">
136 <path fill-rule="evenodd" clip-rule="evenodd" d="M232.987 139.925C232.894 139.925 232.
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139 <path fill-rule="evenodd" clip-rule="evenodd" d="M232.987 139.925C232.894 139.925 232.
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148 </mask>
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150 <path fill-rule="evenodd" clip-rule="evenodd" d="M248.887 115.587C249.141 115.731 249.
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```

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resources.html - flame university New UI - Visual Studio Code
EXPLORER
  OPEN EDITORS
    resources.html gazettters
  FLAME UNIVERSITY NEW UI
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    gazettters
    .vscode
    css
    img
    JS
    demo.html
    index.html
    pune-present.html
    resources.html
  OUTLINE
  TIMELINE

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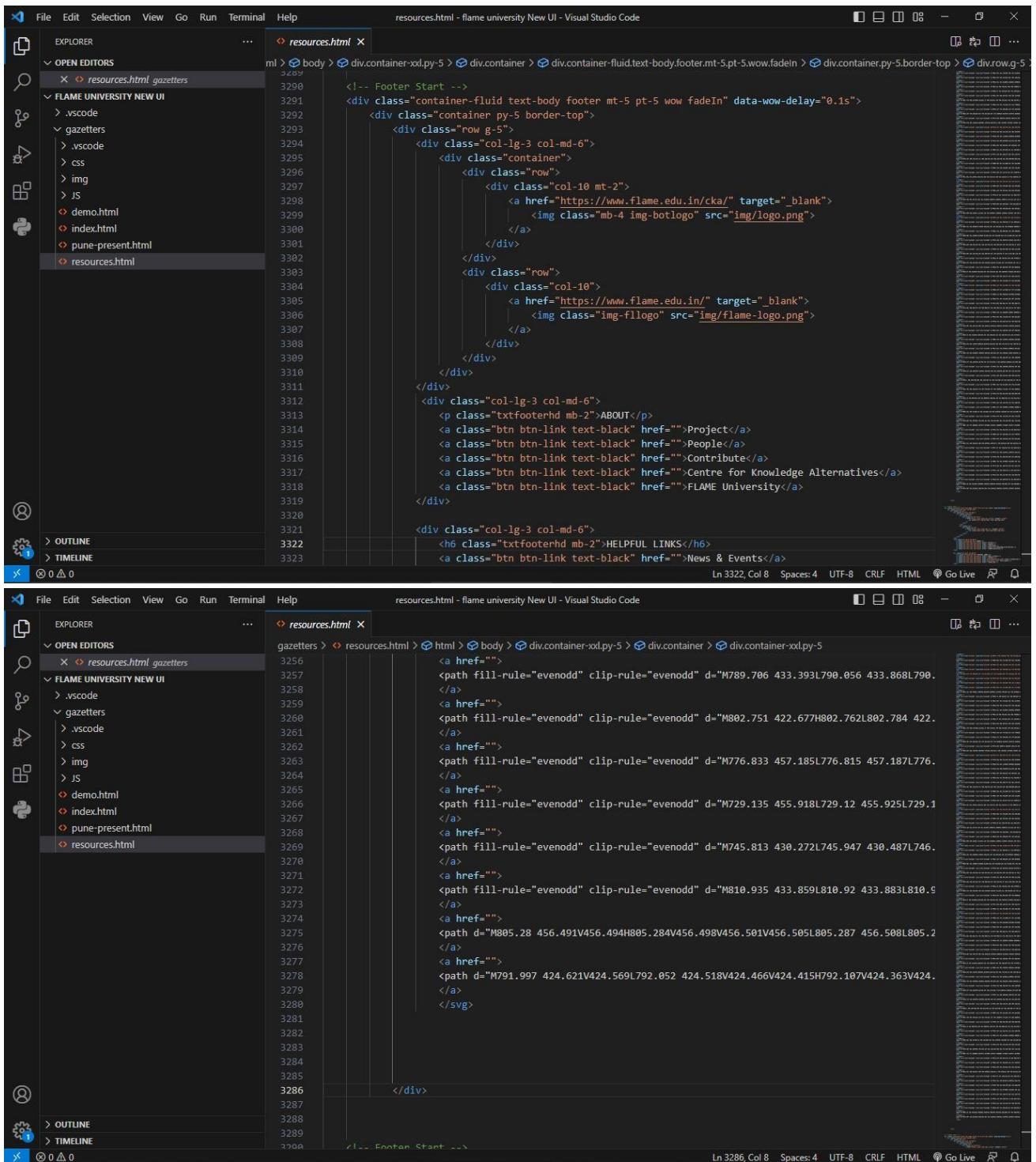
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<path fill-rule="evenodd" clip-rule="evenodd" d="M217.832 143.108C218.398 143.536 218.
Ln 202, Col 32 Spaces: 4 UTF-8 CRLF HTML Go Live
```

```
resources.html - flame university New UI - Visual Studio Code
EXPLORER
  OPEN EDITORS
    resources.html gazettters
  FLAME UNIVERSITY NEW UI
    .vscode
    gazettters
    .vscode
    css
    img
    JS
    demo.html
    index.html
    pune-present.html
    resources.html
  OUTLINE
  TIMELINE

gazettters > resources.html > html > body > div.container-xl.py-5 > div.container > div.container-xl.py-5 > svg > a
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Ln 247, Col 32 Spaces: 4 UTF-8 CRLF HTML Go Live
```

The image displays two screenshots of the Visual Studio Code editor, showing the 'resources.html' file. The top screenshot shows the file with a large number of SVG path elements, each with a 'd' attribute containing a long string of numbers. The bottom screenshot shows the same file with a different set of SVG path elements, also with long 'd' attributes. The editor interface includes the Explorer, Open Editors, and Run and Debug panels.





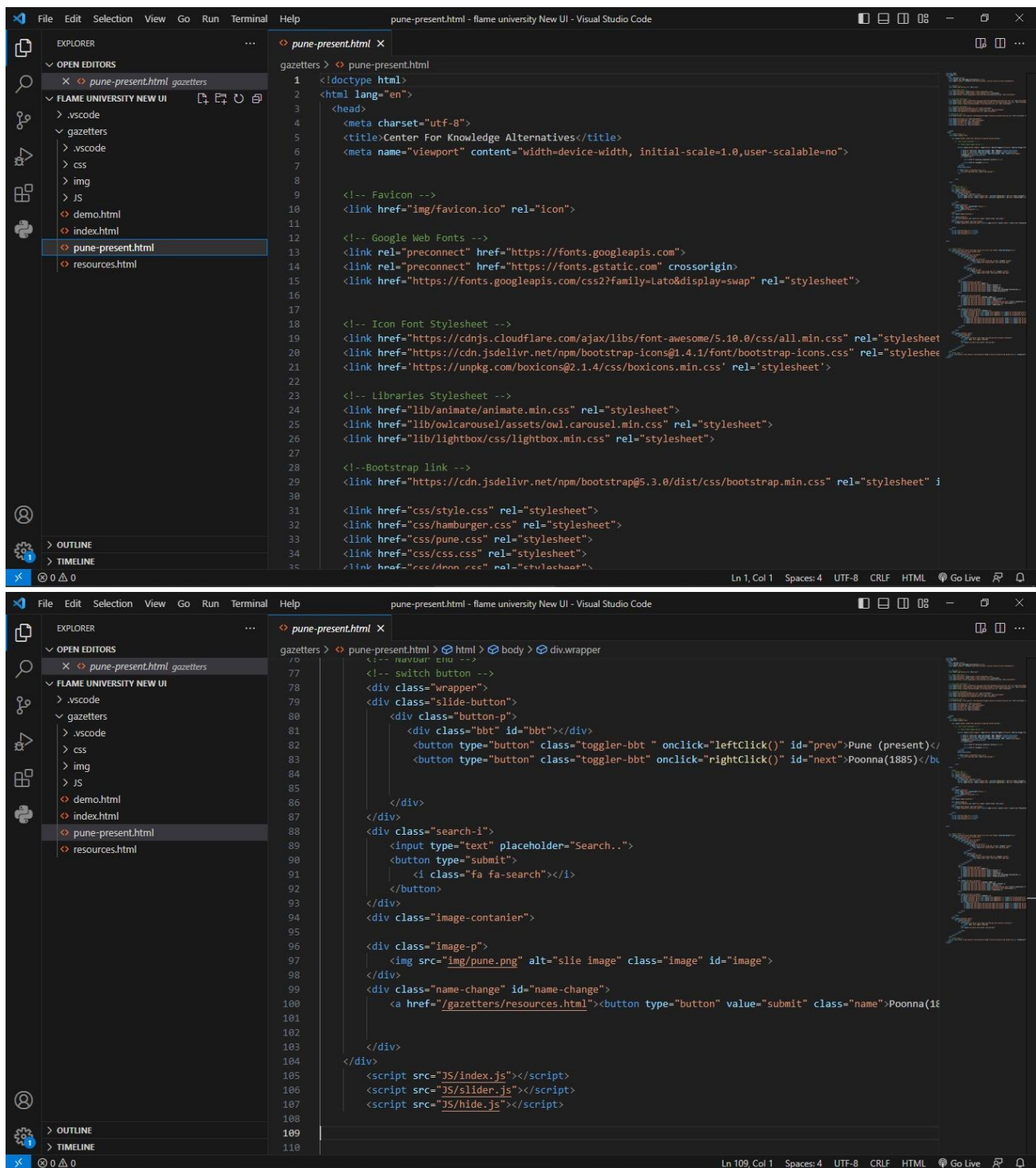
The image displays two screenshots of a Visual Studio Code editor window, showing HTML code for a website project named 'flame university New UI'.

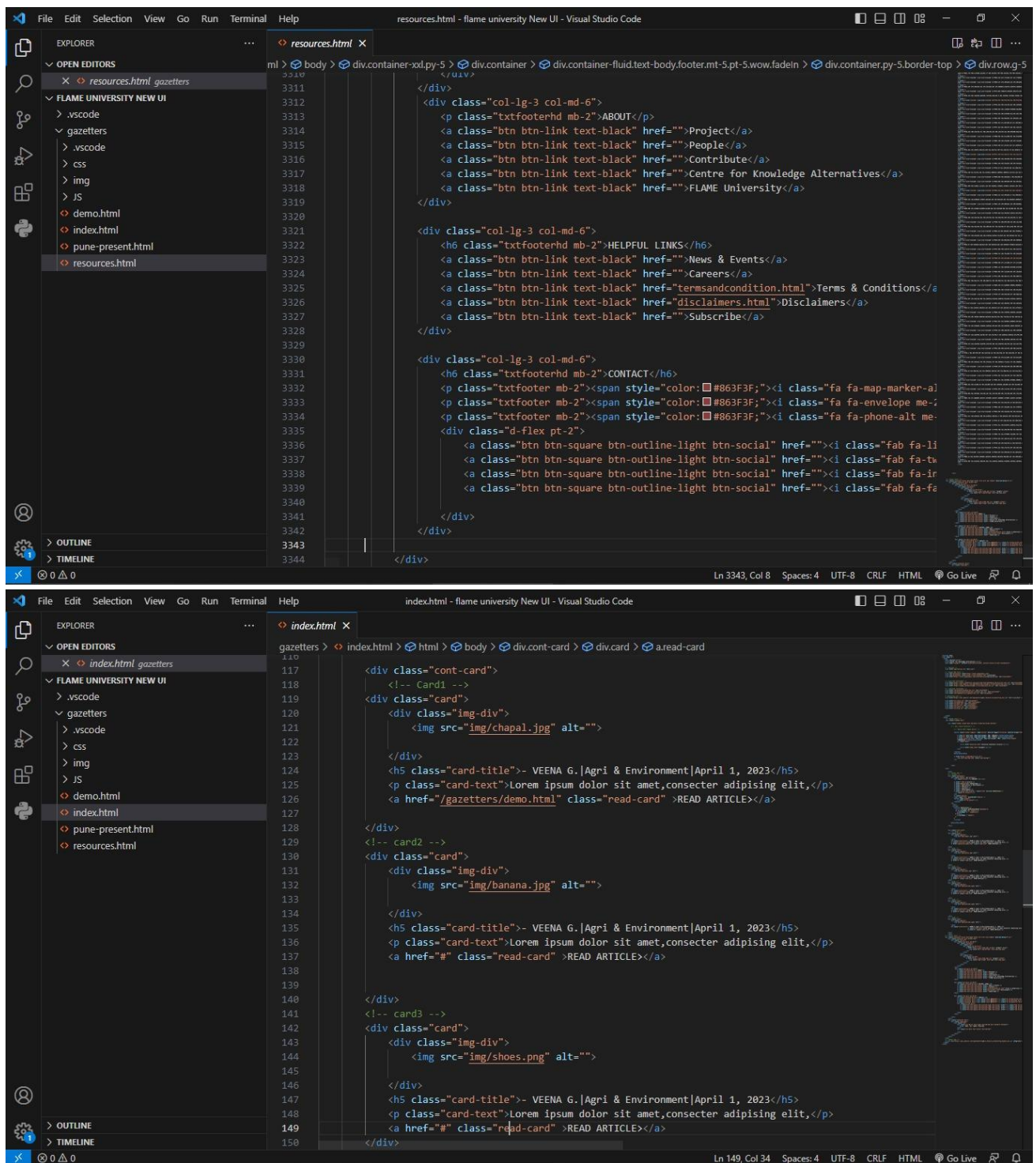
**Top Screenshot: pune-present.html**

The Explorer panel on the left shows the project structure, including files like `pune-present.html`, `resources.html`, `index.html`, `demo.html`, `css`, `img`, `JS`, and `gazetters`. The main editor displays the HTML code for `pune-present.html`, showing a sidebar navigation menu structure. The code includes a `Navbar Start` comment, a `div class="sidebar-nav"`, and a `nav class="navbar navbar-dark bg-white fixed-top border-bottom"`. Inside the nav, there's a `div class="container"` containing a `Mobile Menu Toggle Button` (a `button class="navbar-toggler"`) and a `menu` (a `ul class="menu"`) with links for `PROJECT`, `PEOPLE`, `RESOURCES`, `Colonial Gazetteers Archive`, and `Insights`. There's also a link to `https://indiandistricts.in/` and an `img` tag for `img/logo.png`.

**Bottom Screenshot: resources.html**

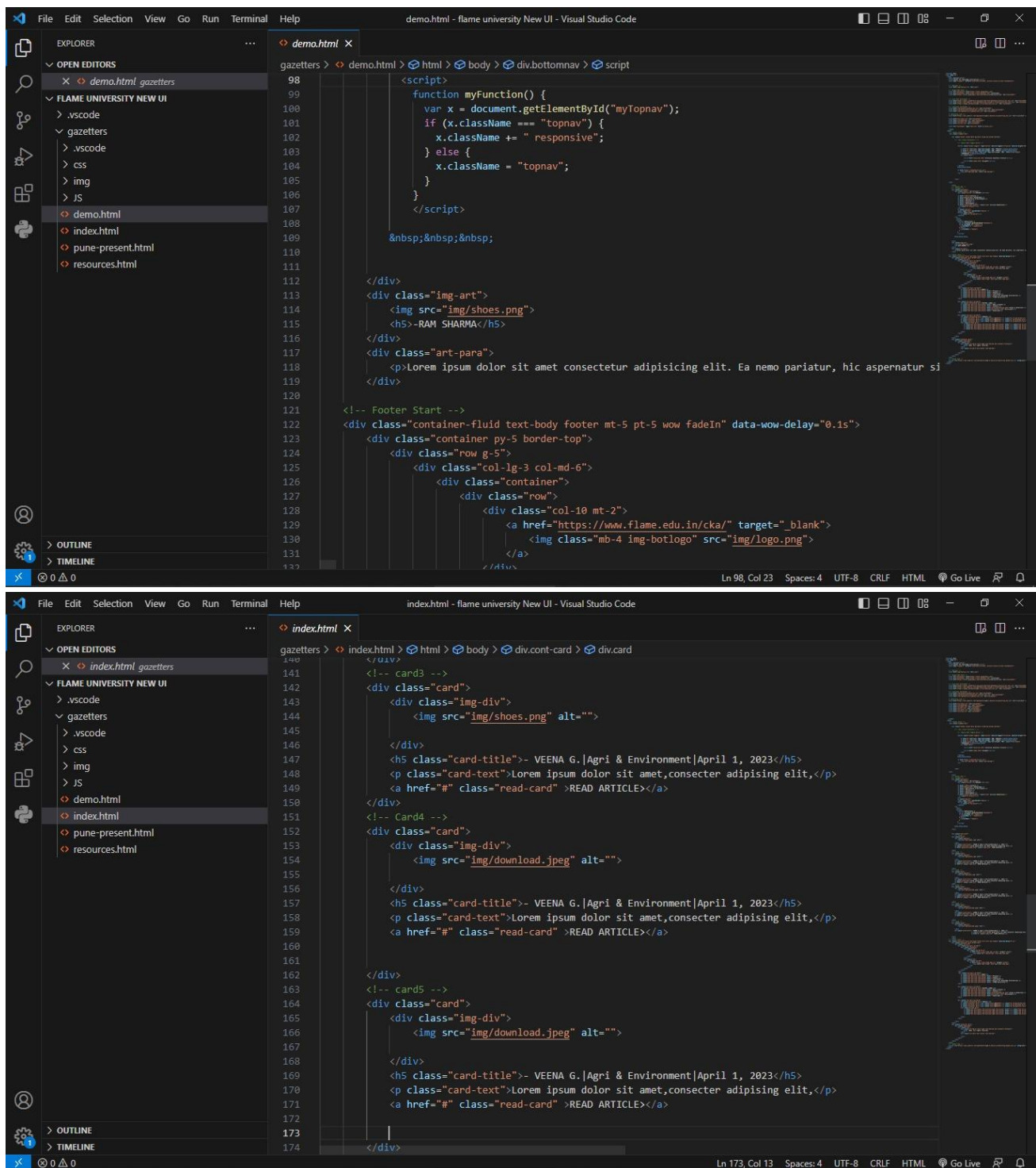
The Explorer panel on the left shows the project structure, including files like `resources.html`, `index.html`, `demo.html`, `css`, `img`, `JS`, and `gazetters`. The main editor displays the HTML code for `resources.html`, showing a footer section. The code includes a `div class="col-lg-3 col-md-6"` containing a `h6 class="textfooterhd mb-2">CONTACT</h6>`, a `p class="textfooter mb-2"><span style="color: #863F3F;"><i class="fa fa-map-marker-al, a p class="textfooter mb-2"><span style="color: #863F3F;"><i class="fa fa-envelope me-, a p class="textfooter mb-2"><span style="color: #863F3F;"><i class="fa fa-phone-alt me-, and a div class="d-flex pt-2" containing four a class="btn btn-square btn-outline-light btn-social" href=""><i class="fab fa-li buttons. Below this, there's a div class="container mb-3" containing a div class="copyright" with a div class="row" containing a div class="col-md-12 text-right text-md-end mb-3 mb-md-0 textfooter"> and a div class="col-md-6 text-center text-md-end">.`



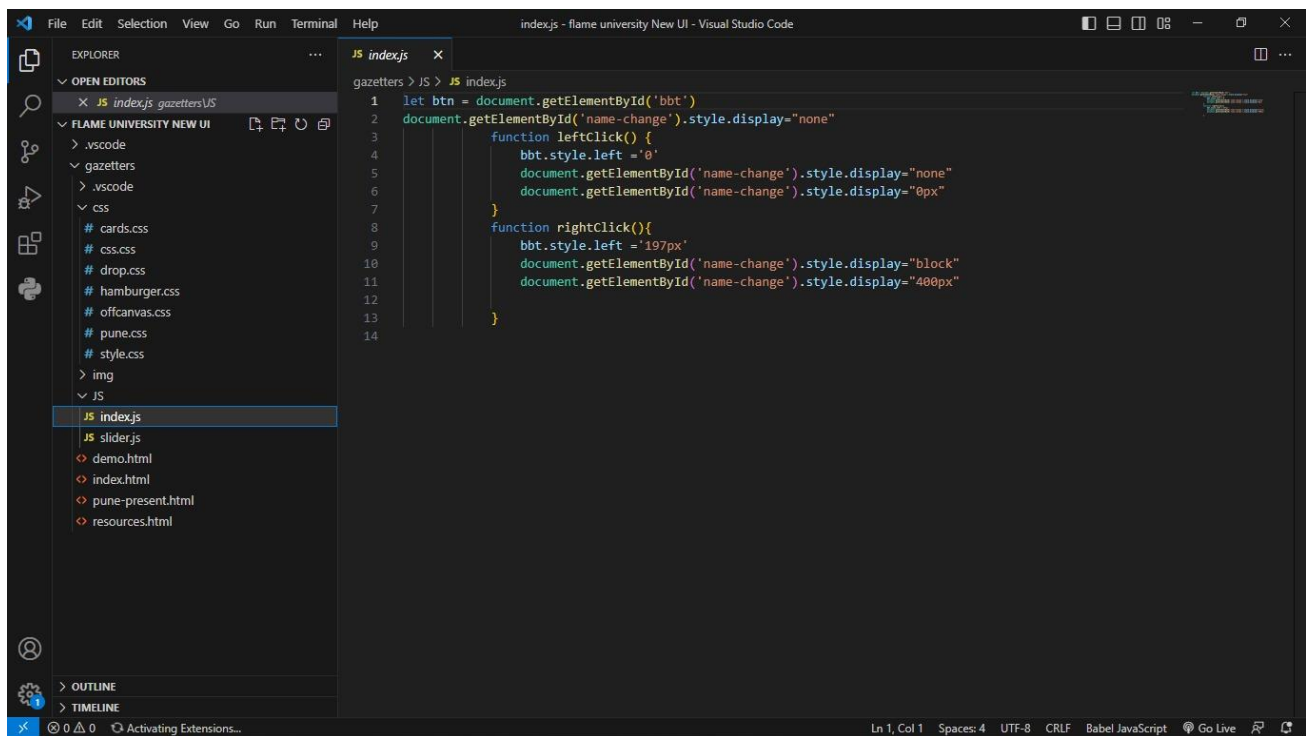




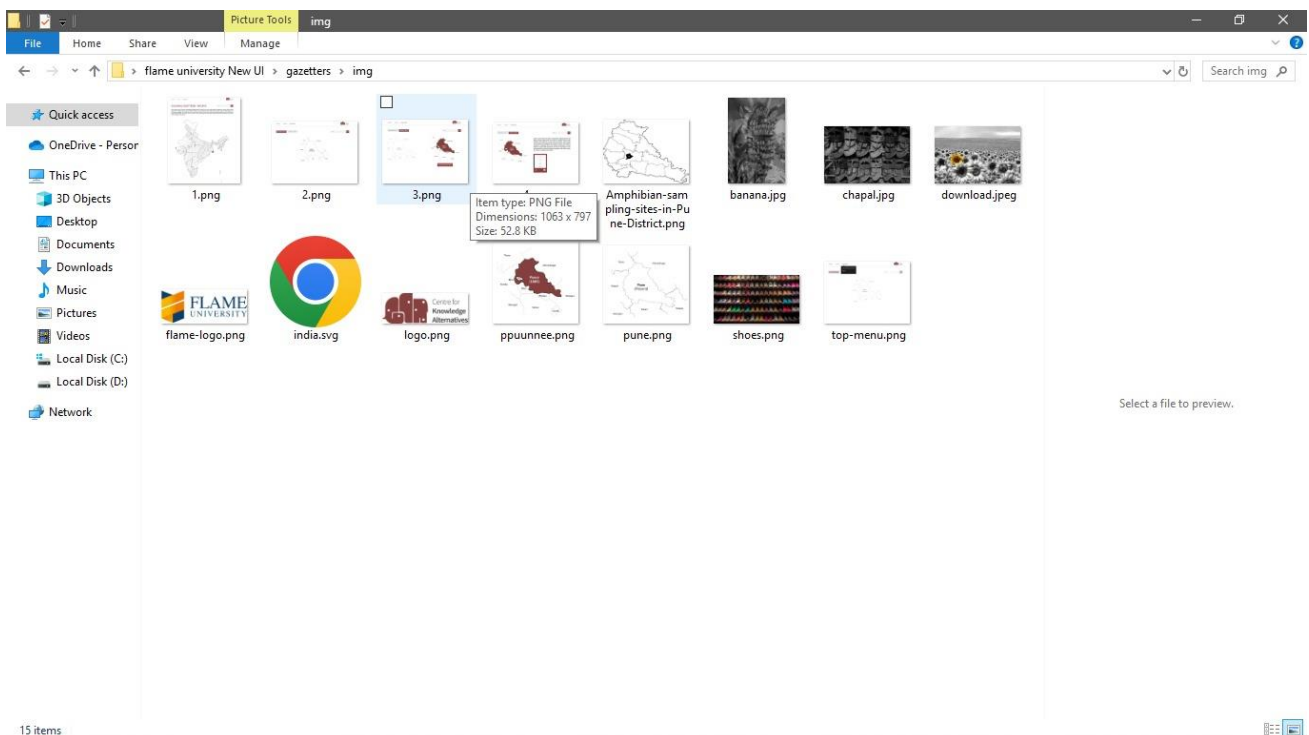


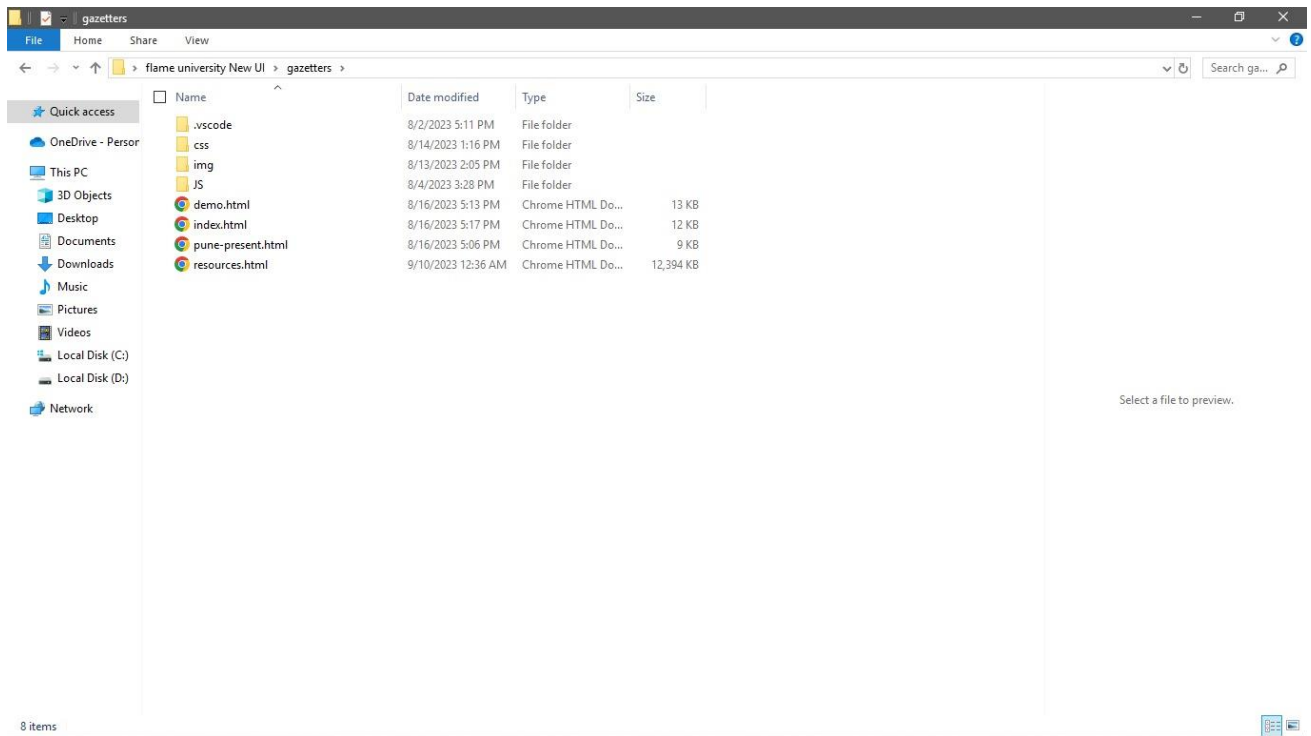






## Files: -





# Thank You