Scholarship Portal for Manipal Academy of Higher Education

Team Members:
Harshita Gupta - 210911224 - 39
Harsh Vardhan Mishra - 210911268 - 45
Aastha Sinha - 210911320 - 54
Charu Yadav - 210911396 - 69

Internet Tools and Technology Lab - ICT 3266

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1 Introduction:

Navigating through the myriad of scholarship opportunities available at educational institutions can be daunting for prospective students. The Manipal Academy of Higher Education (MAHE), with its multiple campuses offering diverse scholarships, recognizes this challenge. In response, MAHE has initiated the development of a dedicated scholarship portal aimed at simplifying this complex process. This web portal serves as a centralized platform where students can easily access detailed information about various scholarships, assess their eligibility, and find pertinent contact details if they qualify. The project leverages front-end technologies such as HTML, CSS, and JavaScript, providing a user-friendly interface without the need for a backend database. This initiative not only streamlines the admission process but also ensures that students have clear, accessible paths to potentially life-changing financial aid resources.

2 Project Objectives:

- Simplify the Scholarship Search: Provide a user-friendly interface to facilitate easy navigation and access to scholarship information.
- Increase Accessibility: Ensure that students from all campuses of MAHE can find scholarships relevant to them without confusion.
- Improve Information Availability: Offer comprehensive details about each scholarship, including eligibility criteria and application processes.
- Enhance User Experience: Design the portal to be intuitive and straightforward, minimizing the need for external assistance.
- Plan for Scalability: Build the architecture with a view to incorporate additional scholarships and features in the future.

3 Design:

1. User Interface (UI) Design
    - Layout: The homepage is structured to showcase a variety of scholarships through interactive cards, each representing a different scholarship program offered by MAHE. These cards are designed to be visually appealing and informative, providing a snapshot of the scholarship details.
    - Navigation: A straightforward and intuitive navigation menu is implemented to guide users through the site. This includes clear categorization of scholarships based on faculties, levels (undergraduate, postgraduate, etc.), and other relevant criteria.
    - Responsiveness: The design is responsive, ensuring the portal is accessible and functional across a range of devices, including smartphones, tablets, and desktop computers.
2. User Experience (UX) Design:
    - Form: To enhance user experience, a form functionality is integrated along with filters to help students narrow down scholarships based on specific criteria like department, scholarship type (need-based, merit-based), and eligibility requirements.

- Information Architecture: Information is organized logically, ensuring users can easily follow the flow from general scholarship overviews to detailed eligibility and application procedures.
- Interactive Elements: Elements like expandable sections are used to provide additional information without cluttering the main interface.

3. Frontend Technologies
   - HTML: Used to structure the content on the web pages, providing the skeleton of the portal.
   - CSS: Applied to style the HTML content, ensuring the portal is aesthetically pleasing and aligns with MAHE's branding guidelines.
   - JavaScript: Utilized to create interactive and dynamic user experiences, handling form validations, dynamic content loading, and user interactions.
4. Accessibility Considerations
   - Contrast and Fonts: Care is taken to use high-contrast color schemes and readable fonts to make the content accessible to users with visual impairments.

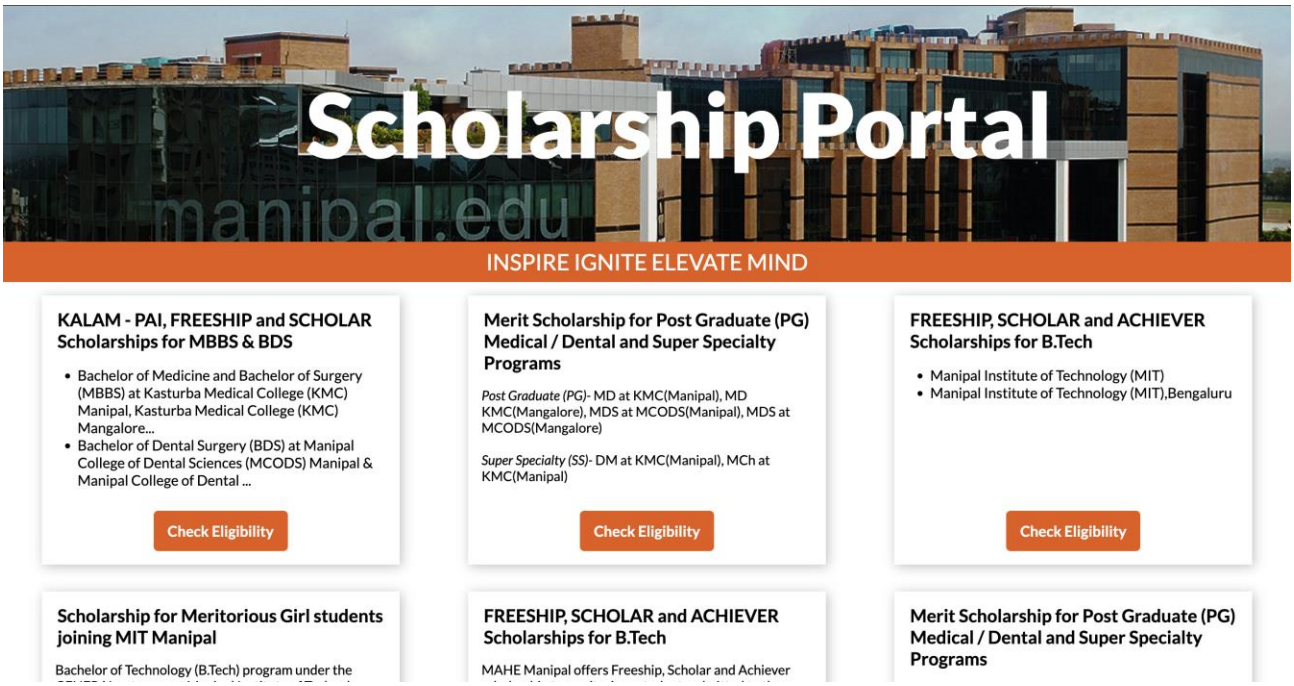

Figure 1: Index.html

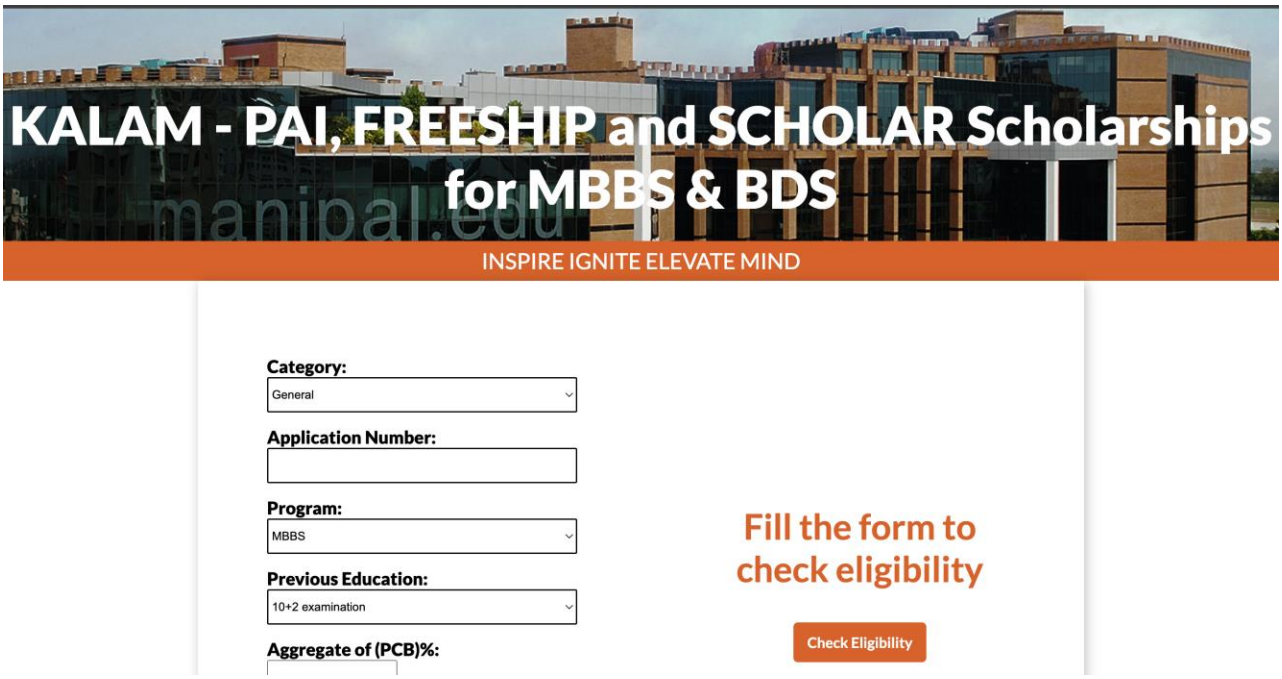

Figure 2: Scholarship Page

MAHE Manipal awards "Kalam – Pai", "Freeship" and "Scholar" scholarship for the following Under Graduate (UG) programs

- Bachelor of Medicine and Bachelor of Surgery (MBBS) at Kasturba Medical College (KMC) Manipal, Kasturba Medical College (KMC) Mangalore and Manipal TATA Medical College (MTMC) Jamshedpur
- Bachelor of Dental Surgery (BDS) at Manipal College of Dental Sciences (MCODS) Manipal & Manipal College of Dental Sciences (MCODS) Mangalore

Scholarship Guidelines:

- Eligibility Requirements

Program	Kalam - Pai Scholarship for NEET 2024 All India Rank	Free Ship Scholarship for NEET 2024 All India Rank	Scholar Scholarship for NEET 2024 All India Rank
MBBS	Rank 1 – 500	Rank 1 – 5,000	Rank 5,001 – 10,000
BDS	Rank 1 – 10,000	Rank 1 – 50,000	Rank 50,001 – 1,00,000

- Kalam-Pai Scholarship

Program	KMC Manipal	KMC Mangalore	MTMC Jamshedpur	MCODS Manipal	MCODS Mangalore
MBBS	1	1	1	-	-
BDS	-	-	-	1	1

This scholarship involves 100 % waiver of Course fee and Hostel fee.

- However, Candidates are required to pay the full first year course fee including Refundable Caution Deposit of Rs. 10,000 at the time of Reporting / completing the Admission formalities.
- The Kalam – Pai scholar will have to accept the Hostel allocation (Double attached non-AC) by MAHE Manipal. In case the Kalam – Pai scholar opts for upgradation of hostel (if available), he / she is required to pay the differential hostel fee.
- The Kalam – Pai scholar MUST take care of other expenses like food, books and other academic material requirements.

Figure 3: Scholarship Page(Cont.)

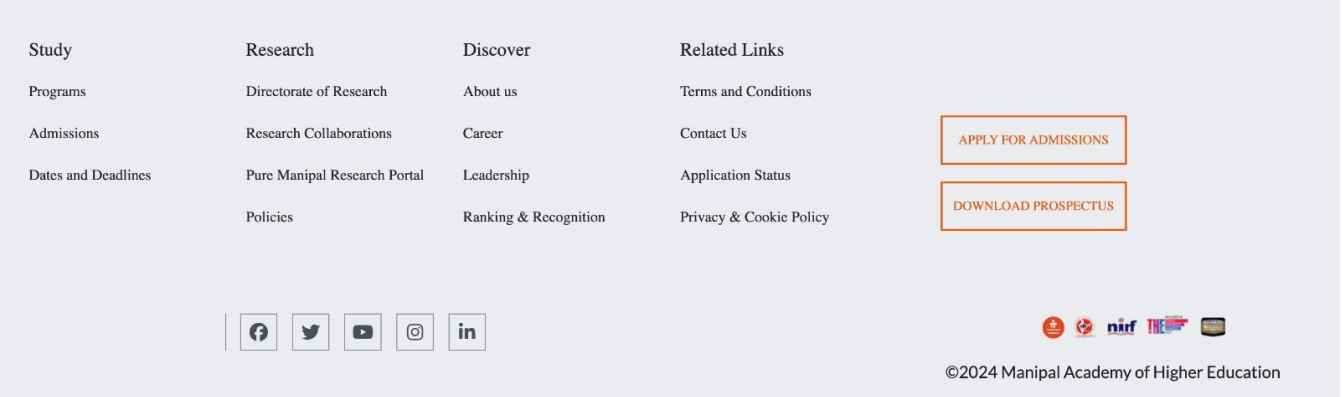

Figure 4: Footer

Figure 1 displays the index page for the scholarship portal. It shows all the scholarships available for Mahe colleges .Figure 2 shows the webpage design of a selected scholarship. Its shows the table wherein you can enter your details for which it will check eligibility. Figure 3 continues with the contents of the scholarship. Figure 4 is the footer for the website. Figure 5 displays the architecture of the webpages. Figure 6 shows the activity flow of the website.

4 Implementation Details:

The implementation of the MAHE scholarship portal leverages modern front-end technologies to provide a seamless user experience for prospective students navigating scholarship opportunities. Specifically, HTML is used to structure the web content, ensuring that each element on the portal is appropriately organized. CSS is employed to style the interface, facilitating a visually appealing and intuitive layout that enhances user engagement and accessibility. JavaScript plays a crucial role in adding dynamic functionalities, such as form validation, interactive elements, and content manipulation based on user actions.

The portal currently operates purely on client-side technologies, meaning all data is loaded from static files. This setup simplifies deployment and reduces server-side overhead but limits real-time data interaction and personalization. To address scalability and future data management needs, the design contemplates integrating a backend framework and a database system in later stages. The addition of these components will allow for dynamic updates, personalized user experiences, and better management of user inputs and scholarship data.

Implementation also includes rigorous testing across various devices and browsers to ensure compatibility and responsiveness. Future enhancements aim to incorporate additional interactive features, such as a live chatbot for real-time assistance and more sophisticated data filtering options to tailor scholarship searches more effectively.

Figure 3 represents the activity flow of the portal.

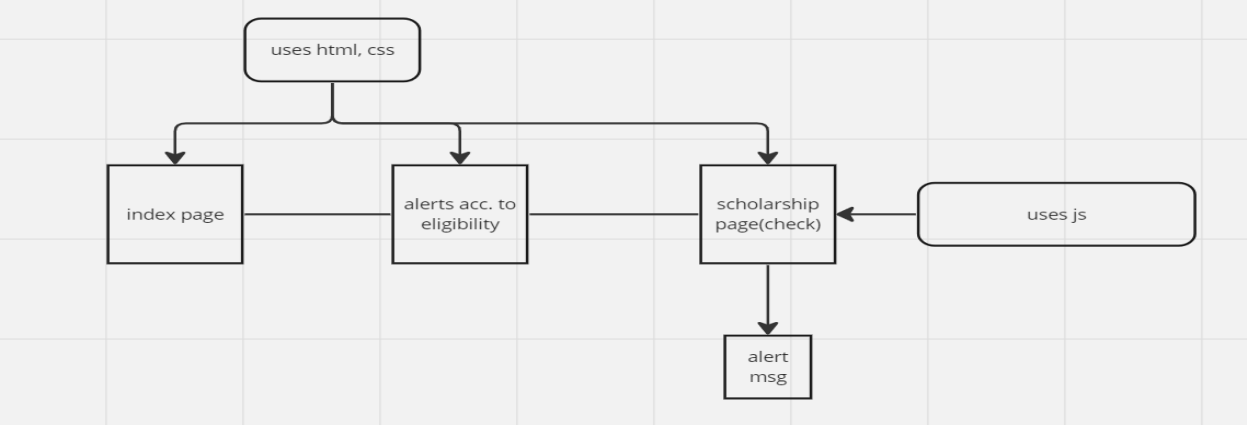

Figure 5: Architecture Diagram

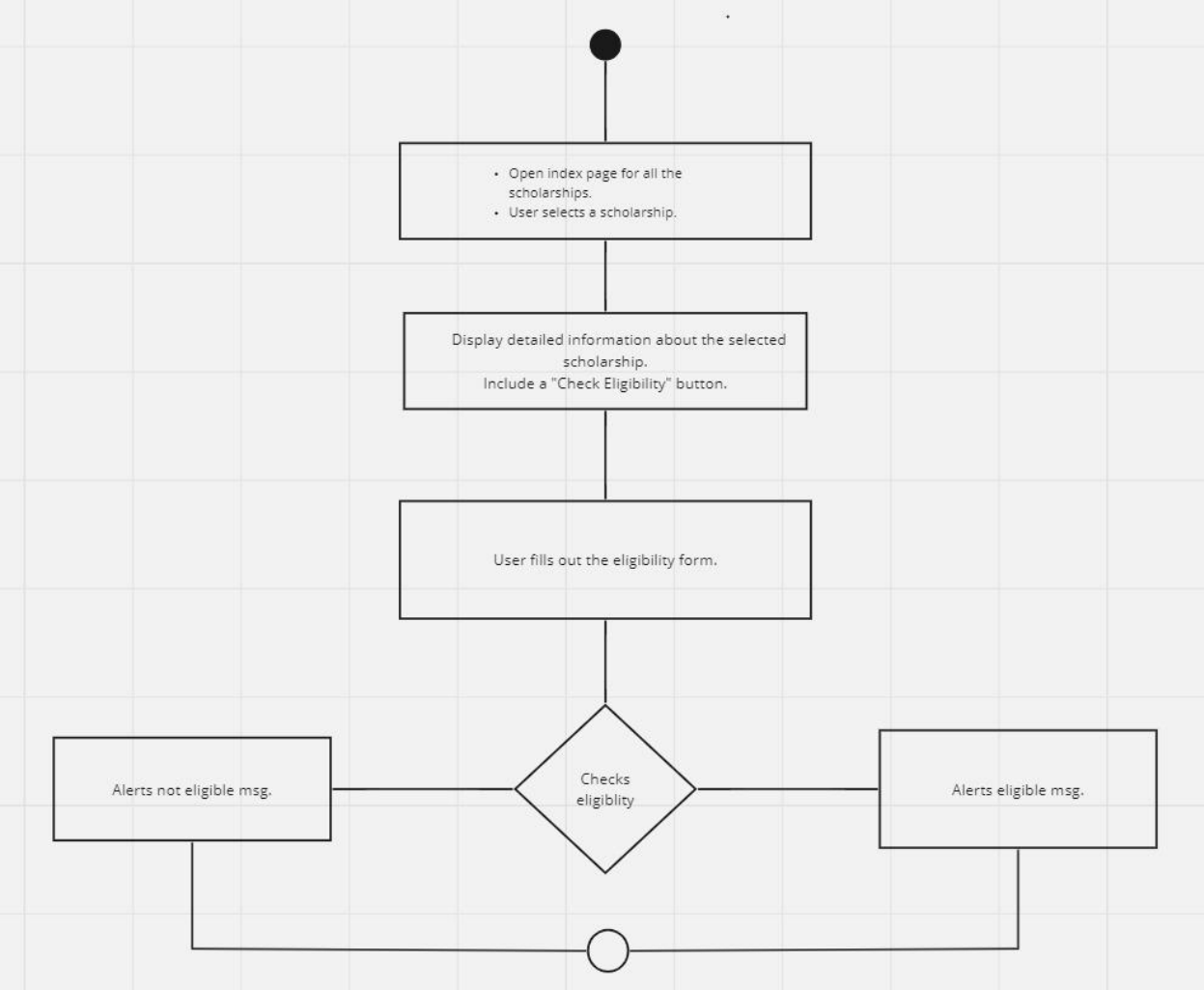

Figure 6: Activity Diagram

5 Testing and Validation:

- Cross-Browser and Cross-Device Testing: Test the portal on different browsers (Chrome, Firefox, Safari, Edge) and devices (desktops, tablets, smartphones) to verify compatibility and responsive design.
- Regression Testing: Regularly re-run previous tests to catch any new issues introduced after changes in the portal.
- Functional Testing: Manual testing or automated scripts can be employed to cover all user stories and use cases.

6 Performance Evaluation:

- Response Time: Measure the time it takes for the portal to load and for pages to respond to user interactions. Optimal response time should be under 2 seconds to ensure a smooth user experience.

- Throughput: Evaluate the number of users the portal can handle simultaneously without a drop in performance. This includes assessing the server's ability to handle multiple requests per second during peak times.

- Error Rate: Track the frequency of errors that users encounter while using the portal. This includes broken links, failed form submissions, and any downtime experienced.

7 Conclusion:

The development of the MAHE scholarship portal marks a significant advancement in streamlining the scholarship application process for students at Manipal Academy of Higher Education. By providing a centralized, easy-to-navigate platform, the portal effectively demystifies the complexities of finding and applying for scholarships. Initial feedback has been highly positive, affirming its usability and impact. As the portal evolves, further enhancements are planned to incorporate dynamic content and expand its capabilities, ensuring that it continues to meet the growing needs of its users and remains a vital resource in facilitating educational opportunities.

8 Future Scope:

Looking ahead, the future scope of the MAHE scholarship portal includes several enhancements to broaden its functionality and reach. Plans to integrate a backend database will enable real-time updates and personalized user experiences. Additionally, expanding the list of scholarships and incorporating advanced filtering options will further tailor the search process to individual needs. Mobile optimization will ensure accessibility on various devices, enhancing user engagement. Finally, introducing interactive elements like AI-driven chatbots could provide guided assistance, making the application process even more user-friendly and efficient for prospective students. These advancements will solidify the portal’s role as an essential tool for educational funding.

Team member contributions:

- Harshita Gupta: UI and Frontend
- Harsh Vardhan Mishra: UI and Frontend
- Aastha Sinha: UI and Frontend
- Charu Yadav: UI and Frontend

Appendices:

- Figure 1: Index.html - Shows the landing page
- Figure 2: Scholarship pages – show form for eligibility
- Figure 3: Scholarship pages- shows the content
- Figure 4: Footer of the webpage
- Figure 5: Architecture Diagram
- Figure 6: Activity diagram