

Student-Alumni Platform

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Abstract- The Student-Alumni Platform is an educational community designed to develop connections between students alumni of an esteemed institution. It involves the current students and passed out alumni of the institution. This platform is helpful to make the students network, seek mentorship and have access to development resources which help the student to grow and learn. The alumni can offer guidance,share job opportunities,and contribute to their institution and students.By using this platform, the gap between student and alumni is solved and provides a seamless and interactive interface. The necessary features that are included in the platform are creating user profile, login, student dashboard, alumni dashboard with sending connection requests and messages. The platform is built by using HTML,CSS and JavaScript.As the platform evolves, future enhancements will further enrich user engagement by using more enhanced features like advanced messaging and group chats, linkedin integration,mobile access,and more features to help make the application more dynamic and dependant to the users.It also helps in building life long relationships by promoting the connections between student and alumni.

Index Terms- Student, alumni, institution, education, connections.

I. INTRODUCTION

The Student-Alumni Platform is a digital solution designed to connect students and alumni of a college , to help facilitate communication,networking and networking.Developing a web application for this platform can help colleges build a thriving and collaborative community which is an advantage for both students and alumni. Through this platform, students can gain insights into career paths and join internships, access job opportunities and build mutual relationships with the community of alumni. It is also a way for alumni to contribute back to the university by helping students by guiding them and giving them advice. Creating a Student-Alumni Platform will enable easy matching between students and alumni depending on their areas of interest, building meaningful connections.Student-Alumni can discuss about organizing or attending webinars, meetings or meetups as well. This helps both communities engage with each other in the real world. Alumni can help share research papers, articles, online courses.They can even volunteer for college related events,such as guest lectures or career coaching By implementing the exchange of knowledge and opportunities ,the platform creates a network that benefits both the student and alumni. It can be through attending seminars or webinars, sharing industry expertise until collaborating on projects.It is a supporting community that motivates students to succeed being connected to their alumni. The motivation behind the creation and development of student alumni platform starts from the structured centralized system which helps to bridge the gap between the student and alumni. In many educational

institutions,students and alumni often face challenges in advanced.Despite the valuable knowledge and resources alumni have, the lack of efficient platform often prevents them from sharing insights, offering guidance or providing career opportunities to students.

II. PROBLEM STATEMENT

Students and alumni face alot of challenges in connecting, there is a limiting opportunities for mentorship, networking and career development. There is no proper platform for sharing advice, job opportunities or offering guidance to students. In the same way students also struggle to access structured resources for job opportunities within their network.”The Proposed System involves Latest UI/UX Design To Develop a user-friendly interface with easy navigation.That provides accessibility features for Student and alumni.Provide a clear call-to-action.

Updated Networking Tools

Intelligent Computation and Analytics on Sustainable Energy and Environment 457 To implement an AI-driven matchmaking for connecting student and alumni with similar interests or goals. To integrate advanced search and filtering options for finding alumni based on profession or expertise.

Career and Mentorship Features

To provide mentorship programs where alumni can provide guidance to students or junior alumni, offer job boards, skill-based training resources and internship opportunities.

Cost Efficiency

To use an open-source frameworks or subscription-based SAAS tools to reduce the cost. By integrating modular designs to add or update features without complete overhauls.

III. LITERATURE SURVEY

Literature Survey, often referred to as a literature review, serves as a critical component in academic research, providing a comprehensive overview of existing scholarly work on a particular topic. It examines, and synthesizes previous research findings, theories, and methodologies, thereby establishing a foundation for new enquiries. The use of a literature survey is to identify gaps in the current body of knowledge, highlight significant trends. It not only clarifies the relevance and importance of the research topic but also demonstrates the familiarity with the field. A literature survey typically begins with an introduction that outlines the scope of the review, key terms and presents the main themes or arguments that will be explored. It may address historical developments, methodological debates and conflicting findings within the literature, thereby providing a understanding of the topic. It is an analytic framework that informs and justifies the need for further research, paving the way for new insights and advancements in the field.

Alisa Laatu et. al, “Alumni Activity Development”, HAMK 2020 [1].

This paper examines how different schools have organized their alumni activity. The research was conducted in cooperation with HAMK, which educates professionals in various fields at both the bachelor’s and master’s degree levels and it also engages in research and development work. This method involved surveys that was sent to selected schools in Finland and abroad, as well as a questionnaire for HAMK’s Bachelor of Business Administration alumni. Mohit Arora et. al, “Student-Alumni Network WebApp”, IJARIT2022 [2].

This paper presents a student-alumni network web application called “ST-AN” that aims to create a strong and interactive bond between the current students and alumni of the institution. The existing alumni systems are often error-prone and lack features for effective communication and collaboration, so the proposed system allows students and alumni to create profiles, share experiences, post content and interact with each other. This uses modern technologies like React.js, firebase and redux to provide an engaging and visually appealing user experience with key features including user authentication, profile management, content sharing. The aim is to facilitate better communication, mentorship and overall development of the institution through this integrated alumni-student platform.

Nihal Ahmed Barudwale et. al, “Alumni Connect Forum”, IRJMETS 2023 [3].

This paper aims to improve communication and engagement between alumni and current students of an educational institution. The system uses a method to gather information about a larger number of alumni compared to conventional methods, by leveraging data from a few initial alumni pages. It has a separate user interface for alumni, students and administrators, each with tailored functionality. Alumni can view profiles, add resources and engage in discussions. Student can also access alumni profiles, resources and participate in discussions. It provides a centralized platform for alumni to share industry knowledge, job opportunities and offer mentorship.

Professor Angha Kadve et. al, “Alumni Portal”, IJARST 2023 [4].

This Paper refers to an online platform designed to connect and engage alumni of an educational institution or organization. It serves as a central hub for alumni to stay connected with their alma mater, fellow alumni and access various resources and opportunities. The portal offers a range of features and modules to enhance alumni networking, professional development, and involvement in the alumni community. It fosters a sense of community, engagement and lifelong connection among alumni. It also enables alumni to network, explore professional opportunities and stay connected with their educational institution.

Lingchen Lynette Dang et. al, “Alumni Information Collection and Management” University of Chicago 2023 [5].

This paper presents an innovative approach to automating the collection and management of alumni information for the Social Science Division at The University of Chicago. It addresses the inefficiencies of traditional manual data collection methods by utilizing computational techniques such as web scraping, text cleaning and natural language processing. It focuses on verifying and analyzing the career trajectories of SSD alumni, revealing insights into their post-graduate education and employment outcomes. The findings contribute to the literature on alumni networks by providing novel methodologies for data collection and analysis, ultimately enhancing the alumni engagement and support for career services.

P. Murugan et. al, “Student Alumni Connecting Website” IJNRD 2024 [6].

This paper presents a student-alumni connecting website developed using PHP technology. The website aims to bridge the gap between current students and alumni, fostering mentorship, career development and knowledge exchange within the academic community. The platform offers features such as user registration and profiles, messaging and communication tools, a job board and an admin dashboard for

managing the website. The study emphasizes the importance of student-alumni interactions in academic and career success, highlighting the benefits of mentorship programs and online networking communities. The proposed system leverages analytics to track user engagement, mentorship outcomes and platform performance, while collecting user feedback to improve the website's offerings. It provides a virtual space for students to connect with experienced alumni, enabling mentorship, career guidance and knowledge sharing. Prof.Kunal R.Ahire et. al, "Alumni Tracking and Interaction Platform" IRJMETS2024 [7].

This paper presents an alumni tracking and interaction platform that aims to facilitate seamless communication and collaboration between educational institutions and their alumni. The platform provides a centralized database and real-time updates, enabling stakeholders to access accurate and up-to-date information, that leads to improved decision-making and operational efficiency. The system caters to various user classes, including administrators, alumni, current students, faculty and event organizers, each with distinct roles and responsibilities. It includes user registration, profile management, fund-

raising, feedback, training, alumni gallery, regional user groups, search functionality and job postings.

Shailaj Kumar Shrivastava et. al, "Emerging Software and Tools in Higher Education Institutions" IJSCE 2024 [8].

This paper discusses the impact of the digital revolution on higher education, highlighting the development and implementation of various software and tools that enhance educational processes. It emphasizes the importance of selecting appropriate software for automation, data management, collaboration and other educational needs while addressing potential risks such as data security and system compatibility. The authors explore a wide range of software categories, including project management, learning management and more.

Peter Ochieng Omondiet al, "Unified Alumni and Students Engagement System" ResearchGate 2024 [9].

This paper aims at bridging the gap between current students, academic staff and alumni within the Computer Science Department at Egerton University. The proposed system seeks to enhance communication, collaboration and professional networking by providing a centralized platform for mentorship, job placement. It includes improving student engagement, facilitating internship opportunities and promoting departmental events. The paper says about the project's background, objectives, methodology and expected outcomes, emphasizing the importance of fostering a connected community that supports the academic and professional development of students and alumni

Drawbacks of Existing System

- Poor User experience and User Interface since the platforms may have outdated designs, difficult navigation or compatibility issues with modern devices.
- There is a limited tools for alumni to find and connect with people based on the shared interests, industries.
- The platforms may have older versions, incomplete or inaccurate alumni data, that causes communication gap between students and alumni.
- No proper tools for mentorship, job postings or sharing professional development resources.

Intelligent Computation and Analytics on Sustainable Energy and Environment 459

IV. REQUIREMENT ENGINEERING

Requirements Engineering plays a crucial role in the creation and development of the Student-Alumni platform. This web application contains all the features, such as profile creation, login page, a student and alumni dashboard, messaging and connections that can be accepted or rejected for better communication. Additional, requirements can be reused across various parts of the platform ensuring continuity and efficiency.

As requirements for the platform are often complex, having requirement engineering helps to ensure high quality delivery by ensuring clear communication across different stages of development of the web application. By adopting a structured approach to capturing, tracking and managing requirements, it helps in the overall success and quality of the student alumni platform.

Hardware and Software Tools Used Hardware Tools

- Device HP
 - Processor Intel(R) Core(TM) 5 120U 1.40 GHz
 - Installed RAM 16.0 GB
 - System type 64-bit operating system, x64-based processor
- Software tools

Windows or Linux Operating System. Programming Language: JavaScript, HTML, CSS.

JavaScript is a versatile, high level programming language primarily used for building dynamic and interactive websites. It is a core technology of web development and works along with HTML and CSS as well. JavaScript enables the developer to create responsive user interfaces and manage the client side logic. In JavaScript handles implementation of complex features such as interactive forms, real time updates and animations, and is supported across all modern web browsers. JavaScript can handle both front end and back end development.

Advantages of JavaScript are

- Easy to Learn and Use JavaScript is widely considered to be one of the easiest programming languages to learn. It has a very straightforward syntax which helps beginners to quickly start writing code and making it an ideal choice for those to choose programming. Javascript can be used in both front end and back end as well which makes it very versatile and easy to use.
- Versatility and Flexibility JavaScript can be used for client side and server side development as well. This allows developers to build web interfaces and manage server side logic. This flexibility makes it possible to even build full stack applications by using only JavaScript.
- Fast Execution JavaScript can directly be executed in the browser, as it is a lightweight language. It doesn't require any external compiler and because of this development process is much faster and so is the execution.
- Asynchronous Programming JavaScript offers asynchronous benefits as well, including callbacks, promises and async/await. This allows the developers to build fast applications that can handle multiple tasks simultaneously.
- Cross-Platform JavaScript can run on any device and it can be installed in different platform like windows or linux or ubuntu.

Features of JavaScript and Visual Studio Code are:

- Brilliant Code Editing VS code has inbuilt syntax highlighting, auto completion and even makes it easier to write JavaScript code quickly with few errors.
- Extensions VS code supports a vast library of extensions and allows developers to customise their environment according to their project needs. Many extensions can be downloaded to help developer build their application.
- Performance Vs. Speed Virtual Studio Code is a lightweight and quick interface which doesn't compromise in the area of performance. It has JavaScript which helps in fast execution of code, thereby making it good in performance and speed as well.

Conceptual Modeling and Analysis Modeling

Conceptual and Analysis modeling is critical for defining the structure and relationships between system admin and the components. Conceptual Modeling represents the system at high level by focusing on the major entities and their interactions or relationships. In the Student Alumni Platform, the conceptual model outlines the creation of student, alumni profile, respective dashboards and connection requests along with messaging. Whereas analysis modeling consists of the system behavior, processes and interactions. It provides the detailed insights into the functions of the platform including profile creation, login to the student or alumni dashboard,

messaging system, maintaining the dashboard and enabling connection requests. It can be modeled using use case diagrams, activity diagrams and sequence diagrams to detail the system operations and user interactions.

Use Case Diagram

A Use Case Diagram in Unified Modeling Language (UML) shows the visual representation of relationships between the actors and system admin. Actors are the external users involved in the system. It helps to identify the types of users and key actions they can perform.

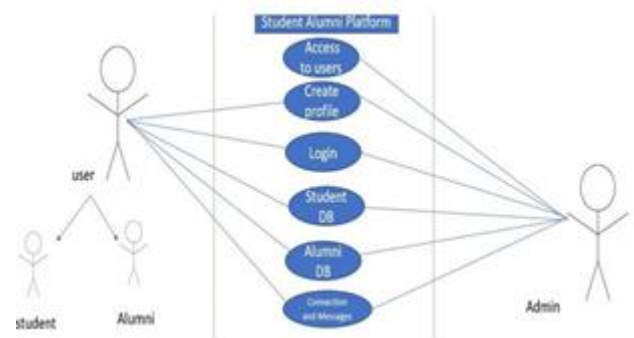


Fig: Use case diagram Sequence Diagram

The sequence diagram is used to show the order of interactions between components over time and illustrates how the tasks are exchanged to complete specific tasks. It is usually done along with use case diagrams and describes how the tasks are done within the project. The sequence diagram for the student-alumni platform events is: 1. The user can either be a student or an alumnus of the institution and the user will register. 2. Once the user registers, the user's profile is saved in the local storage for further login. 3. Once the user logs in, the respective dashboard will be displayed, depending on whether the user is student or alumni. 4. The Student user can send messages and connection requests to the alumni user. 5. The Alumni user can choose to reject or accept the connections and send messages to the Student users. Messages and requests are stored in the local storage.

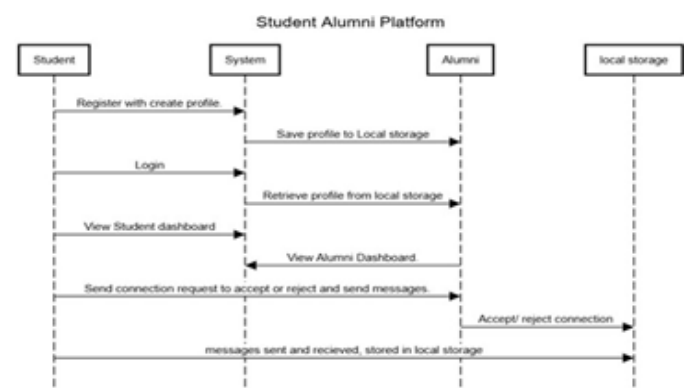


Fig: Sequence diagram

Software Requirement Specification [SRS]

A software requirements specification is a document that captures complete description of the system's overall performance. This consists of the functional and nonfunctional requirements.

Functional Requirements

- The system should allow users, either student or alumni to sign up and create profile.
- The system should enable the student and alumni to view their respective dashboards.
- The system should also support connection requests between the users(student and alumni), where the alumni can either accept or reject the connections.
- The system should allow messaging between students and alumni.
- The data created by the users joined, profiles, connection requests and messages should be stored in the local storage.

Non- Functional Requirements

- Usability: The system should be easy to use , ensuring that the users can interact with the platform efficiently.
- Reliability: The system should provide accurate functionality which can be dependable as well.It should
- Intelligent Computation and Analytics on Sustainable Energy and Environment 461ensure that all the connection requests are handled so that users can trust the platform for their interactions.
- **Performance:** The system should be able to quickly process actions such as profile creation, connection requests and messaging.

V. PROJECT PLANNING

Project planning for a student-alumni platform involves a systematic process of defining the objectives, scope and activities necessary to create and maintain a robust system that fosters engagement between the current students and alumni. This also includes identifying key stakeholders, such as alumni , current students, faculty and administration and understanding their needs and expectations.The planning phase encompasses the development of a strategic roadmap that outlines the platform's features.

System Design

System design refers to the process of defining the architecture, components, modules, interfaces and data for a system to satisfy the requirements that is specified. It also involves high-level planning and structuring of software or hardware systems, ensuring scalability, reliability and efficiency.The System design focuses on designing databases, API's backend services and user interfaces while considering

factors. It balances technical feasibility, user needs and future growth, ensuring the system is maintainable and adaptable.

System Architecture

System architecture is the conceptual blueprint that defines the structure, behavior and interactions of a system's components. It tells how different modules, subsystems and technologies integrate to meet functional and non-functional requirements.The system architecture provides a clear roadmap for development, ensuring the system is robust, efficient and is able to adapt to future needs.The figure shows an architecture description and representation of a system.

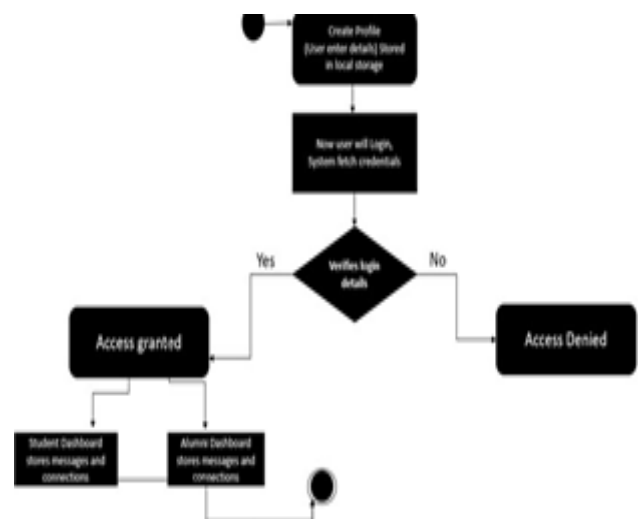


Fig: System architecture flowchart

The diagram depicts a simple user authentication and access control workflow for a system. It starts with a creation of a user profile, where the user enters their details, which are stored in local storage. The user logs in and the system fetches the stored credentials to verify their login details.If the login details is correct, access is granted, and the user is taken to the respected student or alumni dashboard, depending on their role. Both dashboards store messages and connections specific to the user. If the credentials are incorrect, access is denied, and the user cannot proceed further.

Interface Design

Interface design refers to the process of creating the visual and interactive elements of a software or digital product that users engage with. It focuses on optimizing the usability and aesthetics to ensure that users can easily navigate and accomplish their goals.It involves clear, intuitive layouts, visually appealing graphics and responsive elements that guides the users seamlessly through their tasks. A good interface design enhances user experience by making interactions efficient.

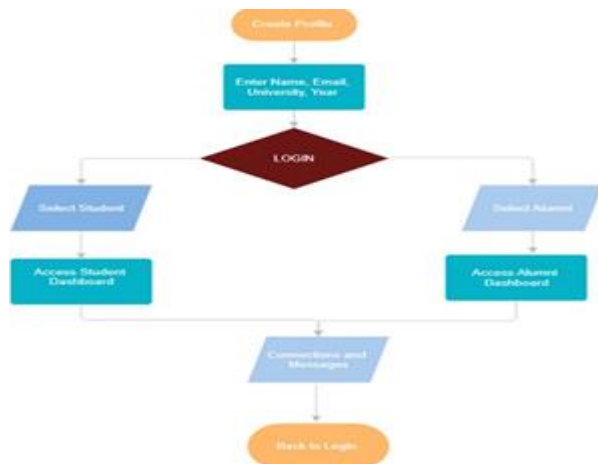


Fig : Interface diagram

The data structure design for a student alumni platform needs to be robust and efficient, as it handles various user data types and relationships. It should include tables or collections for users, with attributes such as personal details, academic history and career information. Relationships between entities are crucial, with associations like alumni-student, alumni-network groups, event participations and communication logs.

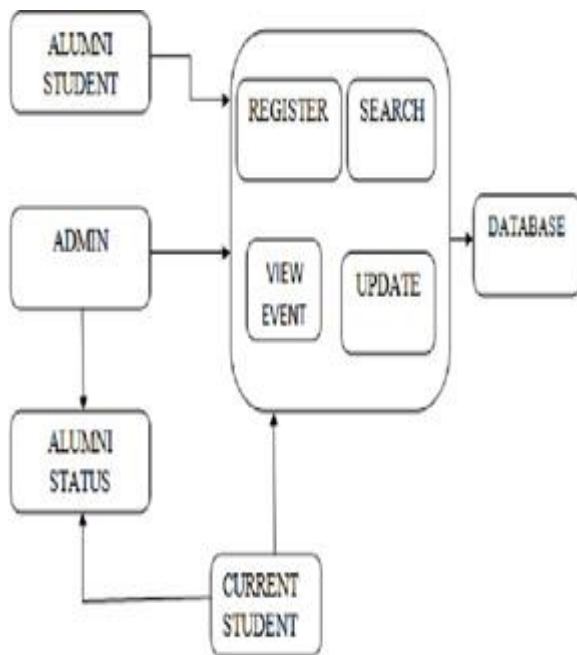


Fig: data structure diagram

The above image depicts a system flow diagram for an alumni database. The diagram shows the different user roles, actions and database interactions within the system.

Algorithmic Design

Algorithmic design is the process of developing a step- by-step method for solving a specific problem or performing task in a computationally efficient manner. It basically involves breaking down a complex problems into smaller, manageable subproblems, selecting appropriate data structures. The main goal is to create algorithms that are not only correct but also optimized in terms of time and space complexity.

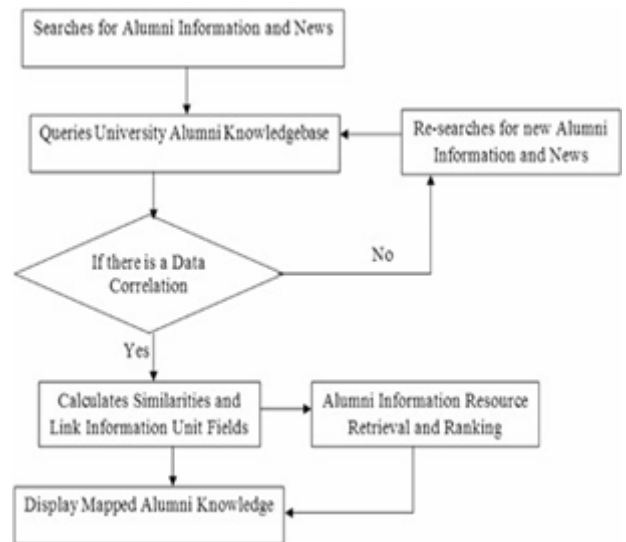


Fig: Flowchart

VI. IMPLEMENTATION

The implementation of student alumni platform involves developing and deploying a system that allows students and alumni to create profiles , connection requests and and communicate through messages. The following are the technologies used:

- JavaScript
- HTML
- CSS

JavaScript

JavaScript is a primary language implementing the core functionality of the student alumni platform. It allows dynamic interaction between the user interface and the local storage. It handles tasks like profile creation, connection requests and messaging. JavaScript enables real time updates for actions like sending and receiving messages, accepting and rejecting connection requests and for updating profiles. It also handles the storage of

Intelligent Computation and Analytics on Sustainable Energy and Environment 463 data in the browser's local storage ensuring fast and efficient data retrieval.

HTML

HTML is used to structure the content and layout of the platform. It defines the structure of the student and alumni

dashboards, login pages, profile sections, managing the logo and the design of the page as well and connection management interface. HTML forms are used to capture user input which is the profile details while registering and logging in, and connection requests. CSS is used to style and enhance the visual presentation of the platform making the user interface clean, responsive and easy to navigate. Having a responsive design makes the platform look great on different screen sizes. It also helps in creating an appealing design, improving user experience and also enhances the page by using color schemes, handling the layout and size of the images. It also helps in setting up the logo and banner in the homepage. The following are the features of the platform. The student alumni platform offers the following features:

- Create profile(Registration): Users including student or alumni can register and create profile and store their details like name, university, email, etc in the local storage.
- Student and Alumni Dashboard: Students and alumni can access their dashboard which helps them send requests and messages to the alumni. Alumni can access their dashboard by accepting or rejecting the incoming connection requests and responding to the messages.
- Connection management and messaging: This platform allows students to send connection requests, and it is either accepted or rejected by the alumni. All the messages sent and received are stored as well and the user can clear the chat if necessary.

In the Student Alumni Platform, data management is crucial for handling user interaction effectively. This module ensures user profiles, connection requests and messages are processed and displayed correctly.

Step 1: Data collection The user data, including personal details and profiles is initially stored in the browser's local storage in JSON format. The data can be retrieved for processing.

```
this.users=JSON.parse(localStorage.getItem("users"));
this.currentUser=null;
```

Step 2: Converting Data into a structured format After retrieving data, it is processed and stored as an array of

objects allowing it to be easily manipulated for rendering on the user interface.

Step 3: Data Normalization For consistency and uniformity, we normalise certain fields such as names to ensure correct and constant formatting across the platform. Feature processing in Student Alumni Platform This module handles the user specific functionalities such as:

- Registration and Login New students or alumni fill out their details which are name, email, username, password, current university, graduation year which are all stored in the local storage
- Connection Requests Students send connection requests to alumni which can be accepted or rejected depending on

the alumni. It gets updated in the local storage and is displayed whether accepted or rejected.

- Messages In the dashboard, on selecting messages button, the user is navigated to the messages page where the user must type the email of the recipient and the required message, and they can communicate with another user.

VII. CODE SNIPPETS

Code Snippets are the documentation of parts of the code used in developing the student-alumni platform. The following images consist of the code snippets from the student alumni platform including app.js file, html and css file.

```
class UserManager {
  constructor() {
    this.users = JSON.parse(localStorage.getItem('users')) || [];
    this.currentUser = null;
  }

  // Register a new user
  register(userData) {
    if (this.users.some(user => user.email === userData.email)) {
      throw new Error('Email already registered');
    }

    userData.id = Date.now();
    userData.connections = [];
    userData.posts = [];
    userData.messages = []; // Initialize message array
    this.users.push(userData);
    this.saveUsers();
    return userData;
  }

  // Login an existing user
  login(email, password, userType) {
    const user = this.users.find(u => u.email === email && u.password === password && u.userType === userType);
    if (user) {
      this.currentUser = user;
      return user;
    }
    throw new Error('Invalid credentials');
  }

  // Save users to local storage
  saveUsers() {
    localStorage.setItem('users', JSON.stringify(this.users));
  }
}
```

Fig : Snapshot of app.js

```
class DashboardRenderer {
  renderStudentDashboard(user) {
    document.body.innerHTML = `
      <div class="top-container">
        <div class="sub-heading">Kannurvar Singham (K) 1992, K.S. Group of Institutions</div>
        <div class="header">
          
          <div class="text-container">
            <div class="main-heading">KSI Institute of Technology</div>
            <div class="address">
              No.14, Rajmangalhalli, Kanakapura Road, Bangalore - 560075, 9988710803<br>
              Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NBA
            </div>
          </div>
        </div>
        <div class="container student-dashboard">
          <div>
            <div class="dashboard-section">
              <div class="dashboard-header">
                <div>Student Dashboard</div>
                <div>Welcome, ${user.name}</div>
              </div>
              <div class="dashboard-content">
                <div class="connections">
                  <div>Find Connections</div>
                  <div>Find Connections</div>
                </div>
              </div>
            </div>
          </div>
        </div>
      `;
  }
}
```

Fig: Snapshot of app.js

```

<html lang="en">
<html>
<div class="top-container">
</div>
<div class="auth-container">
<div class="login-section">
<div login-form>
<input type="email" id="login-email" placeholder="Email" required>
<input type="password" id="login-password" placeholder="Password" required>
<select id="login-user-type">
<option value="student">Student</option>
<option value="alumni">Alumni</option>
</select>
<button type="submit">Login</button>
</div>
</div>
<div class="signup-section">
<div create-profile-form>
<div id="signup-form">
<input type="text" id="name" placeholder="Full Name" required>
<input type="email" id="signup-email" placeholder="Email" required>
<input type="password" id="signup-password" placeholder="Password" required>
<select id="signup-user-type">
<option value="student">Student</option>
<option value="alumni">Alumni</option>
</select>
<div id="student-fields" class="additional-fields">
<input type="text" id="university" placeholder="Current University">
<input type="text" id="major" placeholder="Major">
<input type="text" id="graduation-year" placeholder="Expected Graduation Year">
</div>
</div>
</div>
</div>

```

Fig: snapshot of html code

VIII. RESULTS

The user documentation is useful for guiding the end users to efficiently use the student alumni platform. This platform connects the current students of an institution to alumni of the same institution. It enables them to send connection requests, communicate through the messages option, share professional advice and more.

Create Profile and Login Page The user should first create their profile and basically sign up by entering their information such as name, email, password. Next after the registration is successful, the user must login to the page.

Intelligent Computation and Analytics on Sustainable Energy and Environment 465



Fig : Signup and Login page

Student Dashboard

When the user is a student, the student dashboard is displayed with the features as shown in the figure.

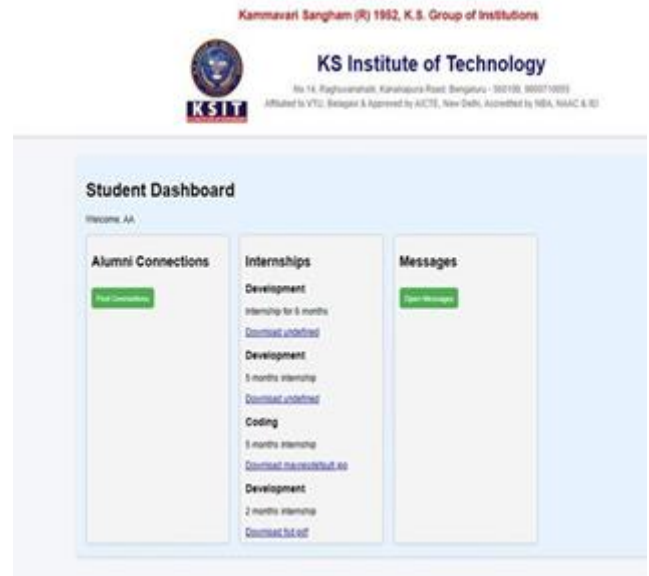
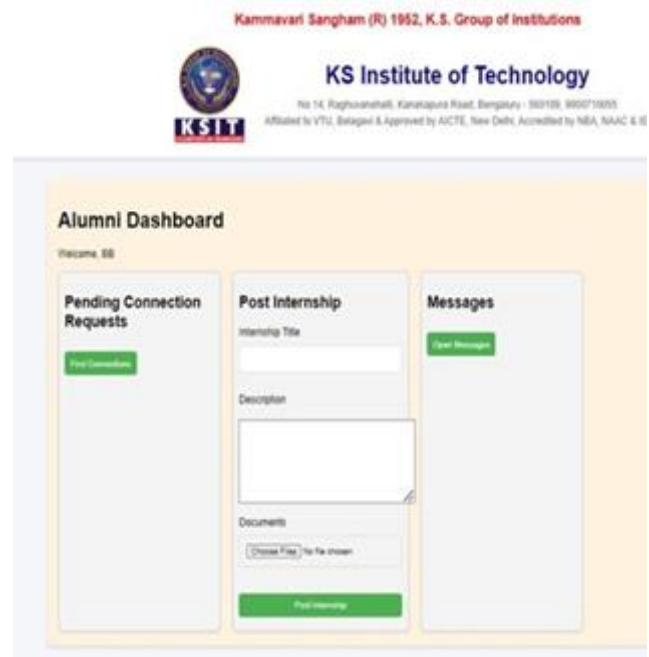


Fig: Student dashboard

Alumni Dashboard

When the user is an alumni and logs in to the Student Alumni Platform, the Alumni Dashboard is displayed with the features as shown in the figure.



Connection Requests.

This shows the connection requests sent from student dashboard to alumni. The alumni user can either accept or reject the connection.

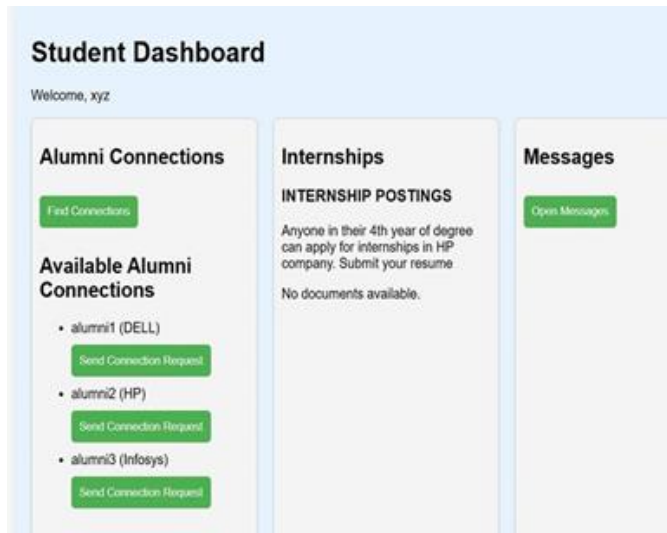


Fig: Display of connection requests in student dashboard

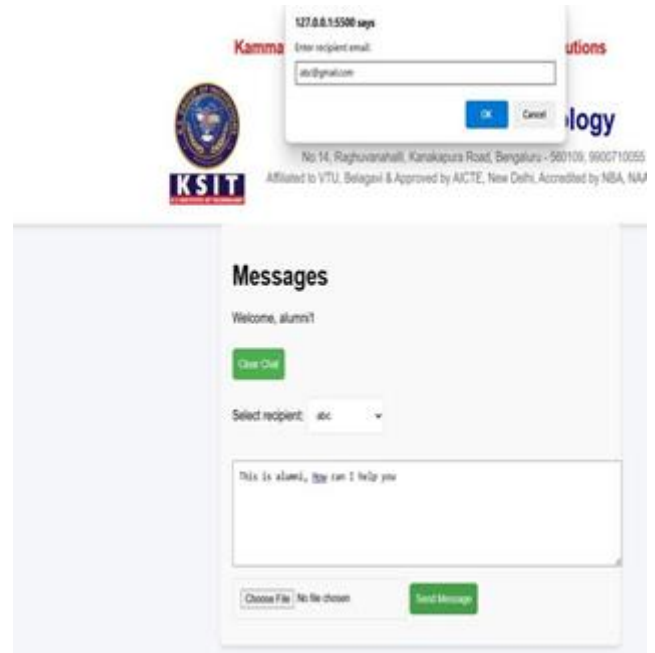


Fig: Message from alumni to student

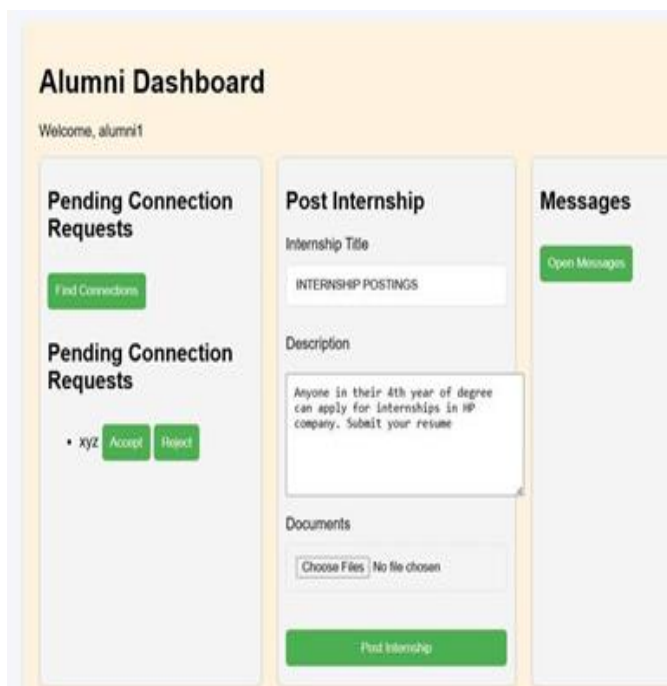


Fig: Connection request in the alumni dashboard.

Messages

This page is used to handle the message requests and communication from one user to another user.

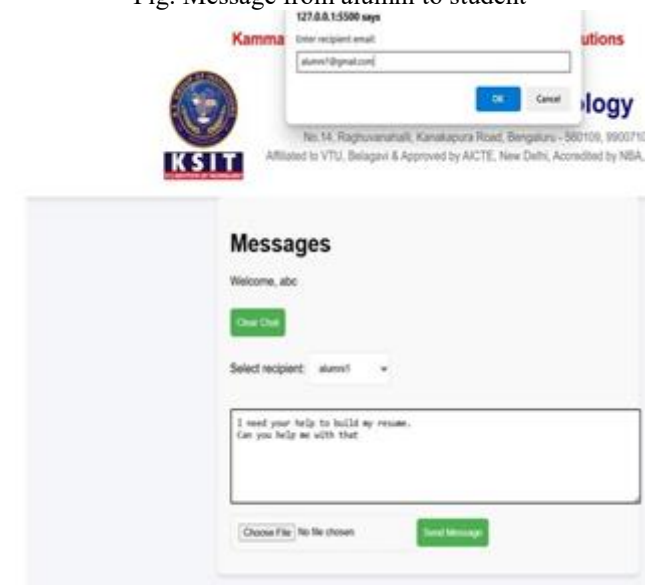


Fig : Message from student to alumni



Fig: Message exchange of student and alumni

IX. CONCLUSION

The student alumni platform serves as an essential tool for fostering the connections between the current students and the alumni of the particular institution. It provides a seamless interface for both the user groups, the platform creates a lot of opportunities for career development and community engagement. In this website the login and sign-up processes are very simple, secure and intuitive. As both students and alumni can easily register using their credentials. The platform successfully integrates these core features to create an engaging, functional and supportive online environment. Lastly, the platform offers a robust solution for fostering lifelong relationships and community engagement.

Future Work

By incorporating features like logo design, file attachments, real-time messaging, advanced search for opportunities and mobile access, integration with LinkedIn and more complex features, the platform can become even more powerful, user-friendly, Intelligent Computation and Analytics on Sustainable Energy and Environment 467 interactive and unique. As the student alumni platform evolves, there are several exciting opportunities for enhancement that will improve both student and alumni experience and functionality.

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