

STGI HACKATHON

Team Name - Bug Blasters



MEET OUR TEAM

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PROBLEM STATEMENT

“Document (docx) Generation”

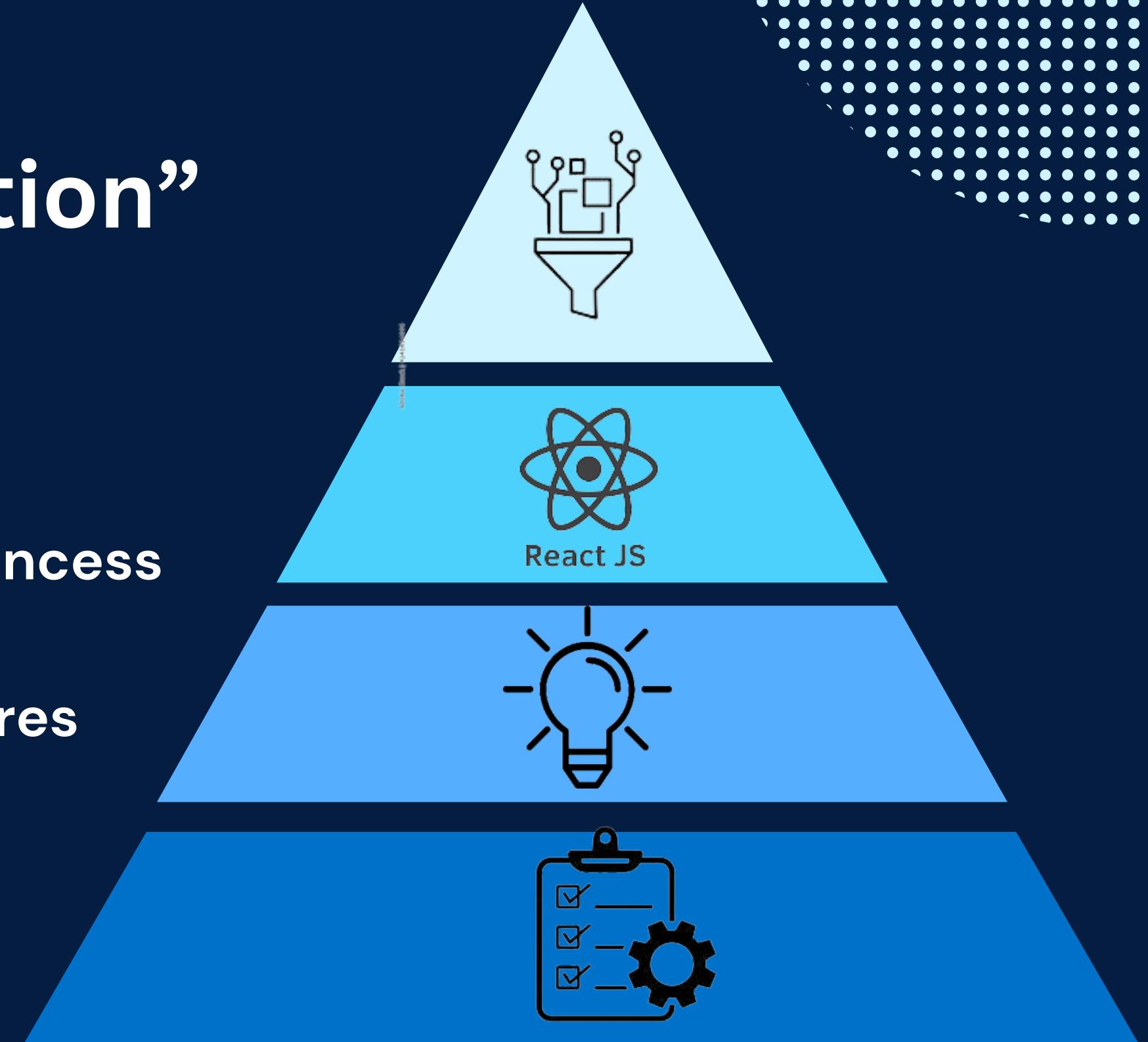
01 Preserving Formatting and Styles

02 Dealing with Hyperlinks and References

03 Supporting Complex HTML Structures

04 Minimizing Data Loss

05 Scalability and Performance





GOALS AND OBJECTIVES

Right Product

Selecting the Appropriate Product for the Task

Experience & Performance

A positive user experience is often contingent on the performance of a product.

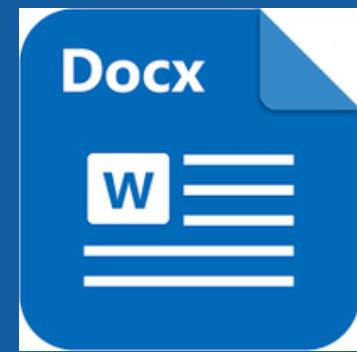
CODING FOR NON TECH?



USER EXPERIENCE



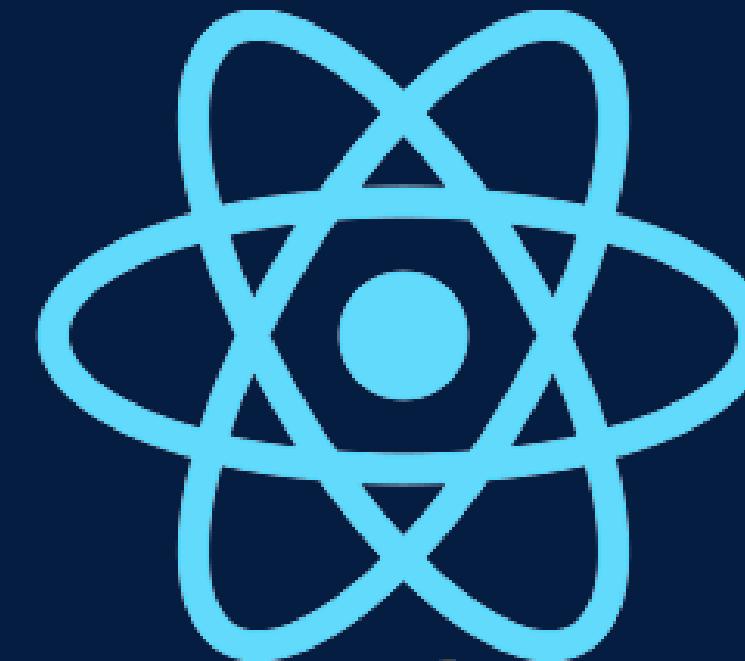
It is difficult to understand and not easily editable, hence reducing readability.



It is easy to understand and easily editable,hence increasing readability

TECH STACK USED

HTML



CSS



WORKFLOW

Analysed the extracted HTML content to understand its structure

Define styles and formatting for the documents such as fonts, colour and spacing

Extraction

Used libraries or tools to gather data from HTML file

Parsing

Building new DOCX file by adding sections, headers and necessary components to DOCX file.

Creating

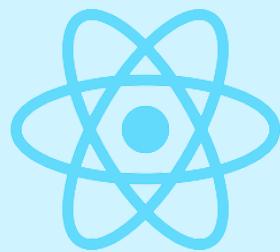
Styles & Format

Handling

Handle special cases like tables, lists, hyperlinks by converting HTML elements into their DOCX equivalent.

FRONT-END WIZARD

Designing and implementing the user interface (UI) and user experience (UX) of the website work on the client side of web development, focusing on what users see and interact with directly in their web browsers.



React

popular JavaScript library for building user interfaces, primarily used for User Interface for HTML Input and Conversion Logic.



Material UI

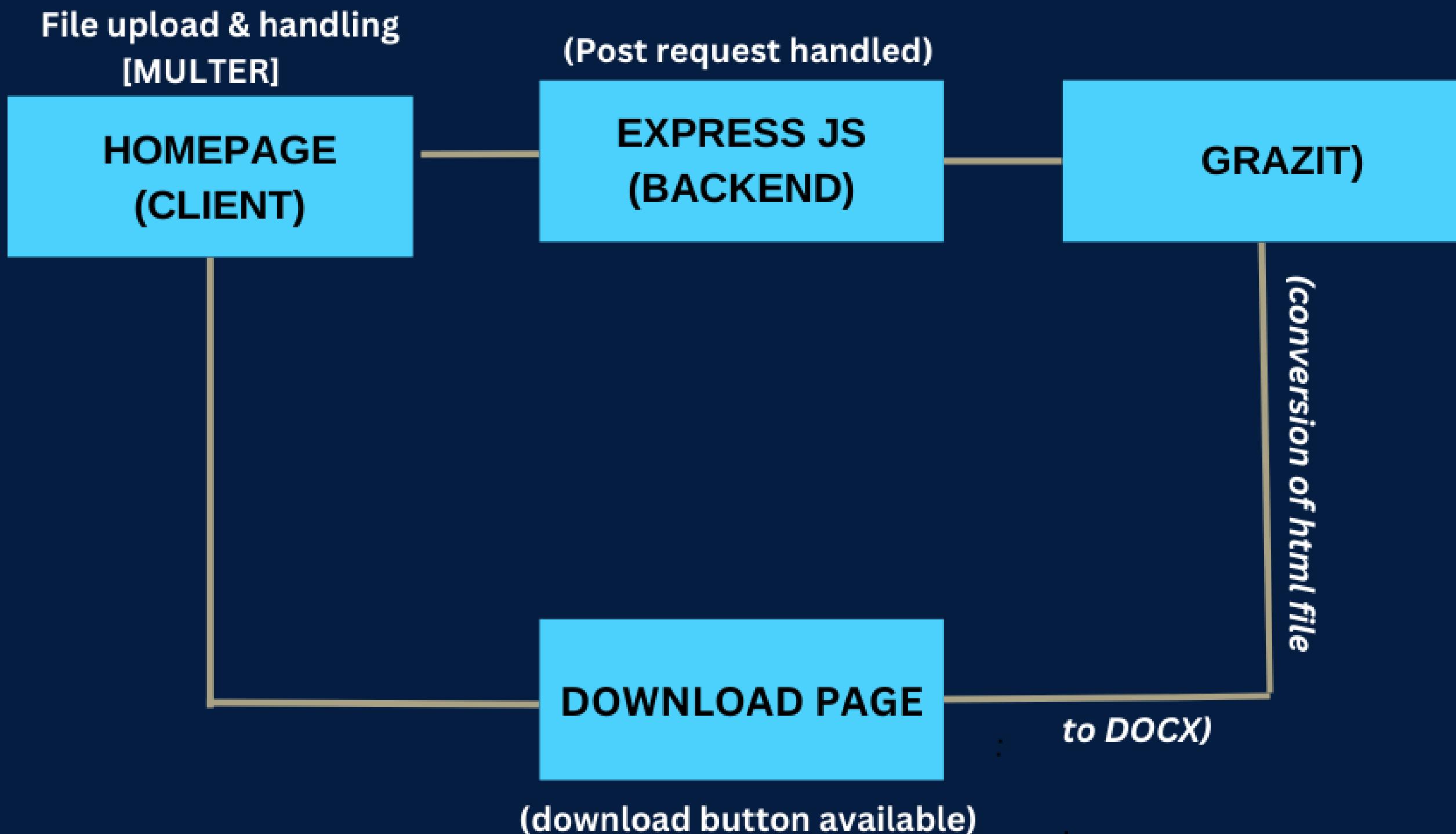
open-source library for building user interfaces in React applications, it implements the Material Design guidelines, which provide a visually appealing design language for web applications.



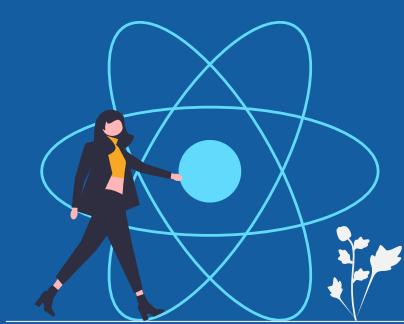
CSS

a fundamental technology used to control the visual presentation and layout of web pages. Styling Elements, Layout Control and Responsive Design.

Back-End Wizard



LIBRARIES USED

- **React -** 

React is an open-source JavaScript library for building user interfaces. It is maintained by Facebook and a community of developers. React is commonly used for creating single-page applications and mobile applications
- **Multer -** 

Multer is a middleware for handling file uploads in Node.js applications. It is particularly useful when building web applications that require users to upload files, such as images, documents, or any other file type of body text

- Express JS-



Express.js, often simply referred to as Express, is a minimal and flexible Node.js web application framework. It is designed for building web and API applications, making it one of the most popular and widely used frameworks in the Node.js ecosystem

- Material ui -



Material-UI is a popular open-source user interface framework for building web applications with React. It is based on Google's Material Design guidelines, which provide a set of principles for creating visually appealing and consistent user interfaces.

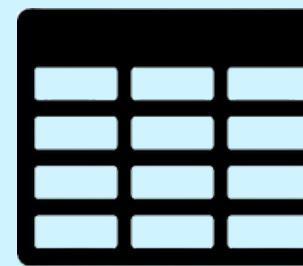
DATA LOSS

Minimizing data loss when converting HTML to DOCX is crucial to ensure that the resulting document accurately represents the original HTML content



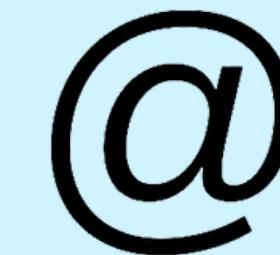
Styling Loss

To ensure that the resulting document maintains the intended formatting and appearance of the original HTML content.



Hyperlinks & Structures

For ensuring the accuracy and functionality of the resulting document through absolute URLs, nested elements, tables and lists.



special characters

Special characters include symbols, diacritics, mathematical symbols, and other non-standard characters .

THANK YOU

Team - Bug Blasters