

Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal – 574115

Hackoathsava 2023 – Synopsis

Team Name:		Tech Titans				
College Name and Address:		N.M.A.M Institute of Technology, Nitte, Karkala, 574110				
Theme of submission: (check mark the relevant box)		Transformative Education <input checked="" type="checkbox"/>		Sustainable Industrialization <input type="checkbox"/>		
Team Members:		Name	USN	Sem	Mobile no.	email - ID
1	Leader	Shishir Shetty	4NM21CS153	3 rd	9483243509	shishirshetty217@gmail.com
2	Member 1	Shashank B N	4NM21CS150	3 rd	8050122159	bnshashankr1597@gmail.com
3	Member 2	Satwik R Prabhu	4NM21CS143	3 rd	9686356123	satwikprabhu@gmail.com
4	Member 3	Shreyas S Saunshi	4NM21EC140	3 rd	7975137465	shreyasssaunshi@gmail.com
Project Title:		codex				
Abstract of the proposed project: (word limit 300)		<p>The aim of this project is to create a web application that allows users to collaborate on the same codebase in real-time. The web application will provide a platform where multiple users can work on the same codebase simultaneously, regardless of their location. The web application will use a code editor that supports real-time collaboration and will allow users to see changes made by other users in real-time.</p> <p>The project will use a server that handles real-time collaboration using Socket.io and will use a database to store the codebase. The web application will be developed using HTML, CSS, and JavaScript for the front-end and Node.js for the back-end. The application will also include collaboration features such as real-time code editing, chat, and version control.</p>				
Detailed Methodology with proper diagrammatic representation:		<p>The collaborative web code editor application is a real-time collaboration tool designed to enable multiple users to work on the same codebase simultaneously. The application is built using Next.js, Socket.io, and MongoDB, which allows for seamless and fast communication between users. With Socket.io, users can see each</p>				

	<p>other's cursors and edits in real-time, making it easy to collaborate on code.</p> <p>The application provides a wide range of features and tools that make collaboration easier. Users can create and join teams to collaborate on specific projects, and they can also chat with each other to discuss their work. Moreover, the application also provides version control, code highlighting, and code completion features to make coding efficient and effective.</p> <p>Overall, the collaborative web code editor is a powerful tool for teams who need to work on code together. With its real-time collaboration features, it makes working together on code fast, efficient, and easy. The application is user-friendly and provides an intuitive interface, making it accessible to all levels of users.</p>
<p>Software/hardware required for the implementation:</p>	<p>React JS, Express JS, Node JS, Mongo DB, Socket.io, HTML, CSS.</p>
<p>Benefit to the society from the project</p>	<p>It enables student to collaborate in real time. After all, "Everything's better with friends". It enables students to teach each other, thus enabling peer to peer learning. It also enables teachers and mentors to personally monitor their ward from any place in the world.</p>

Shishir Shetty

Signature of the team leader

Signature of the HoD/ Principal
With seal