

## Product Development

Jayprakash Biswal, Kirti kamal Sahoo, Asutosh Nayak, Ujjwal Sinha ,Sushree Sangita Routray, Supriya Mahato all CSE students have developed software products in 2023 and 2024 which we have attributed in the following table.

Fifteen computer science & engineering students have developed three different software products for Ziroh Labs Electronics City, Bangalore, India in one-month duration in 2021-22. They have received financial benefits and the link is displayed in our Institute website.

(link: <https://tat.ac.in/academics/departments/computer-science-engineering/>).

In addition, a group of our departmental faculty members has developed an effective E-Government System through which students, faculty members, management all are benefitted. We have exhibited them in the following table with different attributed information.

**Table.B-5.7.3 1: Details of Software Products developed by Students and faculty members**

S.N	Product Name	Objective	Contributor Name	Link	Development Duration	Session
1	Callotrack:	AI powered caloric intake and expenditure Management System	Ujjwal Sinha, 3 <sup>rd</sup> Year CSE Student		01 month	2024
2	Smart Waste Management System (Smart India Hackathon 2024)	A smart waste management system that integrates unique dustbin identification, municipality monitoring, and data-driven collection. Enhances accountability, optimizes waste collection, and generates revenue through recycling.	Jaiprakash Biswal, 4 <sup>th</sup> Year CSE Student	<a href="https://github.com/Jayprakash7/Wastemanagement">https://github.com/Jayprakash7/Wastemanagement</a>	01 month	2024

3	AI based Cameras for Emergency vehicles	<p>Here in this project, we will use the pre-installed cameras (which are used for surveillance and challan of those who don't follow the traffic rules) that are present at the traffic junctions. We will install our artificial intelligence algorithm in that camera. When any emergency vehicle will be detected within a radius of 300 meter, then green signal will be given to that lane and by this the emergency vehicle can pass easily on the road without any disturbance and for this there will be zero involvement of the traffic police.</p>	Asutosh Nayak, 3 <sup>rd</sup> Year CSE		01 month	2024
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4	Farm Connect (Secured 3 <sup>rd</sup> position in the Open innovation track of IEEE IC Hack 2.0 the	Farm Connect is a community-driven agriculture platform built using React, Firebase, and 000Webhost. It enables farmers to sell their surplus seeds and fertilizers while connecting with local communities to collaborate on farming activities. The platform fosters resource sharing and collective farming efforts, empowering farmers to optimize yields and strengthen their agricultural network.	Kirti Kamal Sahoo, Sushree Sangita Routray, Supriya Mahato CSE students	<a href="https://github.com/KirtiKamal/farmconnect">https://github.com/KirtiKamal/farmconnect</a>	01 month	2023
5	Cloud File System API: WebDAV IO	Cloud File System API: WebDAV IO that has all file system functions. File System API shall be provided by Ziroh Labs Can use open source components	Pratik Kumar, CSE Chinmaya Garnaik, CSE Pooja Paul,CSE Pratikshya Gochhayat, CSE Laxman Kumar, CSE	<a href="https://github.com/pratik753/WebDavT">https://github.com/pratik753/WebDavT</a> Ziroh Labs Electronics City, Bangalore 560100, India	30 days	2021-22

		that are licensed under MIT or Apache Licens				
6	DuckDuckGo Search Widget	Secure search using API	Sagar Mohanty,CSE Rabinarayan Patra,CSE Tunisha Choudhury,CSE Kumar Akash,CSE Sourav Kumar Sahoo,CSE	<a href="https://github.com/pratik753/WebDavTrident">https://github.com/pratik753/WebDavTrident</a>	30 days	2021-22
7	Spell Checker & Auto-complete	Spelling checking function to be integrated with JS Editors and Auto-complete, suggestion functions on commonly occurring text to be integrated with JS Editors. Can use open source components that are licensed under MIT or Apache License	Chiranjibee Mohapatra,CSE Sanobar Yusuf,CSE Pratik Sahoo,CSE Kamal Acharya,CSE Piyush Kumar Prusty	<a href="https://github.com/pratik753/WebDavTrident">https://github.com/pratik753/WebDavTrident</a>	30 days	2021-22
8	Trident E-Governance	To provide full-fledged E-governance facility to its stakeholders including students, faculty members, management people	Mr. Aditya Narayan Das, Faculty, CSE Mr. Rahul Ranjan, Faculty CSE Mr. Akshaya Ku Das, faculty CSE Mr. Rabi Narayan Mohanty, Faculty, CSE Mr. Jyoti Ranjan Sahoo, Faculty CSE	<a href="https://ais.tat.ac.in/">https://ais.tat.ac.in/</a>	5 years	2020-2025