Vishwakarma Institute of Information Technology

Department of Information Technology

Final Year BTech Project - Abstract

(Academic Year: 2020-21)

Project Title: Supply Chain Traceability			
Project Group No.: A-17		**Guide Name:** Dr. Priya Shelke	
GROUP MEMBERS:			
Roll No./ Seat No.	**Name of Student**	**Project Area**	**Project Platform**
17u112	Ayush Bansal	Blockchain	Ethereum Blockchain, Solidity, Ganache, Truffle, Front End Technologies
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Abstract

The project is titled 'Traceability in Supply Chain'.

Various actors involved in the supply chain are Producers, Distributors, Retailers, Customers and Quality Checkers. The customers are unaware of the events happening to the items in the supply chain thus creating lack of trust in the minds of the customers. This project is intended to bring transparency in the supply chain by using Blockchain which allows for decentralized data storage and provides immutability. The decentralized data storage makes it impossible for an actor to change item details without having proper authorization. The customers can query product information by entering the unique code and know the status and events on the product in the supply chain. This project is expected to replace the ongoing methods employed by the industry to trace products in the supply chain, thus leading to an immense decrease in cost and efforts for the producers and making the products cheaper for the customers. The project will be developed on the Ethereum Framework using the Truffle framework which is used for developing, deploying and testing smart contracts using Solidity Programming Language. Ganache Framework will be used to create a private blockchain and Metamask Extension will be used to enter inside the blockchain. This project can be used by any manufacturing industry who wants to better track the products and bring transparency in the supply chain.