**PROJECT SYNOPSIS REPORT**

**ON**

**CRYPTO PAYMENTS ARCHITECTURE (CPA)**

**SUBMITTED**

**TO**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**FOR**

**INTEGRATED PROJECT (CS203 )**

**Semester:** 5

**Session:** 2023-2024

**Submitted By:**

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**Problem Statement:**

The rise of cryptocurrency as a means of payment has created a need for a reliable and secure web application that allows users to easily make crypto payments for consumer goods and services. There is a lack of applications in the current system to be able to easily make payments for day-to-day commodities using cryptocurrency.

To address these challenges, there is a need for a web application that simplifies the crypto payment process and offers a secure, fast and affordable way to transact with cryptocurrency. The application should support multiple cryptocurrencies, have a user-friendly interface and offer transparent transaction tracking and reporting. The application should also provide robust security measures to protect users’ funds and prevent fraud, such as two-factor authentication and secure wallet integration.

Overall, the problem is the lack infrastructure that provides for an easy-to-use method that facilitates crypto wallet to crypto wallet transactions that can drive adoption of cryptocurrencies as a mainstream payment method. The development of such an application would enable businesses and individuals to transact with cryptocurrency more easily and securely, ultimately leading to greater acceptance of cryptocurrencies in the global economy.

**Title of Project:**

Crypto Payments Architecture (CPA)

**Objective & Key Learning:**

This project will help us in learning about how to deal with real time traffic and also help us to learn more about the implementation of the iterative software model’s.

The objective is to come up with a web application that is able to facilitate the user-to-user payments for services or products.

* The Application will be able to use wallet addresses/QR codes to make the transactions
* The Application will provide the user with real time values of their wallets that are linked
* The Application will also provide real time value of the cryptocurrency that is to be used for transaction

**Options available to execute the project / Tech Stack:**

* Rest API
* MERN Stack:
* Mongo DB
* Express JS
* React JS
* Node.js

**Advantage:**

* Provides a way to easily make crypto transaction similar to UPI transactions