A Project Report On

Cryptocurrency Exchange Platform

Submitted in partial fulfilment of the requirement for the award of
BACHELOR OF TECHNOLOGY
IN
Information Technology

UNDER THE GUIDANCE OF
Mr. Agnivesh Pandey
(Assistant Professor)

SUBMITTED BY

Joydip Mahata (18107016)   Utkarsh Suryawanshi(18107042)

Chandradev Yaduraj(18107008)   Manvendra pratap Singh(19107732)

**DEPARTMENT OF INFORMATION TECHNOLOGY,
SCHOOL OF STUDIES OF ENGINEERING AND TECHNOLOGY,
GURU GHASIDAS VISHWAVIDYALAYA,
CENTRAL UNIVERSITY, BILASPUR, CHHATTISGARH,**

GURU GHASIDAS VISHWAVIDYALAYA

CERTIFICATE

This is to certify that the project thesis entitled " A decentralized Cryptocurrency Exchange Platform"being submitted by [Utkarsh Suryawanshi(18107042), Joydip Mahata (18107016), Chandradev Yaduraj (18107008), Manvendra Pratap Singh (19107732)] in partial fulfilment for the award of the Degree of Bachelor of Technology majoring in Information Technology to the Guru Ghasidas Vishwavidyalaya is a record of Bonafide work carried out under my guidance and supervision. The results embodied in this project thesis have not been submitted to any other University or Institute for the award of any Degree or any Diploma.

Guided By:

Head of Department

Mr. Agnivesh Pandey

Dr. Rohit Raja

ABSTRACT

The parties involved in the exchange have to fully trust the service provider. As it has been proven several times, this could lead to funds being stolen, either due to malicious ser-vice providers that simply disappear or due to hacks that these platforms might suffer. In this work,

we propose and develop a decentralized ex-change solution based on smart contracts running on the Ethereum net-work that is open, verifiable, and does not require trust. The platform enables two parties to trade different currencies, limited to Ethereum and Bitcoin in the current status of the system. A smart contract, de-played on the Ethereum blockchain, functions as an escrow, which holdsa user's funds until a verified transaction has been made by the other party. To make the smart contract able to detect a Bitcoin transfer, we implement our solution by utilizing an oracle. We define the system ar-chitecture and implement a working platform, which we test in a model scenario, successfully exchanging Bitcoin and Ether on the blockchain test networks.