DISTRIBUTED SYSTEMS

PROJECT – 3

 $\underline{PHASE-1}$

Working With Ethereum Blockchain

Submitted By: Karan Manchandia

INTRODUCTION

In this project we aim at exploring installation of Blockchain on Center for Computational Research (CCR) by testing a decentralized application and also by designing and deploying application on blockchain. Blockchain is an emerging technology and it enables distributed public ledgers that hold data that is immutable in a secured way. In simple words blockchain ensures that transaction can never be altered.

In the Phase 1 of the project we will install Ethereum Blockchain node. We will create a key pair and account number for coin transfer. We will be interacting with a coin app for sending and receiving the coins that we are provided with.

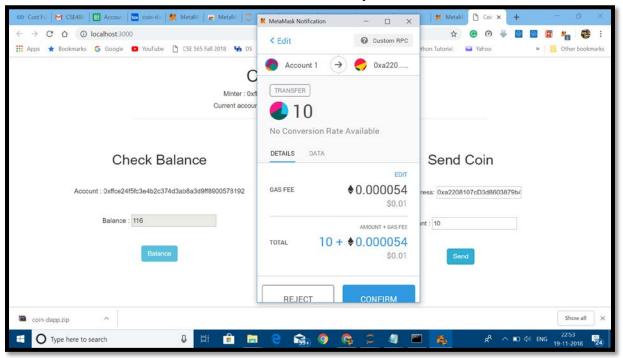
PREREQUISITES AND INSTALLATIONS

- Install node js with npm packet manager.
- Install Truffle using command npm install –g truffle.
- Install metmask, which is a browser plugin that allows your browser to interact with the blockchain.

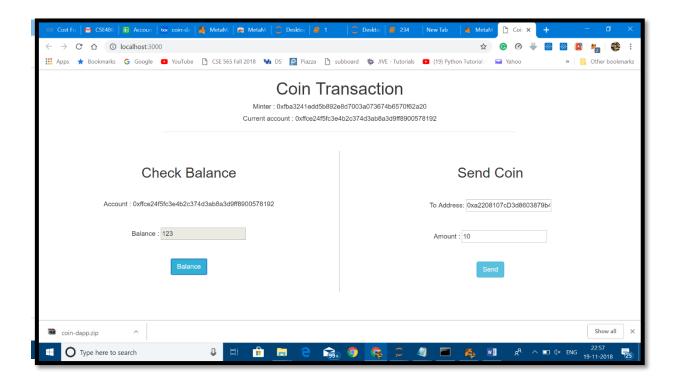
[Note: We follow further instructions as written in project description document for sending and receiving coins using coin app. The screenshots of the coin app are attached below.]

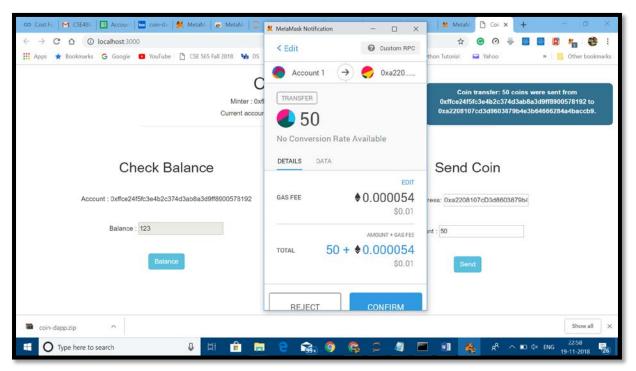
SCREENSHOTS

Below shown are the screenshots of coin transfer done by Karan Manchandia:

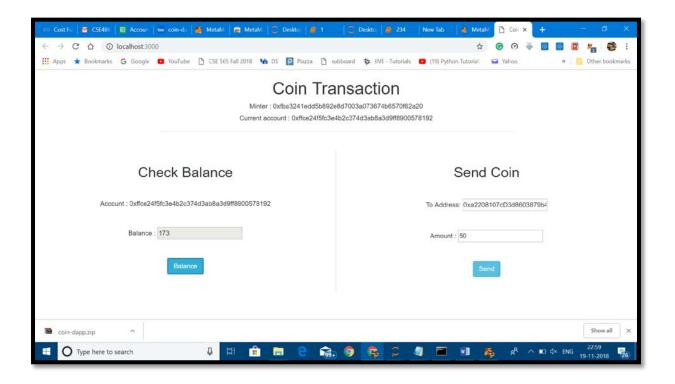


Screenshot Showing Transfer of 10 coins



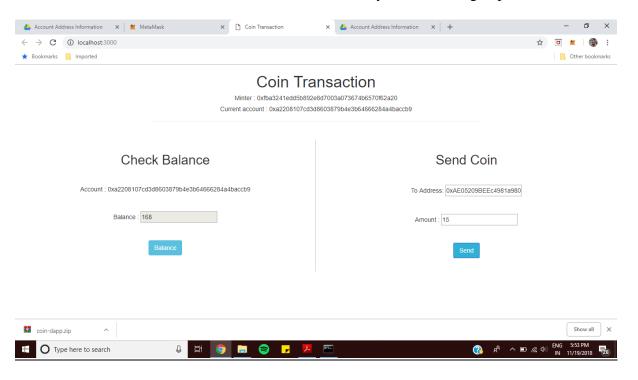


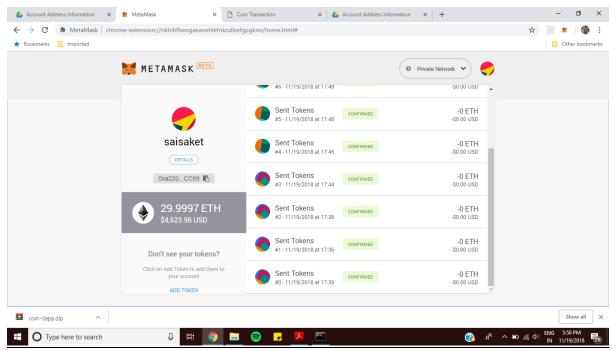
Screenshot Showing Transfer of 50 coins



Screenshot showing steps to start the coin app

Below shown are the screenshots of coin transfer done by Sai Saket Regulapati:





Screenshots Showing all Coin Transfers

