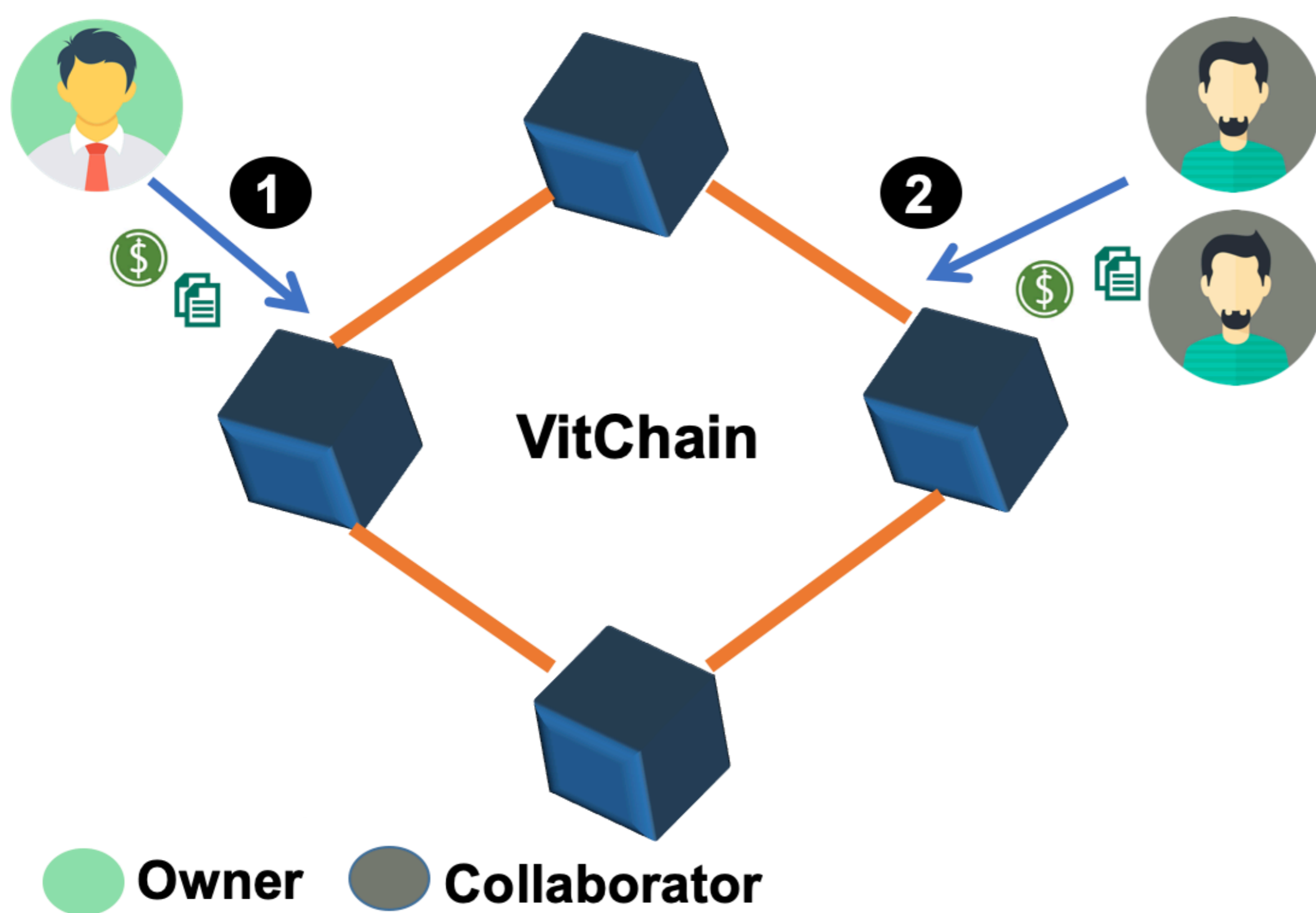# Version Control on Blockchain

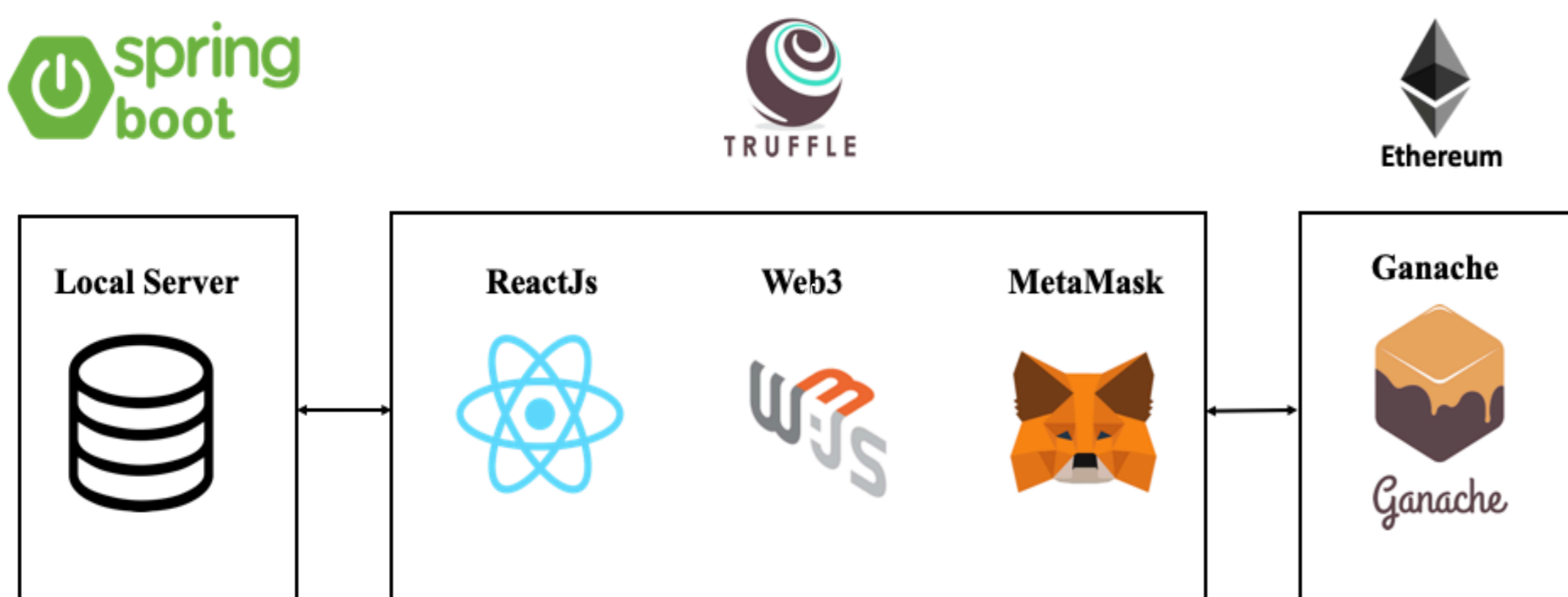Student: Leow Zheng Xu   Supervisor: Dr Sourav Sen Gupta

A decentralized version control platform such as Git developed using Blockchain to enhance security and preserve the ownership of a repository. This project introduces how Blockchain can help in functions such as Push, Pull and Commit. Ethereum Framework was used because it was designed to build application beyond money.

User Flow

VitChain

● Owner   ● Collaborator

1. Owner will be able to create a repository into the Blockchain

2. Collaborators can then Push, Pull or Commit their code into the Blockchain by paying gas fee.

System Overview

spring boot

TRUFFLE

Ethereum

Local Server   ReactJs   Web3   MetaMask   Ganache
Ganache

Hashes in Git

Root #   Root Directory
JSON   F#
                       Fo#
                              F#

\# = SHA-256 Hash
F = Files
Fo = Folders