**Decentralized Social Network**

DBMS Project by

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**Introduction**

Beneath the flashy homepages of your favorite stars lurk FaceBook™ and other evil companies out to hoard and sell your personal data. With the rise of FakeNews and the high profile political scandals of FaceBook, it is time for the next wave of technology to come forth.

What was built to be the ultimate platform for the experience of being social has turned into a money-hungry monster feasting on our privacy and freedom.

**But fear not, for Decentra has the answer! And it’s simple:**

An autonomous peer-to-peer network cluster featuring distributed pod networks  
on a private blockchain that ensures user privacy and a whole new level of social

Put even simpler — it’s a completely free, private and decentralized social experience!

**Decentra** is based on three key philosophies:

1. **Decentralization** : Built on a private blockchain
2. **Freedom** : To choose your privacy and how you interact and with whom
3. **Privacy** : You own your data and all the content you produce!  
   It is so simple, yet so very beautiful!

## screenshot.png

## Technical Specifications

#### Hardware required (Server):

* System with atleast Intel core i3 processor or similar, multicore.
* As much RAM as possible.
* NOT a virtual machine or emulated device.

#### Software required (Server):

* Ubuntu 18.04 with apache2 server
* Python 3.\*
* Google Chrome Browser, with Metamask extension
* Etherium Core
* MongoDB core / postgreSQL
* Java (JDK8 or above)

#### Hardware required (User):

* Any system with a commonly used OS.
* Atleast Intel core Pentium4 or similar processor. Advanced ARM based systems (RPi, most Android devices) can use it too.
* 1 GB initial free storage.
* Internet connection with minimum speed of 1mbps.
* 4 GB RAM, 512 MB free.

#### Software required (User):

* Etherium core
* Etherium Wallet (Recommended)
* **Decentra** application
* Java (JDK8 or above)

## Project Specifications

#### Languages and Frameworks used:

* Python 3.\*
* Flask / Django
* Javascript
* JSON
* Solidity
* React Native
* MongoDB / postgreSQL

#### Inspiration:

* Facebook Scam
* BlockChain Technology

#### References:

* Online course fragments
* Research papers on Consensus Algorithms

#### Future of Decentra:

* Private blockchain, independent of the Etherium Blockchain.
* Lesser dependencies for the end user - just install the application!
* Few features offered by most social sites today.