**Load document  
Calvin Hong - 431518**

The blockchain allegedly originated from Japan. For this reason, the population of Japan was taken for the load document as the peak scenario. The current population of Japan (2022) is around 125.5 million.

Diagram

Description automatically generated

**Minting Dapp**

The minting Dapp only has the functionality to mint NFT’s. Besides this, it cannot do anything else.

Usually, each NFT Collection starts out with 10.000 items. This creates a scarcity which stimulates users to mint. In theory, it is possible to create a collection with millions, but this removes this stimulation, which results in users not minting because there is no exclusivity. The following scenario is unlikely, but possible.

|  |  |  |  |
| --- | --- | --- | --- |
| **Request title** | **Req per user** | **Total requests per day** | **Graph** |
| Mint | 1 | 125.5 million |  |

Diagram

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **Request title** | **Base** | **Average per second** | **peak** |
| Mint | 0 | 1.483,5 | 95.000.000 |

**Social platform**

The social platform is meant for holders (people with an NFT) to communicate with each other. While non-holders can also use this application, holders will have special perks. The main functionalities will be chatting and posts.

|  |  |  |  |
| --- | --- | --- | --- |
| **Request title** | **Req per user** | **Total requests per day** | **Graph** |
| Login | 1.5 | 188.25 million |  |
| Register | 1 | 125.5 million |  |
| Post | 2 | 251 million |  |
| Like | 15 | 1.9 billion |  |
| Comment | 5 | 627.5 million |  |
| Chat | 10 | 1.3 billion |  |
| Add friend | 1 | 125.5 million |  |

Diagram

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **Request title** | **Base** | **Average** | **peak** |
| Login | 10.000.000 | 2.225,7 | 65.000.000 |
| Register | 5.000.000 | 1.483,5 | 35.000.000 |
| Post | 17.500.000 | 2.966,9 | 100.000.000 |
| Like | 22.500.000 | 22.458,6 |  |
| Comment | 15.000.000 | 7.417,3 |  |
| Chat | 20.000.000 | 15.366,4 |  |
| Add friend | 7.500.000 | 1.483,5 |  |

Diagram

Description automatically generated**Game**

|  |  |  |  |
| --- | --- | --- | --- |
| **Request title** | **Req per user** | **Total requests per day** | **Graph** |
| Login | 1.5 | 188.25 million |  |
| Register | 1 | 125.5 million |  |
| Start game | 2.5 | 313,8 million |  |
| Buy Item | 2 | 251 million |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Request title** | **Base** | **Average** | **peak** |
| Login | 10.000.000 | 2.225,2 |  |
| Register | 5.000.000 | 1.483,5 |  |
| Start game | 15.000.000 | 3.709,,2 |  |
| Buy Item | 12.500.000 | 2.966,9 |  |