# Weekly updates in this color, changes based on peer review in this color

# Document Information

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| **Project name:** | Paper Gap Wallet |
| **Date:** | 28th Jan 2021 |
| **Author:** | Team 12 |
| **Owner** | Jason Quinlan |
| **Document code:** | 001 |
| **Version:** | V0.02 |

# Approval

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| **Date** | **Name and Signature** |
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# Notes

# Definition

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| **Background:** | Satoshi Nakamoto created Bitcoin and now we are here |
| **Main Goal:** | Build a secure environment for Bitcoin Paper Wallet  Generation |
| **Desired Outcomes:** | Have a fully functional, easy-to-use app, even for non-technical  users |
| **Constraints and Assumptions:** | The “Paper Gap Wallet” app will be used by the Bitcoin  enthusiasts in need for cold storage Paper Wallet.  The main constraint is that the app needs to be simple  enough that even non-technical users are able to use it  securely |
| **Interfaces:** |  |
| **Project Approach:** | In-house project |
| **Project Product Description:** | An App, that creates a live, bootable USB Linux distribution (i.e. Linux distribution that can be booted from removable storage media (USB) instead of installed/booted from Hard Disk Drive.  Once booted, it is a small, one-app system that is air-gapped (i.e. network security measure used by computer to ensure that a secure computer network is physically isolated from unsecured networks (public Internet/ unsecured LAN).  User is welcomed by start page of the wallet app that takes them through steps to generate wallet seed and public keys. |

# Outline Business Case

The project will benefit the Bitcoin community greatly by increasing the security of

Bitcoin network users and their funds. Especially for new and non-technical users who

wish to keep their Bitcoin in cold storage for long periods of time.

The major risk as always with the Cryptocurrency space is the possibility of losing the funds or funds being stolen by a malicious entity (hacker). Our team will try to combat this by keeping up with the latest security standards when developing our application and by keeping the code base as small as possible to reduce the attack surface.

*Key Terms:*

**Mnemonic/Bitcoin Seed**: 24 word list, that stores all of the info needed for user to recover their wallet. Each wallet has a seed.

**Wallet:** software program which stores cryptocurrency/Bitcoins.

**Cold Wallet**: it cannot be compromised as it is not connected to the Internet. It stores the users address and private key and works in conjunction with compatible software in the computer.

**Address**: unique identifier serving as a virtual location where the cryptocurrency can be sent.

**Public Key**: corresponds to private key, and compressed into a public address that is shared in blockchain. **Blockchain** = records info in a way that is hard to hack/change as every ledger has all records.

**Private Key:** allows user to access their cryptocurrency and is proof they own the public key.

# Key Stakeholders

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| --- | --- |
| **Major Stakeholder** | **Notes** |
| **Jason Quinlan** | Project Owner |
| **Janine Dunlea** | Project Stakeholder |
| **Robert O'Brien** | Project Stakeholder |
| **John Furlong** | Project Stakeholder |
| **Oliver Cunnington** | Project Stakeholder |
| **Ozzak Matic** | Project Stakeholder |
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# Project Objectives

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|  | **Target** | **Tolerance** |
| **Scope** | Paper Gap Wallet Application | Some flexibility in final deliverable |
| **Time** | 22nd March | No late submissions |
| **Cost** | n/a | n/a |
| **Quality** | Excellent | Nothing but the best |
| **Risks** | Security gaps | Low tolerance / community peer review |
| **Benefits** | n/a | n/a |

# Project Management Team

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| --- | --- | --- |
| **Role** | **Reports to** | **Appointee** |
| **Master Of The Universe** (Linux dev) | **Jason Quinlan** | **Ozzak Matic** |
| **Technomancer** (Linux dev) | **Jason Quinlan** | **Oliver Cunnington** |
| **Grand Byte-Wizard** (Front-End dev) | **Jason Quinlan** | **Robert O'Brien** |
| **PyLord** (Python dev) | **Jason Quinlan** | **John Furlong** |
| **Code Empress** (Python dev) | **Jason Quinlan** | **Janine Dunlea** |
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