User Stories

Project Name: One Configurable Standard (1CS)

Value Proposition: 1CS enables users to manage an Access Control List (ACL) for their assets, granting specific permissions to other wallets. These permitted wallets can perform designated operations on the assets, such as modifications or, with sufficient permissions, even adding additional wallets on behalf of the owner. Notifications for permitted wallets can be facilitated through Blinks (Dialect). By leveraging the ACL defined in the 1CS protocol, users can seamlessly perform a wide range of tasks such as sharing ownership of digital assets, owning multi-owner NFTs, utilising time-based data or asset accessing, having borrowed wallets, etc, without the need to rely on multiple protocols, applications, or wallets.

Product-Market Fit: As of now, in Solana or other blockchain ecosystems, access management of data or assets is not properly explored. For instance, while separate protocols exist, such as token delegation or transferring ownership mechanism, there is no single solution which addresses all these challenges comprehensively. 1CS fills this gap by offering a range of protocols for advanced access management. By leveraging these protocols, use cases such as having backup wallets or having an application for Willing tokens/ assets (accessible by designated wallets after a set time), multi-sig functionality by standard wallets are possible. Hence, 1CS positions itself as a versatile and essential tool for enhancing access management in the web3 ecosystem.

Target User Profiles:

- **The “Prepared Planner” wallet user:** This user is quite concerned about losing access to her primary wallet and thus seeks a reliable backup solution. The user wants to implement a protocol where she can create a backup wallet to her primary wallet, where both wallets store the same assets. In case any one of the wallets is lost, she can always move to the other wallet to access her resources.
- **The “Legacy Planner” Crypto Investor:** This user is focused on ensuring that his digital assets can be securely passed on to designated individuals. He is deeply concerned about the possibility of his lifetime resources being lost if he is unable to share access with his heirs. To address this concern, he seeks a token will solution that leverages time-locked permission protocols, enabling one or multiple allocated wallets to access the assets after a specified period. This approach ensures that the resources are preserved and can be transferred securely to his beneficiaries.
- **The “Efficiency and Privacy Seeker” Crypto Whale:** This user wants to delegate some of his assets to his peers for them to work on the assets and hopefully to bring sufficient profits during Bear Market, without giving them full access to his wallet (and thus his entire portfolio) or sending his own assets to the wallets of the peers. He appreciates the transparency and customization offered by 1CS, allowing him to maintain privacy while granting necessary access to trusted parties.
- **The "Credential Custodian" Organisation:** This organisation wants to issue certificates and other resources to its members, while requiring a secure access controlling mechanism to update or revoke memberships and other benefits when necessary. It is willing to implement 1CS to manage this mechanism.

User Story ID: 1CS-001

1. User Persona

- **Name:** Farha
- **Role:** Crypto Wallet user
- **Goal:** Trying to make sure her assets can be accessible even if she loses access to her wallet.

2. User Story: As a naive crypto user who holds a few meme coins in my Phantom wallet, I am quite concerned about what would happen if I somehow lose my Phantom wallet. Since I do not have a laptop or any other device, the only way I can access my wallet is through my phone. I also hate the idea of storing my secret phrase somewhere else, because I am certain I will not remember where I wrote it down. I, therefore, want to have a mechanism where I can have a backup wallet. I think I can download a Solflare wallet if it can store the same assets as my Phantom wallet and hence I can still access the assets if by mistake I delete one of the wallets.

3. Acceptance Criteria

- **Functionality:**
    - The platform should be able to provide a “full access” functionality of some assets owned by a wallet to another wallet.
    - The platform should allow the owner of the assets to add multiple such delegated wallets.
    - If enough permission is given, a delegated wallet can add other wallets as well.
- **Attributes:**
    - Displaying information regarding delegated wallets and their permission type.
    - Click handler to delegate more wallets to wallets with enough permission.
- **User Interaction:**
    - Only delegated wallets should access the assets.
    - Only wallets with specific permissions can delegate more wallets.
    - Only the owner can transfer ownership to a different wallet.

4. Priority

- High

5. Technical Notes

- **Dependencies:**
    - This story requires working with both native SOL and SPL tokens.
    - Click handler in the frontend to display delegated wallets.
    - Click handler in the frontend to delegate more wallets.

    - Blinks link to notify newly delegated wallets.
- **Considerations:**
    - Start with a DAPP with in-built storage mechanism which can act as backup wallets.
    - Later collaborate with existing popular wallets to provide the backup wallet idea entirely on Solana wallets.

User Story ID: 1CS-002

1. User Persona

- **Name:** Paul
- **Role:** A senior crypto investor
- **Goal:** Trying to make sure his lifetime resources can be shared to his heirs.

2. User Story: As a senior crypto investor, I am quite concerned on how I can make sure my crypto assets are transferred to my heirs in time. Unlike physical resources, where I can give my resources to my heirs through an attorney, there is no such solution to will my crypto assets to them. It would give me the necessary peace of mind if I could make sure my heirs could access all my resources after a certain time, say 5 years.

3. Acceptance Criteria

- **Functionality:**
    - The platform should provide a “time limited” access to delegated wallets.
    - The time limited access should have a starting time (set by the owner). When the time is reached, delegated wallets will be able to access the resources.
    - The platform should possibly provide a “transfer ownership” functionality which can run sometime in the future (ideally during the same time the start time is set for the time limited access).
- **Attributes:**
    - Displaying information regarding delegated wallets and their permission type, along with the starting time since when they can access the assets.
    - Displaying information regarding which wallet is selected as the new owner (if one is selected) with the starting time since when the ownership transferred.
    - Ability to add multiple wallets with different starting time for time limited access.
- **User Interaction:**
    - Current owner should be able to add multiple wallets for time limited access through the frontend.
    - Current owner can have the scope to delegate a wallet as the new owner. Current owner will also set the timestamp since when the new ownership will stand.

    - Click handler to see the delegated wallets and their starting time for time limited access.

4. Priority

- High

5. Technical Notes

- **Dependencies:**
    - This story requires working with both native SOL and SPL tokens.
    - Click handler in the frontend to display delegated wallets.
    - Mechanisms for the new owner to accept ownership (by calling the transfer ownership) function after allocated time is reached.
    - Blinks link to notify newly delegated wallets.
- **Considerations:**
    - Create a Will based DAPP for providing the platform.

User Story ID: 1CS-003

1. User Persona

- **Name:** Zak
- **Role:** A crypto whale
- **Goal:** Wants to delegate specific assets to his peer team instead of providing his wallet credentials to them.

2. User Story: As a crypto businessman with a medium-sized peer team behind my back, I often find myself in a funny situation where I need to allocate some of my assets to my peers so that they can work on bringing me profits while I can work on other matters. It will be foolish if I give away my wallet credentials to them, as it brings security threats, while I don't want to just transfer my assets to their wallets either. As of now, we are working with multi-sig wallets, but I would like a simpler yet better approach where I could manage my assets with my peers while having a hierarchy of permissions among us.

3. Acceptance Criteria

- **Functionality:**
    - The platform should allow the owner a list of permission to allocate to the delegated wallets.
    - The delegated wallets should be able to access only the assets they have been given permissions to access, but not the entire portfolio of the owner.
- **Attributes:**

    - Owner should be able to select the amount of assets and the corresponding delegated wallet.
    - Displaying information regarding delegated wallets and their permission type.
    - Click handler to delegate more wallets to wallets with enough permission.
- **User Interaction:**
    - Frontend platform for users to see the delegated wallets and their associated tokens.
    - Click handler to change or revoke permission for the owner and wallets with enough permissions.

4. Priority

- Medium

5. Technical Notes

- **Dependencies:**
    - This story requires working with both native SOL and SPL tokens.
    - This story should be scalable enough to later incorporate NFTs as assets.
- **Considerations:**
    - Start with a DAPP with in-built storage mechanism which can act as backup wallets.
    - Later collaborate with existing popular wallets to provide the backup wallet idea entirely on Solana wallets.

User Story ID: 1CS-004

1. User Persona

- **Name:** Sarah
- **Role:** Manager of Gamers' Club
- **Goal:** Trying to make sure that the members can be given digital certificates which they can use to gain different benefits within the club, while making sure that the management holds the ownership of the certificates.

2. User Story: As the manager of the Gamers' Club, me and my team often get this responsibility to provide digital certificates to our members. The type of certificate can vary, depending on the subscription plans that the members have bought, and it can change as well in case one member decides to upgrade or degrade her plan. Sometimes we also need to revoke the certificates for members who leave the club. As of now, we are using NFTs with dynamic

metadata. We are aware that options like soul bound tokens are also considerable, but we would like to use a simpler solution. With 1CS, we can manage the subscriptions with only data. Besides, it's much easier with 1CS to manage the benefits that one certificate can access.

3. Acceptance Criteria

- **Functionality:**
    - The platform should allow the owner and wallets with enough permissions to revoke access of a wallet.
    - The platform should allow the owner and wallets with enough permissions to upgrade or degrade permissions for a wallet.
    - The platform should allow the owner and wallets with enough permissions to provide time limited access with starting time and ending time as parameters.
- **Attributes:**
    - Revoking access to a wallet.
    - Modifying permission of a wallet.
- **User Interaction:**
    - Frontend handler to grant time limited access to other wallets.
    - Click handler to modify permissions of a wallet.
    - Frontend handler to manage the assets that a wallet can access.

4. Priority

- Medium

5. Technical Notes

- **Dependencies:**
    - Native or SPL token not needed.
    - An edit permission functionality.
    - An edit data functionality.
- **Considerations:**
    - Create a permission based DAPP for providing the platform.