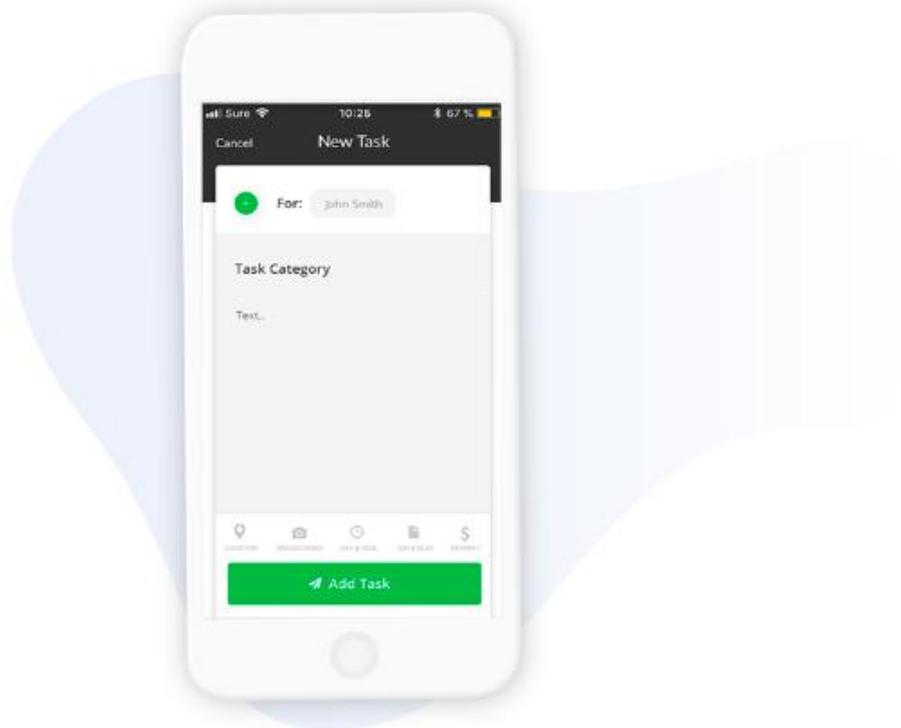# The Canyu.do Mobile Application

In addition to the many benefits in terms of project organisation combined with instant notification of tasks/jobs/events/items available within the marketplace, all of which can be accessed for free, at its core the app is essentially _a user controlled smart contract creation mechanism._

Entities that wish to process a transfer of value (data, cryptocurrency) or generate proof of an agreement (receipts, quotations, project terms) can create a smart contract and assign it to another party. Once both parties indicate readiness to proceed via a security check, the contract is executed and a permanent record added to the distributed ledger.

The benefits of a blockchain system far outweigh its primary intended purpose as a payments processor, since a record on the distributed ledger gives absolute assurance that a transaction has taken place. It can therefore be used to evidence that a document has been sent and received, or ownership transferred, or a service contract agreed upon, even where no actual transfer of monetary value has taken place.
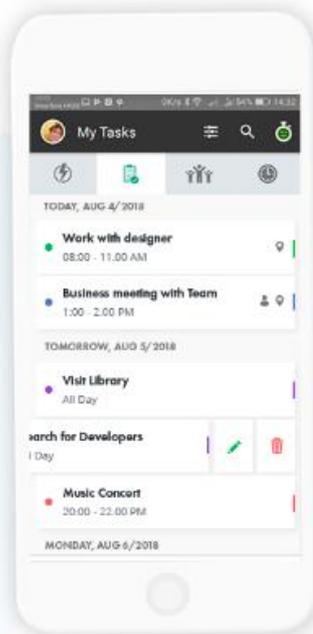
Task Creation

To begin users download the app to their smartphone/tablet/pc (free) and can then begin to create tasks for others. Adding pictures/posters/video (to describe the activity) is easy, and documents or data files can be attached also. Location tagging helps to indicate where the activity is to take place, and contact details can be included in a free form text section should there be a need for discussion. Sub-tasks can be added within the main task (great for ticketing) and a payment amount in cryptocurrency can be included too.

Custom User Feed

Once a task has been created, it can be assigned as follows (can be a combination of):

- to specific app users (from the user's contacts and/or based on email address or name);
- or a group of app users based on skill set (e.g. all plumbers or carpenters);
- or a pre-defined group of app users (e.g. a staff network or mailing list);
- or to any of the above categories, but within a user defined geographical radius (e.g. all staff members currently located within 20 miles of my location);
- or to all app users on the network (no specific assignee; items found via search).

Tasks that meet criteria defined by the user in their profile, or tasks that are specifically assigned to an individual user, automatically appear in their custom 'feed' (task list). In practice this means that users who undertake tasks listed via the app can specify in advance which types of tasks they are most suited to complete and have these prioritised for them.

Each time a user logs into the app their feed is updated to show the latest opportunities available based on their profile, but app users can also search for tasks/items/jobs using a combination of category, location and/or item name, and again the results are displayed in their feed.

User Profile

Users that wish to either offer payment in return for a task they create, or receive a transfer of value for a task they undertake, or execute a smart contract via the app, must provide standard 'know your customer' documentation before they can proceed.

This forms the basis for their user profile, but additional information can be included in order that tasks they are qualified for or suited to, and/or specific items they wish to buy, and/or specific events they wish to be notified of, are allocated directly into their user feed without them having to perform a search.

A user profile may contain the following (items marked with * are mandatory):

Personal
- full name *
- address *
- date of birth *
- email *
- passport / social security number *
- passport / social security scanned image *
- selfie *
- default charity choice
- formal qualifications
- job title (current)
- work experience / capability (category based)
- interests (category based, can be a combination of events or a wishlist of items)

Business
- full name *
- head office address *
- company registration number *

- contact email *
- contact tel *
- company logo *
- industry *
- work undertaken (category based)
- default charity choice

User Data Control

Each user has access to their own transaction summary screen, which they can use to see total payments sent or received, items bought or sold (digital receipts) and/or tasks created or completed. Any task that processes a payment in cryptocurrency automatically results in a record being added to the distributed ledger.

At the point where tasks are marked as complete, the record is generated and displayed via this reporting function within the app. Users can opt to receive these 'digital transaction receipts' by email if they wish to, or just keep an offline record within the app, to be accessed only via successful completion of their security passphrase check.

This places sole control of data recorded by the app explicitly into the hands of the user, making it easy for them to provide proof of an activity or transfer of value if they wish to do so, but at the same protecting their data from unsanctioned interested 3rd parties.

User Ratings System

Since task creators who open the job up to random users (e.g. every plumber within 100 miles) may receive more than one application from prospective task doers, a ratings system is provided to give them some surety as to the character and suitability of the applicant.

As tasks are completed, both parties to it will be asked to rate the other via a simple 'how many stars out of 5' system, but the overall rating includes other information recorded by the app. This aspect will be governed using AI technology making it fair for all, and takes into consideration aspects such as user response time, user reliability and user skill set, as well as their overall rating from prior tasks they have completed.

Data Wastage

Once a task has been specifically assigned or has been marked as completed (agreement entered into for value processing at a later time, or agreement reached and smart contract executed), the

task is removed from all other user feeds via quota cancelling technology for which we have patent pending in the United States and various other international jurisdictions.

This helps to keep task lists current for all app users and also significantly reduces the data load on the network.

Non Fee Generating App Use

There are no documentary requirements for casual users. Login can be achieved via text message validation, email validation, Facebook credentials, or Googlemail user details.

KYC/AML documentary requirements are only demanded where the user wishes to transact in cryptocurrency via the app, or execute a smart contract. For tasks where there is no transfer of value between app users, or no requirement to add an entry to the blockchain ledger, we impose zero restriction in terms of app function.

Utilising Smart Contracts

A smart contract processes a transfer of digital assets between entities where conditions agreed upon by both parties have been fulfilled. Smart contracts generated through use of the Canyu.do app are run on the Ethereum (ERC20) platform.

Smart contracts can be created for execution on a future date, and/or can utilise multi signature security requirements. All smart contracts are executed in the base currency of the app (CYD/KYD).

The contract proposer creates a task and assigns it to the contract fulfiller, who then reviews terms and if in agreement accepts them via their security passphrase associated with their integrated wallet. A smart contract is then created between the two parties and both receive notification that terms have been agreed.

Once the task is complete and both parties confirm assent (again via the security passphrase associated with the wallets), the contract is executed and the transfer of value processed between them.

The Canyu.do Integrated Wallet

Once registration is complete the app user is provided with a digital wallet for transacting in cryptocurrency. The wallet functions in line with all other standard cryptocurrency wallets, and users can transfer currency in and out at their discretion.

To execute a smart contract that has a payment value as part of its terms, users must have funds available within their wallet. For contracts that have a future date of execution, payers will have their balance deducted at the time of contract creation, to be held in escrow pending release to the beneficiary on the specified date, or at such time as both parties agree the task is complete.

Since funds can only be released when both parties confirm readiness via their security passphrase check, disputes can be handled only by app users and resolution is dependent on mutual consent (consensus) rather than arbitration by our company.

For more detail about our product, our token sale or our company, please feel free to contact us at the details below.