

MyCONTEXT Cancer Record

TRIBE PRODUCT PROPOSAL

TRIBE INFORMATION

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Product Owner:	Alwyn Davies
Product Owner Contact:	http://contexthealth.com
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Product Owner Class:	<input type="checkbox"/> Start-up <input checked="" type="checkbox"/> SME <input type="checkbox"/> Enterprise <input type="checkbox"/> Research Centre <input type="checkbox"/> NGO
Business Domain:	Health

Update Frequency:	Fortnightly
Preferred Meeting Method:	In Person
Availability:	All days

TRIBE PRODUCT INFORMATION

Title:	MyCONTEXT Cancer Record
Aims:	Product allows the granular control of a patient record to be management by the patient themselves via interaction with a distributed ledger. The patient can trade or auction their medical record based on bids from 3 rd party pharmaceutical or medical researchers.
Description:	Clinical Records are generated throughout a person's life relating to their points of care, interventions and treatments as and when they need them. These records hold valuable details of a private and confidential nature. The sharing of this information can be difficult to monitor and in clinical scenarios could lead to a compromise of data security.

	<p>The ability to “own” and access these details would be a paradigm shift in the management of Clinical detail. The added capability to share and moderate access would significantly add to the value of this type of information.</p> <p>The use of Blockchain encryption in the securing and sharing of these records is a relatively new approach to how data is stored, activated and permissible structures around its’ use. Blockchain opens up a whole new economy for the advanced use of these details for research and development, as well as advancing the immediacy of its availability.</p> <p>Use of Blockchain and “zero knowledge” data access, as well as distributed ledgers will allow for the building of an advanced identity management platform where Patient’s (Data Owners), Institutions, Clinical and Support staff will be registered. These users can “share” access to records and responsibility for the input details. This will allow the warranty and trust for access and input trails as well as provenance of the details to be validated forward.</p> <p>MyCONTEXT Cancer Record intends to leverage the power of Decentralised Ledger Technology (DLT) to offer increased availability, governance and efficient access to a Patient’s record across the spectrum of Cancer care interventions. This will create new efficiencies for patients, Cancer Services and others in the delivery of health interventions by reducing the time and effort taken to achieve access to timely, and complete patient records and collaborating practitioners</p>			
Deliverables:	<p>Deliverable 1 – Construction of a realistic synthetic dataset of patient records necessary to exercise the prototype blockchain implementation.</p> <p>Deliverable 2 – A tool for specific data collection for patient care details across many unlinked records</p> <p>Deliverable 3 - Access control logic and module that allows the permissioning of an individual health record on a blockchain, explicit consent at each point of interaction</p> <p>Deliverable 4 – CRUDE of individual health records implements on a blockchain</p>			
Technical/Professional Skills Required:	Role	Number required	Skills	Proficiency
List the skills that the squad members should have so that they can successfully complete the deliverables.	Programmer/Developer	2	C++, Java or C#	High
	Project Manager	1	Microsoft project or similar workpackage management tool	High
	Graphic/Web designer	1	Flair for graphic and website design in Photoshop or similar	Medium
	Database developers	2	Ideally has used blockchain databases	High
		1	Can search and find, compare	High

	Documentation and desk researcher		and contrast products, systems and applications and communicate to team members	
	Data scientist/Text Analytics	2	Python	Manipulate and collect patient data across many unlinked records
Available Resources:	[List any resources that are relevant to the project and that the team will have access to.] <ul style="list-style-type: none"> • CONTEXT Whitepaper • 			
Stakeholders:	[List the stakeholders involved in the project.] <ul style="list-style-type: none"> • contexthealth.com • 			
Potential Industry Engagement Partners	[List potential industry partners we should engage for technical, mentorship, workshops, collaboration.] <ul style="list-style-type: none"> • • 			
Dependencies:	[Existing systems that the proposed solution will be required to integrate with.]			
Additional Information:	[Any extra information about the project.]			

Are there future opportunities? (E.g. employment, projects, internships, contract work.)

☒ Yes

☐ No