MyCONTEXT Cancer Record

TRIBE PRODUCT PROPOSAL

TRIBE INFORMATION

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| **Tribe Leader Name:** | Peter Eklund |
| **Email Address:** | peter.eklund@deakin.edu.au |
| **Phone Number:** | 0435 949 953 |

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| **Product Owner:** | Alwyn Davies |
| **Product Owner Contact:** | http://contexthealth.com |
| **Email Address:** | alwyn.davies@contexthealth.com |
| **Phone Numbers:** |  |
| **Product Owner Class:** | Start-up  SME  Enterprise  Research Centre  NGO |
| **Business Domain:** | Health |

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

TRIBE PRODUCT INFORMATION

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| 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 3rd 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.  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.  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.  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.  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 | | | |
| Deliverables: | Deliverable 1 – Construction of a realistic synthetic dataset of patient records necessary to exercise the prototype blockchain implementation.  Deliverable 2 – A tool for specific data collection for patient care details across many unlinked records  Deliverable 3 - Access control logic and module that allows the permissioning of an individual heath record on a blockchain, explicit consent at each point of interaction  Deliverable 4 – CRUDE of individual health records implements on a blockchain | | | |
| Technical/Professional Skills Required:  List the skills that the squad members should have so that they can successfully complete the deliverables. | Role | Number required | Skills | Proficiency |
| 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 |
| Documentation and desk researcher | 1 | Can search and find, compare and contrast products, systems and applications and communicate to team members | High |
| Data scientist/Text Analytics | 2 | Python | Manipulate and collect patient data across many unlinked records |
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| Available Resources: | [List any resources that are relevant to the project and that the team will have access to.]   * CONTEXT Whitepaper | | | |
| Stakeholders: | [List the stakeholders involved in the project.]   * contexthealth.com | | | |
| Potential Industry Engagement Partners | [List potential industry partners we should engage for technical, mentorship, workshops, collaboration.] | | | |
| 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