**Project Definition**

|  |  |
| --- | --- |
| Background | Objectives |
| With a changing and dynamic infrastructure, getting at a glance and detailed information about the platform is difficult and useful. There is currently no easy way to get this information in CD. | The Project Should allow:   * Users to see number of Docker Hosts for each development team – (along with list of IP addresses) * Users to see the number of Docker Containers on each Docker Hosts – (along with list of basic information of each container) * Users to see the resources allocated to each Docker Host (CPU, RAM, DISK(s)) * Resources allocated to each development team (Total of CPU, RAM, DISK). * Users to decide how they want the information broken down and presented (by team, environment, host, etc.) |
| Desired Outcomes | Project Scope & Exclusions |
| The ability to see the state of CD infrastructure in a web-based GUI, which can function as a dashboard. | The project scope is the creation of a web application for the visualization of CD infrastructure items and information about those items. |
| Constraints & Assumptions | Project Tolerances |
| * A maximum of two Associate Devops Engineers will be assigned full time. * The project will run for 4 months. * A Devops Engineer or Senior Devops Engineer will be available for consultation and approval. * Technology must comply with CD SRE standards, and new technology must receive managerial approval. * All pertinent CD SRE policies and procedures must be followed. * Organisation of work will be done via Scrum. | The Project goes into exception when there it is more than a week (5 working days) behind schedule. |
| Users & Stakeholders | Interfaces |
| Primary Stakeholder is CD SRE, who will be represented in the following way:  Product Owner: David Oliveira/Peter Street | Any needed interfaces will be provided through your Supervising Engineer or Scrum-master. |

**Project Product Description**

|  |  |
| --- | --- |
| Composition | Development Skills Requires |
| The project should deliver a web app with separate front and backend components, which is delivered in Docker containers. The application should tolerant of any downstream failures and issues, presenting the correct information or explanation for it’s absence to the user. | N/A |
| Quality Expectations | Acceptance Methods and Acceptance Responsibilities |
| The framework is expected to follow the CD SRE IaC principles. The system is expected to function as automatically as possible. The system is expected to be documented such that suitably experienced/qualified engineers are able to use and maintain it with reverse engineering it. | The project is complete in one of two scenarios:   1. The technology is found to be unworkable or impractical. 2. The technology module is available for Terraform to use in any non-prod environment. |

|  |  |
| --- | --- |
| Project Approach | The project will be managed in-house in a simple way by the assigned engineers. The project delivery will be done through Scrum. Technology to be guided by your lead engineer and/or CD SRE. |
| Project Management Team Structure | Project Manager: Team (supervised).  Product Owner: David Oliveira Scrum-master: Peter Street/David Oliveira  Supervising Engineer: TBC. |
|  |  |