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| **Learner name:** | Andy Brown |
| **Learner ID:** | 1910332 |
| **Programme start date:** | September 2019 |
| **Project title** | End Point Assessment Quality |
| **Academic Supervisor (if known):** | Maysson Ibrahim |
| **Work-place Supervisor:** | John Pritchard |
| **Work-place Supervisor’s email:** | john@accelerate-people.co.uk |

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| **Project Aims & objective (max 200 words): Provide the overall aim of the project and list specific objectives.**  Statement about the aim  “Accelerate People” run an Independent Assessment service for apprentices completing Digital Apprenticeship Standard ( see <https://www.instituteforapprenticeships.org/apprenticeship-standards/?routes=Digital> ). Apprentices are trained by separate companies and gain work experience through an apprenticeship role. Apprentices are independently assessed by “Accelerate People” to judge their competence. Hence “Accelerate People” is an “End-Point Assessment Organisation“ (EPAO)  Accelerate People require dashboards and analytics including:   1. Systems to measure the performance of multiple-choice exams hosted on Moodle   Benefits/Drawbacks  Moodle allows complex questions types including mathematics/coding. Hosting a system is cheap compared to alternatives ( [www.questionmark.com](http://www.questionmark.com)). It also allows access to all statistics. Drawbacks include setup time and staff training.   1. Implement a dashboard displaying:    1. Grades per standard.    2. Pipeline of End Point Assessment expected in the next three months by       1. Standard.       2. Training provider.    3. Predicted/Processed revenue   The number of assessments completed/predicted can be used to calculate the processed/predicted revenue (each assessment in a set payment).  Benefits/Drawbacks  Excel is simple and cheap. Automated systems save time but require additional costs and training.   1. After a “Professional Discussion” a survey is sent to the apprentices with an “any other comments” field. Sentiment analysis will be performed on this data.   Benefits/Drawbacks  Python may be difficult to automate/operationalise. |
| **Project scope (max 200 words): Provide details of what is within scope and what is not within scope of the project.**  Scope   1. A system to measure the performance of multiple-choice exams hosted on Moodle   This will include the installation of a Moodle system, a sample multiple-choice exam, test rig and the design of statistical measures. The configuration of the final Moodle hosted system and operationalisation of the measures is out of scope.   1. Implement a dashboard   This will include the collection of requirements, analysis of company measures and design of visualisations. It will also include evaluation of additional software which will be evaluated against.   * + Time savings   + Cost   + Organisational fit   + Architectural fit  1. Sentiment analysis   This will include a system devised within the Python programming language and an overall evaluation but will exclude operationalising the system. |
| **Resources required (hardware, software, data): Provide details of any specialist resources required for the project and indicate if they are available via the employer or a third party**.   1. Access to assessment data and apprentice portfolio's 2. Relevant software to generate Dashboards PowerBI/Tableau/Excel 3. Analysis System including Python/Spyder/Anaconda 4. NLP Tools NLTK |
| **Project constraints: Indicate if there are any constraints on the project. For example, any constraints on accessing or sharing data, or requirements for Non-Disclosure Agreement (NDA).**   1. A system to measure the performance of multiple-choice exams hosted on Moodle   Only publicly available data will be required for this system.   1. Implement a dashboard   Company sensitive data which is already accessible will be used for the dashboard. Sample output will be provided for Buckingham University however any sensitive information will be redacted.   1. Sentiment analysis   See above. |

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| **Signature (Learner\*)** | Andy Brown |
| **Signature (Academic Supervisor\*)** | Maysson Ibrahim |
| **Signature (Work-place Supervisor\*)** | John Pritchard |
| \*e-signatures or email confirmations are sufficient | |