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| **Expression of Interest** | | |
| **Project Title** | Smart Receipt Spending Analyser | |
| **Organisation or Supervisor** | Capital One | |
| **Contact person (sponsor)** | Craig Burton | |
| **Contact email** | craig.burton@capitalone.com | |
| **Team Number:** | 29 | |
| **Team Members** | | |
| **Name** | **Email Address** | |
| Vishal Pittala | psyvp2@nottingham.ac.uk | |
| Alfie Rushby | psyar13@nottingham.ac.uk | |
| Alan Stephen | psyas15@nottingham.ac.uk | |
| Oliver Davy-Bowker | efyod1@nottingham.ac.uk | |
| Aidan Cowtan | psyac10@nottingham.ac.uk | |
| Rodion Rasulov | psyrr4@nottingham.ac.uk | |
| Alexander Lockey | psyal6@nottingham.ac.uk | |
| **Description of Team Skills (You must provide clear evidence of to what extent the team has the Highly Desirable and where possible the Desirable Skills detailed on the Original Project form)** | | |
| (750 words Max)  We will build a web app to achieve the system. We chose this initial approach as, due to the limited time, it would be implausible to develop two apps for both IOS and Android. Web apps themselves can be moulded to Progressive Web Apps for more seamless use in phones, and many companies already do this to streamline development, like Spotify.  We chose Svelte as our web framework. Of course, there are more conventional frameworks, like React or Vue, but Svelte has been built as a pre-compiled system that removes slowdown. However, the obvious challenge with Svelte is that its low-adoption results in less resources to learn from.  Svelte works well with node.js as its backend, and a possible framework can be express.js. For the history saving, an implementation of mysql can be used.  The difficult part will be find/training a model to perform OCR on receipts. This will involve first text recognition to find the text on the receipt, and then performing OCR on these sections.  We will use the agile process of Scrum with a Kanban board. The project can be divided into the milestones of:   * Creating a Front-End to display spending habits. * Producing an accurate OCR model for receipts. * Creating a backend that integrates with MySQL to save spending habits. * Some form of authentication. * Categorise spending to non-essential/essential.   We aim to have each facet of the project managed by sub teams, such that each sub team will share their knowledge. This will prevent slowdown if team members get ill or have troubles.  (Max 750 words) | | |
| **Date of Submission of EoI** | | 19th of October 2022 |
| **Date of Pitch** | | 26th of October 2022 |
| **Notification of award** | |  |

**Please make sure to submit a CV for each member of the team together with the EoI using the submission format available on Moodle.**