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| **Lessons Learnt Report**  **SRV (Student Results View)**  Created by Ngo Nguyen – Team\_NAG  Version 1.0 Issued 28 June 2019 |

# Project Description:

SRV is an interface to be used by TAFE SA to summarise a Student’s progress throughout a qualification. It will allow a student to quickly assess his or her progress through a given qualification and do so in a user-friendly manner. SRV is also to assist TAFE SA faculty to quickly assess whether a student is qualified to become the recipient of a parchment and help automate part of the parchment application process, saving the time and effort for those involved.

# Events Causing Deviations:

* Addition of a new member to the team (Gonzalo) during the project lifetime.
* Addition of the new member also meant addition of new talent which was used to expand the scope of the project.
* The team decided to deviate from the original plan and to try to use a different approach with the Electron framework.
* Extracurricular activities impeded the progress of the project during the later months.

# Assessment of Technical Methods & Tools:

Were the technical methods and tools used the most appropriate for the project? Looking back would you make any changes?

* Waterfall approach used at first: unsuccessful due to massive downtime during contract negotiations phase.
* Rapid application development (RAD) methodology used to conduct the software project: much more flexible and more suiting to schedule clashes.
* OneNote as a collaboration space mostly unutilised. Preference was email and meetings in person.
* OneDrive as an online repository mostly unutilised. Preference was Git and GitHub.
* Office 365 document sharing mostly unutilised. Preference was Git (collaborative documentation features mostly unneeded and was done ad-hoc through Git instead).
* Electron as a framework performed well at rapid feature development with ease of use and robust community support.

The beginning of the project was mostly experimentation to test the waters, but the lessons quickly picked up therein served the team well. The team had managed to form a solid foundation for future projects in the timeframe of the project’s lifetime.

# Assessment of Project Management Methodology:

Any recommendations for future enhancement or modification of the project management methodology.

* Lean is an apt approach for smaller scale projects where documentation serves more as a fallback than a driving element of development.
* While there is still a need for quality documentation, any documentation is better than none so there should be less emphasis on quality of documentation until the final revisions.
* Recordings and other forms of evidence to show interactions etc. are powerful means of documentation and should not be quickly disregarded.

**Measurements:**

Measurements of how much effort was used to create the various products.

The measures are expressed on a scale from 1 to 10, where one means ‘Non existent’ and ten means ‘Complete Devotion’.

The documentation may have been more of a burden than necessary due to the initial approach (Waterfall) to project scheduling which was found to be inefficient at best for a project like SRV. When the approach was revised, documentation became less of an issue but the change would not be able to make up for weeks lost.

* Deliverables include: Problem Definition, Project Charter, SRS, Project Plan, Testing Plan, Risk Log, Support Documentation, Lessons Learnt.
* Measure of effort: 9

The requested product was not as much of a technological feat rather than an intuitive UI that had to work with pre-existing infrastructure. The initial prototype was done using UWP but the transition to Electron had varying challenges, including learning the framework and implementation strategies for functionality.

* Deliverables include: Prototype, SRV (Incomplete).
* Measure of effort: 5

Client interactions were conducted in an appropriately professional manner. As the client was technically minded, he was very agreeable to most proposals given and gave ample insight as to what was to be expected from the completed product.

* Deliverables include: evidence of client interactions, signed Problem Definition, signed Project Charter.
* Measure of effort: 3

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| 001 | Technical | Badly | Ngo Nguyen | Collaborative software given for staff to use was not intuitive or practical to use at times. | Reflect on industry standards and promote more practical tools (Git over OneDrive, etc.) | 28/06/2019 |  |
| 002 | Quality | Badly | Ngo Nguyen | Early prototyping using UWP was done inefficiently to poor result. | Practice the use of more flexible means of prototyping, eg. Invision or MS Paint. | 28/06/2019 |  |
| 003 | Event | Well | Ngo Nguyen | New additional member to the team (Gonzalo). | Worked on effectively integrating new member into team. | 28/06/2019 |  |
| 004 | Event | Well | Ngo Nguyen | Expansion of scope negotiated with client. New functionality needed for SRV. | Negotiations went well, scope was not blown out of proportion and targets could still be met with addition of new member. | 28/06/2019 |  |
| 005 | Management | Badly | Ngo Nguyen | Documentation and approval were lagging behind project schedule estimates. | Adopting a more flexible approach to software development helped to make up for some deficiencies in time. | 28/06/2019 |  |
| 006 | Issue | Badly | Ngo Nguyen | Personal commitments shortened the amount of time team members could work on SRV. | Ad-hoc work became the norm, group communications became mostly digital. Needed to factor in the possibility that things could get worse. | 28/06/2019 |  |
| 007 | Technical | Well | Ngo Nguyen | Implementation of Electron meant learning a new framework. | Do a feasibility study, seek advice. Worked out well in the end (but won’t always be the case). | 28/06/2019 |  |
| 008 | Management | Badly | Ngo Nguyen | Feature development exceeded scope set by agreements. | Electron was more practical than first thought, functionality soon expanded to a full-blown Admin view. Need to take time constraints more heavily into consideration. | 28/06/2019 |  |
| 009 | Event | Badly | Ngo Nguyen | Conclusion of project happened with appropriate project documentation still lacking. | Deadlines were broken without enough heed. More attention needs to be paid to documentation. | 28/06/2019 |  |
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