# COMP3000 Computing Project

## 2021/2022

### Project Title

Language learning app using an AI implementation of the Leitner system.

### Links

Source code:<https://github.com/Zedster82/Comp-3000>

### Project Vision

My application will be for users that have access to a phone, being android or iOS, or web users that will have access to a browser.

It will aim to solve the difficulties of learning a new language.

The name of my project will be Leitner Language Learning.

It is an application that focuses on language learning via the use of the Leitner System with flash cards. This will help users be able to learn a language quicker as their learning will be focused and personal, therefore more efficient.

### Risk Plan

*Identify here potential risks to your project and outline how you will address those risks. For further information view the risk management resources provided in support materials section.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Risk* | *Risk Reduction Techniques* | *Likelihood* | *Impact* | *Risk Exposure* |
| Personnel shortfalls | Staff with top talent; job matching; teambuilding; training and career development; early scheduling of key personnel |  |  |  |
| Unrealistic time and cost estimates | Multiple estimation techniques; design to cost; incremental development; recording and analysis of past projects; standardization of methods |  |  |  |
| Developing the wrong software functions | Improved software evaluation; formal specification methods; user surveys; prototyping; early user manuals; software functions are going to be chosen by me therefore are not a large risk. |  |  |  |
| Late changes to requirements | Incremental development, define key requirements early, formal process for adding another requirement. |  |  |  |

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| Developing the wrong user interface | Prototyping; task analysis; user involvement; Gathering feedback from peers and supervisor on design choices. |
| Late changes to requirements | Incremental development, define key requirements early, formal process for adding another requirement. |
| Performance problems | Conduct optimizing, debug parts of the program to identify slow areas. |
| Language data is inaccurate. | Gather data from reputable sources, keep sentences simple. |

### Proposed Gantt chart

*Identify here your proposed work packages and how they will fit together over the time you have available. This is a high-level estimate.*

### Keywords

AI, Leitner System, Language, Learning, React Native, JavaScript