# Status Report

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| **Item** | **Current Status of Item** | **To do** |
| **Database Design** | The database design for the current prototype is complete. |  |
| **Prototype Application** | A prototype has been built including:   1. User interface 2. SQLite database that stores 3 Māori question/sentences. 3. Back‑end coding to enable the prototype’s functionality of enabling users to practice the use of ehara/kahore by unscrambling sentences. 4. M4a audio has been added for each question and sentence. |  |
| **Testing** | Black box testing has been done for each iteration. |  |
| **Usability testing** | Usability of the application has been tested by client, supervisor and project team. | Test the application with end‑users (students of Te Reo) to ascertain if there are other changes that can be made to improve usability. There may be insights that a learner of Te Reo may be able to provide that are not obvious to other testing groups. |
| **Refinement of the UI** | The prototype UI has a place‑holder design to provide visual interest, but is not intended to be final. | Improve and test the user interface, so that the application has its own look and feel. |
| **Māori icons** | The icons currently used on the prototype are generic, open‑source icons. | Unique and licenced icons should be found to give the application a distinct style. |
| **Stylised message boxes** | The prototype uses the Android studio default layout for pop‑up boxes combined with open‑source images. | The message boxes should be formatted to give them a distinct style. |
| **Customisation of launch icon** | The prototype uses the Android studio default launch icon. | A customised image should be added the launch icon. |
| **Database images and audio files** | Audio and images are hard‑coded in the prototype. | Add audio and images to the database and play/display them programmatically. |
| **Category table** | The Categories is hard‑coded in prototype. | A Category table needs to be added and associated with the Sentences table in the database and application. |
| **Test database with large datasets** | The database has only been used for three sentences (without images and audio files) | Investigate if SQLite will be able to handle larger datasets with audio and images files. Consider using a different RDBMS if necessary. |
| **Fix Drag and Drop Movement** | Currently, if a user taps a word in the answer panel it will send that word to the far right of the line, but the user cannot chose where the word is placed. | Modify the drag and drop functionality so that users are able to reposition words in the answer panel by dragging the individual words. |
| **Check content** | Content was provided by two Māori language experts at separate times. | Check that the Māori language used in the application is consistent with language the client wants users to learn. |
| **Instructions** | There are general instructions in the Help button on the Category page instructing people to drag and drop words. | Instructions should be also be accessible from the Sentence Structure screen and/or consider adding an animated run through of how to use the app when it is first loaded. |
| **Device compatibility** | The current prototype been developed and tested for Android 6.0.1 on a Nexus 5 phone. | Develop and test the application for the phones used by the target user‑group (students of Te Wānanga Māori). |

# Possible added features/functionality

* Add levels of difficulty
* Include audio for individual words
* Keep statistics for user
* Colours for types of words
* Migrate the application to VR tech.
* Provide an interface for the tutor, so the tutor can add their own sentences.