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- 1. **Problem Statement:** Fully-Modular Language-Learning Study Aid: A student who needs a cost effective program to help study a forgein language or an instructor that needs a program that they could use for the class without paying for all the licensing fees.
- 2. **Intended Users:** Students trying to study a foreign language, Teachers/Groups trying to teach a foreign language
- 3. **User's Problems:** Most, if not all, useful study tools are paid programs. The most common free programs have their own drawbacks
- 4. **Solutions benefits:** Either a student can gradually import resources as they're encountered while taking lessons on a foreign language, building study lessons as necessary, or instructors can create full lesson plans without any programming or technical knowledge required.
- 5. General Flow: Pre-made lesson plans can be distributed and downloaded as common .ZIP folders, and simply extracted to the appropriate locations that the main program can access. Over time, as more user-made lesson packs are created and distributed, the program would be plug-and-play for multiple languages and provide study lessons of various difficulties.
- 6. **General Solution:** The completed program would be a stand-alone Windows application, although depending on the version of tools used to create the program, it could potentially be exported as Mac, iPhone, or Android versions as well.
- 7. **General Software:** A 2D game engine such as GameMaker Studio, for ease of displaying images and optional audio clips. Some languages use non-standard characters, and a console-driven text-based program would not be appropriate for these languages.
- 8. **General Hardware:** a PC and potentially a Mac or tablet.
- 9. Similar Solutions: Quizlet cuts the study session short after only asking each question a single time, making long study sessions difficult. Duolingo does not always have native speakers reading the questions, teaching incorrect pronunciation, and native Japanese speakers have found that Duolingo teaches incorrect grammar.