**Use Case Diagram:**

A diagram of a system

Description automatically generated

**USE CASE NARRATIVES**

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| **Use Case Name:** Change PGF Grammar File | **ID:**1 | | **Importance:** High |
| **Primary Actor:** (Which actor are we modelling? | | | |
| **Brief Description:** The actor can change the PGF grammar file they would like to use for authoring their translation | | | |
| **Preconditions:**   1. The user needs to have opened the GFM minibar application on their local device | | | |
| **Postconditions:**   1. A grammar file must be selected | | | |
| **Related Use Cases:**   1. Extend: **Upload PGF Grammar File** | | | |
| **Normal Flow of Events** | | | |
| **Actor Action** | | **System Response** | |
| 1. The user opens the application on their device | |  | |
| 1. The user navigates to the PGF grammar file section and uses the drop-down menu to choose a grammar file | | 1. Provides a list of available PGF grammar file options | |
| 1. Clicks on a grammar file to select it | | 1. Grammar file loaded as the PGF file to be used for authoring | |
| **Alternate/Exceptional Flow of Events** | | | |
| **Actor Action** | | **System Response** | |
| 1. (a) The user chooses to upload their own PGF grammar file | | 1. Prompt the user to choose a file from their local device | |
| 1. Chooses and uploads the desired grammar file | | 1. Grammar file loaded onto the application to be used for authoring | |

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| **Use Case Name:** Modify translation settings | **ID:** 2 | | **Importance:** High |
| **Primary Actor:** | | | |
| **Brief Description:** The user is able to modify the app’s translation settings. This includes being able to choose an input and output language and selecting a translation category. | | | |
| **Preconditions:** None | | | |
| **Postconditions:**   1. The user has chosen an input and output language for their translation 2. The user has selected a category for translation. | | | |
| **Related Use Cases: None** | | | |
| **Normal Flow of Events** | | | |
| **Flow of Events** | | **System Response** | |
| 1. The user navigates to the input language section and selects their input language | | 1. Input language is updated | |
| 1. The user navigates to the output language section and selects their output language | | 1. Output language is updated | |
| 1. The user selects the category of input they will be providing the application | | 1. Input category is updated | |
| **Alternate/Exceptional Flow of Events** | | | |
| **Flow of Events** | | **System Response** | |
| 1. The user decides to not change language settings | | 1. The default input and output language and category are used to author the translation | |

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| **Use Case Name:** Input Text to be translated | **ID:**3 | | **Importance:** High |
| **Primary Actor:** User | | | |
| **Brief Description:** The user is able to input text they would like to be translated. This can be in the form of a single sentence or multiple sentences. | | | |
| **Preconditions:** The user needs to have selected or upload a grammar file | | | |
| **Postconditions:** User enters what they would like to have translated | | | |
| **Related Use Cases:**   1. **Include –** Verify Input 2. **Extend –** Select Random | | | |
| **Normal Flow of Events** | | | |
| **Actor Action** | | **System Response** | |
| 1. User navigates to the text input area and inputs text they would like to translate. | | 1. Application receives and processes inputted text [Include: verify input] and verifies whether the text is valid in terms of formation and restrictions or not. | |
| 1. User gives indication to translate inputted text | | 1. Application commences translation | |
| **Alternate/Exceptional Flow of Events** | | | |
| **Actor Action** | | **System Response** | |
| 1. User selects random to generate random text | | 1. Generates random text to be used as input for the translation. | |

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| **Use Case Name:** Delete text/words | **ID:3** | | **Importance:** High |
| **Primary Actor:** | | | |
| **Brief Description:** The user can delete words or phrases from specific sentences that they have inputted. Delete is intuitive and linked to sentences. | | | |
| **Preconditions:** None | | | |
| **Postconditions:** Words that the user would like to be removed are easily deleted from the inputted text. | | | |
| **Related Use Cases:** None | | | |
| **Normal Flow of Events** | | | |
| **Actor Action** | | **System Response** | |
| 1. The user navigates to the sentence they would like to modify. | |  | |
| 1. The user presses delete as desired and modifies the sentence | | 1. Removes the deleted words and modifies the translated and displayed output | |
| **Alternate/Exceptional Flow of Events** | | | |
| **Actor action** | | **System Response** | |
| **None** | | **None** | |

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| **Use Case Name:** View translation | **ID:** 4 | | **Importance:** High |
| **Primary Actor:** | | | |
| **Brief Description:** The user is able to view the translated output of their inputted text in all languages available or in their chosen output language | | | |
| **Preconditions:**   1. The user needs to have inputted text to be translated 2. The user needs to indicate to the system to translate text | | | |
| **Postconditions:**   1. The translated text is displayed to the user 2. The user can copy translated text | | | |
| **Related Use Cases:**   1. Collapse panel 2. Expand Panel | | | |
| **Normal Flow of Events** | | | |
| **Actor Action** | | **System Response** | |
| 1. The user navigates to the translated output | | 1. Display panel for translated output in chosen output languages | |
| 1. Expands panel to view translations | | 1. Displays all translated text | |
| 1. [Extend] Collapse panel to close view of translations | | 1. View is closed | |
| **Alternate/Exceptional Flow of Events** | | | |
| **Flow of Events** | | **System Response** | |
| 1. User is unable to view any translation | | 1. Error message informing user of failed translation | |