

Object Oriented Programming

Final project

Nowadays, Mexico has a wide variety of official languages different from Spanish. Some of them are in danger of disappearing due to diverse factors such as the migration of its native speakers to the cities. For this reason is important to create tools to preserve the evidences of these languages, before losing such a big cultural heritage.

Application

This system will let the users to manage texts and recordings in official languages different from the Spanish, to be further translated and shared with a big audience.

For each resource (the system only handles texts and recordings) store the following information:

- Textual content (if it is a recording, it must be transcribed)
- Language
- Current status (finding, translating, to amend, free)
- Region of origin
- Responsible of the finding

If it is a recording, store the following information:

- Duration (minutes)
- Path of the file with the recording

If it is textual content, store the following information:

- Number of pages
- Number of words

The system will be used by different types of users, each with a specific task inside the app

- Managers: Responsible for adding, deleting, and updating users
- Information manager: Responsible for adding, deleting and updating resources in the system.
- Translators: Bilingual people responsible for translating the resources to Spanish.
- Consultants: Able to analyze the available resources.

At first, every resource is in state of “finding”. Once the translation process begins, it goes to “translating” until it is freed to be able to consult it. If there are any failures detected in the resource during the translation phase, an amend request is created and the resource state goes to “to amend”. When the responsible of resource fixes the issues, the resource goes back to “translating”.

Functionality

The users of the system will be able to perform the following activities through a GUI

1. User authentication.
2. User management. CRUD functionality to manage users
3. Resource management.
 - a. Information managers will be able to add, update or delete a resource
 - b. Translators will be able to translate any resource with the “review” state.
 - c. Consultants will be able to consult any freed resource.
4. Save the state of the system in a file. For this purpose, you will have a class implementing the interface IPersist now displayed:

<i>IPersist</i>
+ persist(Resource[] resources): void + retrieve(): Resource[]

To deliver

- Class diagram of the application
- Java written application
 - Java FX GUI

Delivery date

May 3rd