

# Application Technical Scope

Unbabel Challenge Solution - Eurico Pinto

## Hello Unbabel

Text to translate:

Select one language:

Arabic

Submit

### Actual Translation

From Language	Original text	to Language	Translated text	Status
en	Hello, World!	ar	مرحباً بالعالم	completed

### History of Translations

From Language	Original text	to Language	Translated text	Status
en	Hello, World!	ar	مرحباً بالعالم	completed

# Junior Java Developer Challenge

This Java Challenge invites the candidate to create a web application that offers translation services using Unbabel Api. This project uses Java 8, Spring Boot, H2 database and Thymeleaf template engine. To run the actual project just type:

```
$ mvn spring-boot:run
```

and check this localhost link <http://localhost:8080>

Besides normal run, it is possible to run tests on the actual project using:

```
$ mvn test
```

This web application gets the user input, as the original text to be translated to one of the languages that Unbabel Api offers. After that, the application sends a request to the server with the text, the language of that text (predefined to be english) and the language that the user chose for that text to be translated.

The server would then wait till the status is complete and then get the final translated text.

A class called Message stores all these values: Original text, Source language, Destination language, Status and Translated text. All messages are saved to Message Repository so that all translations already made can be seen.

An IndexController class is also used in this application to control POST and GET request to the API server, and to allocate some of the Message fields correctly.

In the end, the user should be able to translate any type of text in English to a variety of languages, keeping all the history of translations already made.

Unbabel Challenge Solution - Eurico Pinto

Hello Unbabel

Text to translate:

Select one language:

Chinese (Simplified)

Submit

Actual Translation

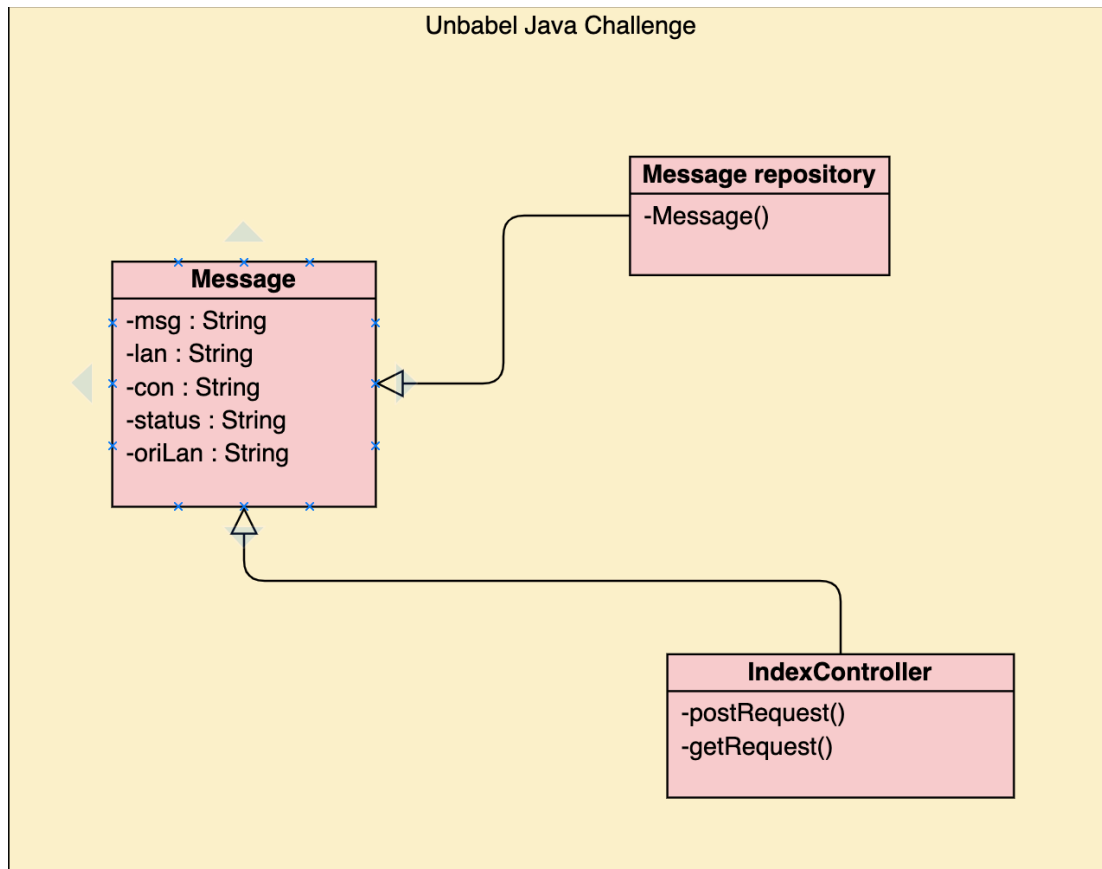
From Language	Original text	to Language	Translated text	Status
en	Hello, World!	zh-CN	你好, 世界!	completed

History of Translations

From Language	Original text	to Language	Translated text	Status
en	Hello, World!	ar	مرحبا بالعالم	completed
en	Hello, World!	zh-CN	你好, 世界!	completed

# Class diagram

A simple view of how classes were organized for this particular project



## Future Work

There is still a lot to improve in this web application:

1. Instead of just offering translations from English, the user should be able to select the source language.
2. The user should also be able to see the actual status of a request to know whether they are new, translating or completed.
3. Finally, a better GUI could be implemented to offer a better experience to the user.