# Third change request

The client requires a module that perceives the phonetics from a person and translates it into text.

## Configuration Identification

Using the concept of configuration identification, we identify the following concepts applicable to the change request:

### Code

Functionalities to be implemented:

1. **Phonetic Perception:** The module should be able to perceive and interpret the phonetics from a person’s speech.
2. **Speech-to- text translation:** the perceived phonetics should be translated into text.

This new functionality will enhance the system’s ability to understand and transcribe spoken language, providing a more accessible and user-friendly experience.

### Design

Implementation of this feature may depend on the existing system architecture and may require additional libraries or tools for speech recognition and speech-to-text.

### Documentation

All modules to be developed must be documents complying with the quality characteristics as required by ISO 25000.

## Risk assessment

### Budget

The additional budget for this change request is:

$220,000.00

Considering only the new team members.

### Human Resource

We need to hire new team members:

2 software engineers:

1 Sound engineer:

### Time

The timeline for this change request like this can range from a few months for a simple implementation to over a year for more accurate and precise recognition. We are considering eight months.

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| **Strength** | **Weaknesses** |
| User Interaction: A module that translates phonetics into text can significantly improve user interaction and experience.  Versatility: Such a module can be useful in various scenarios, such as transcription services, voice assistants, etc. | Technical Complexity: Developing a module that accurately perceives phonetics and translates it into text can be technically challenging.  Resource Intensive: It may require significant computational resources, which could impact the performance of the overall system. |
| **Opportunities** | **Threats** |
| Market Demand: With the increasing use of voice technology, there is a growing market demand for such modules.  Innovation: This could lead to the development of new features or products based on voice recognition technology. | Competition: There are already established players in the market offering similar functionalities.  Accuracy: Ensuring high accuracy in different languages and accents can be challenging. |