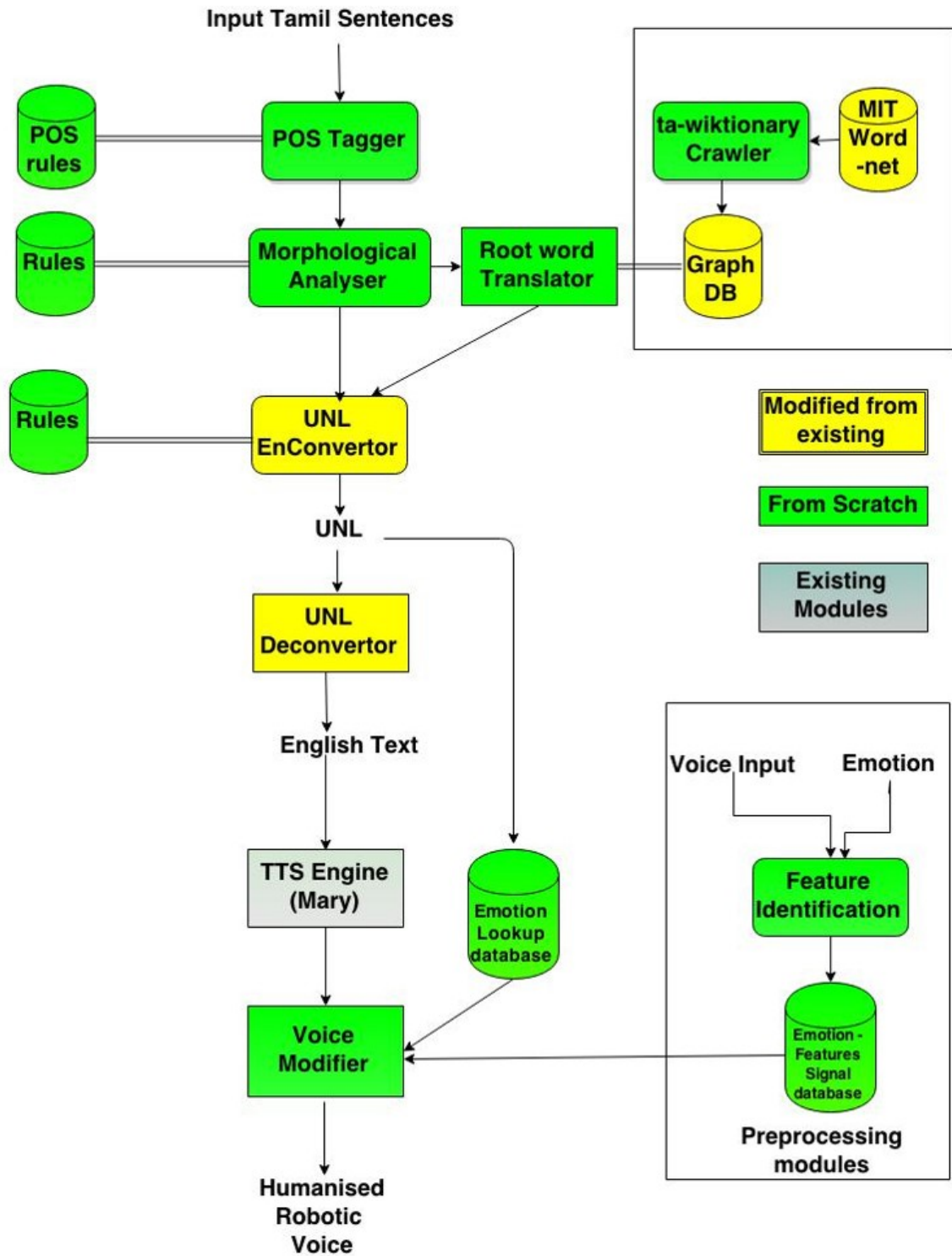


# BLOCK DIAGRAM : TAMIL TEXT TO ENGLISH EMOTIONAL SPEECH CONVERSION USING UNL



## Completion and constraints

All modules have been completed. Translation accuracy of % has been achieved. The system is capable of adding Anger, Happy and Sad emotions to the robotic TTS voice. The system is limited by the words present in the wordnet used and inflection-less words in Tamil language to a certain degree.

## Team member wise code split-up

### → Siva MR

*(source code for Analyser and POS Tagger in java)*

- ◆ analyser.java
- ◆ echam.java
- ◆ nedil.java
- ◆ noun.java
- ◆ verb.java
- ◆ function transliterator

### → Jayavasanth R

*(source code for UNL EnConverter, UNL DeConverter, Wordnet Constructor, Dictionary crawler and UNL Format in java)*

- ◆ Deconverter.java
- ◆ EnConverter.java
- ◆ UNLGraphNode.java
- ◆ WordnetCommunicator.java
- ◆ wiktorycrawler.php

### → Archana R

*(source code for voice Modifier in Matlab and MaryTTS integration, MatLab integration, Emotion Recognition from UNL, Emotion features signal database construction)*

- ◆ Testing.java
- ◆ VoiceGenerator.java
- ◆ class EmotionIdentifier
- ◆ AddEmotion.mat