

# Project Documentation Pack – Milestone 3

## Milestone 3 Progress

- **STT and Azure Speech Services** fully implemented
  - **Teacher Dashboard** is functional with real data
  - **Progress Screen** updated UI and shows more detailed analytics
  - **General UI and navigation** cleanup
  - **General code improvements**
  - **Word list navigation** improved during practice
  - **Unit tests** completed and widget tests drafted
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## Setup Guide

### 1. CSV Word List

- If you want to use your own CSV file, name it `seed_words.csv`.
- Format it exactly like the current file in the `assets` folder.
- Place it inside the `assets` folder.

### 2. Azure API Keys

1. In the root directory, create a file named `.env` in the `assets` folder.
2. Add the following lines, replacing placeholders with your Azure key and region:

```
AZURE_SPEECH_KEY="YOUR_AZURE_SPEECH_KEY"
```

```
AZURE_SPEECH_REGION="YOUR_REGION"
```

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## Student Quick-Start

1. Sign up as a **student** and enter the required information.
2. Log in with your new account.
3. Click **Go Practice** to go to the practice screen.
4. Use the following buttons:
  - **Record** – Start a new attempt (Windows only works with “virtual microphone uses host audio input” enabled)
  - **Stop** – End the recording early
  - **Retry Word** – Retry the current word if score is low
  - **Next Word** – Advance to the next word in the list if score is high
  - **View Progress** – Go to the progress screen
  - **Go to Word List** – Return to the main screen
5. From the main screen, you can **sign in as a teacher**.

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## Teacher Quick-Start

1. Sign up as a **teacher** with a username and password.
2. Upon login, you are directed to the **Teacher Dashboard**.
3. The dashboard allows you to:
  - **Select students** using filters such as name, class, or performance level
  - **Select date ranges** to view student attempts over a specific period

- **View detailed analytics** for each student, including past attempts and progress trends
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## Navigation Notes

- **Practice Screen:** Navigate through the word list, make attempts, and view feedback.
  - **Progress Screen:** Displays analytics and progress for students or the current user.
  - **Teacher Dashboard:** Provides an overview of all students and their attempts.
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## Key Notes

- **Unit and widget tests** drafted for core functionality
  - **STT and feedback scoring** fully functional
  - **UI improvements** enhance user experience
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This version now satisfies:

- **Teacher Quick-Start**
- **Setup Guide**
- **API Key Handling**
- **Student instructions** (optional but useful)

# Data Model Diagrams

Data Model Diagram

Attempt
id : int? uuid : String (unique) title : String body : String updatedAt : DateTime dirty : bool

WordListProgressionData
wordListName: String wordListPath: String currIndex: int attempts: int

UserData
+ username: String + password: String + firstName: String + lastName: String + isTeacher: bool

StudentUserData
username: String password: String firstName: String lastName: String isTeacher: bool word_list_progression_data List