

# **QURAN SENSORY READY**

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- **Objectives**
- **Technologies & Tools**
- **System Design**
- **Features**
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# INTRODUCTION

**SensoryREADY is a tool that helps teachers, therapists, and parents engage children aged 3 to 12 through sensory experiences using lights, visuals, and sounds. Used daily by over 10,000 students in 650+ schools, centres, and homes, it creates calming or stimulating environments for learning and therapy. One of its key features is the Quran app, which helps children and adults recite and memorize the Quran by choosing specific Surahs, Ayahs, or words, with visual and audio support and easy control of reciters and settings.**

# OBJECTIVES

- **Create an interactive Quran learning and listening experience.**
- **Enable precise control over verse playback.**
- **Introduce AI-assisted voice correction.**
- **Allow Quran streaming to external screens (TVs) using a controller-receiver model.**

# TECHNOLOGIES & TOOLS



**Android Studio**



**Java**



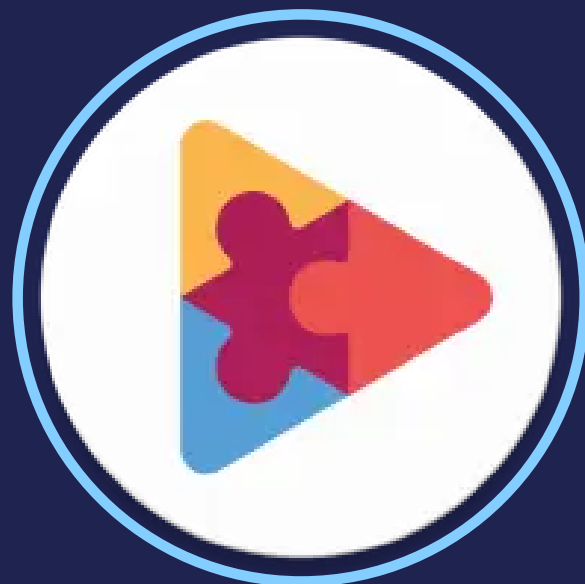
**Retrofit**



**Room Database**



**GitHub**



**ExoPlayer**



**Quran API**

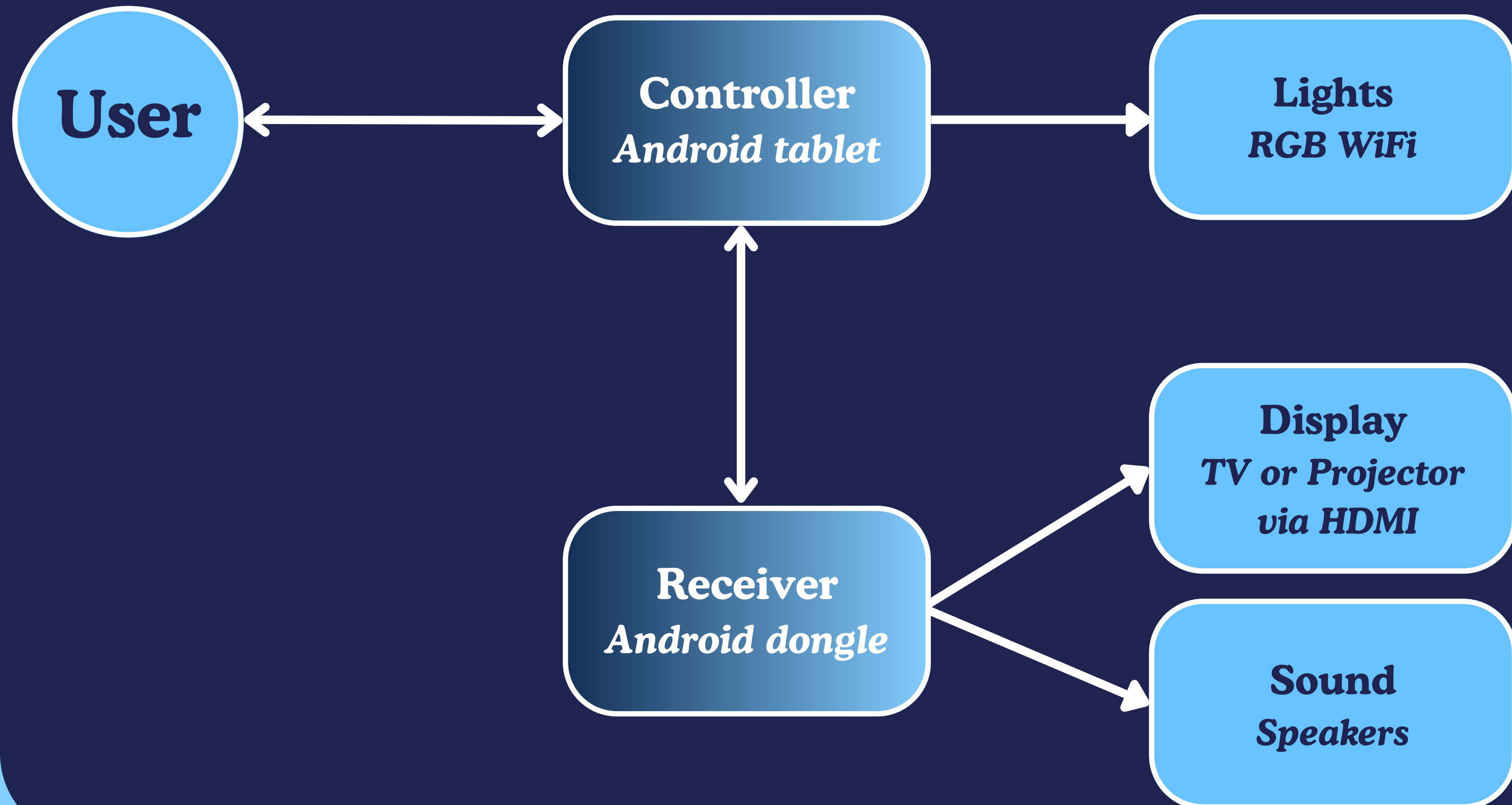


**Speech Recognizer**



**POSTMAN**

# SYSTEM DESIGN



# FEATURES

## Level 1 Features:

### Madani Script:

Accurate, standardized compliant script.

### Audio playback:

Allows audio playback for Surahs or Ayahs.

### Multiple recitations:

- Al-Shuraym
- Al-Minshawi
- Al-` Afasy

### Customisable repeat:

Users can repeat an Ayah or multiple Ayahs as needed, with customizable repetition settings.

# FEATURES

## Level 2 Features:

### Transliteration:

Offers transliterations for easier understanding.

### Translation :

Provides translations in various languages.

### Tafseer Integration:

- Show Tafseer of Surah or Ayah in available options.
- Three Tafseer sources for better interpretation and understanding.

# FEATURES

## Level 3 Features:

### AI-voice corrections:

Users can record their recitations, and the app will identify mistakes and provide corrections.

### App language:

Supports both Arabic and English languages.

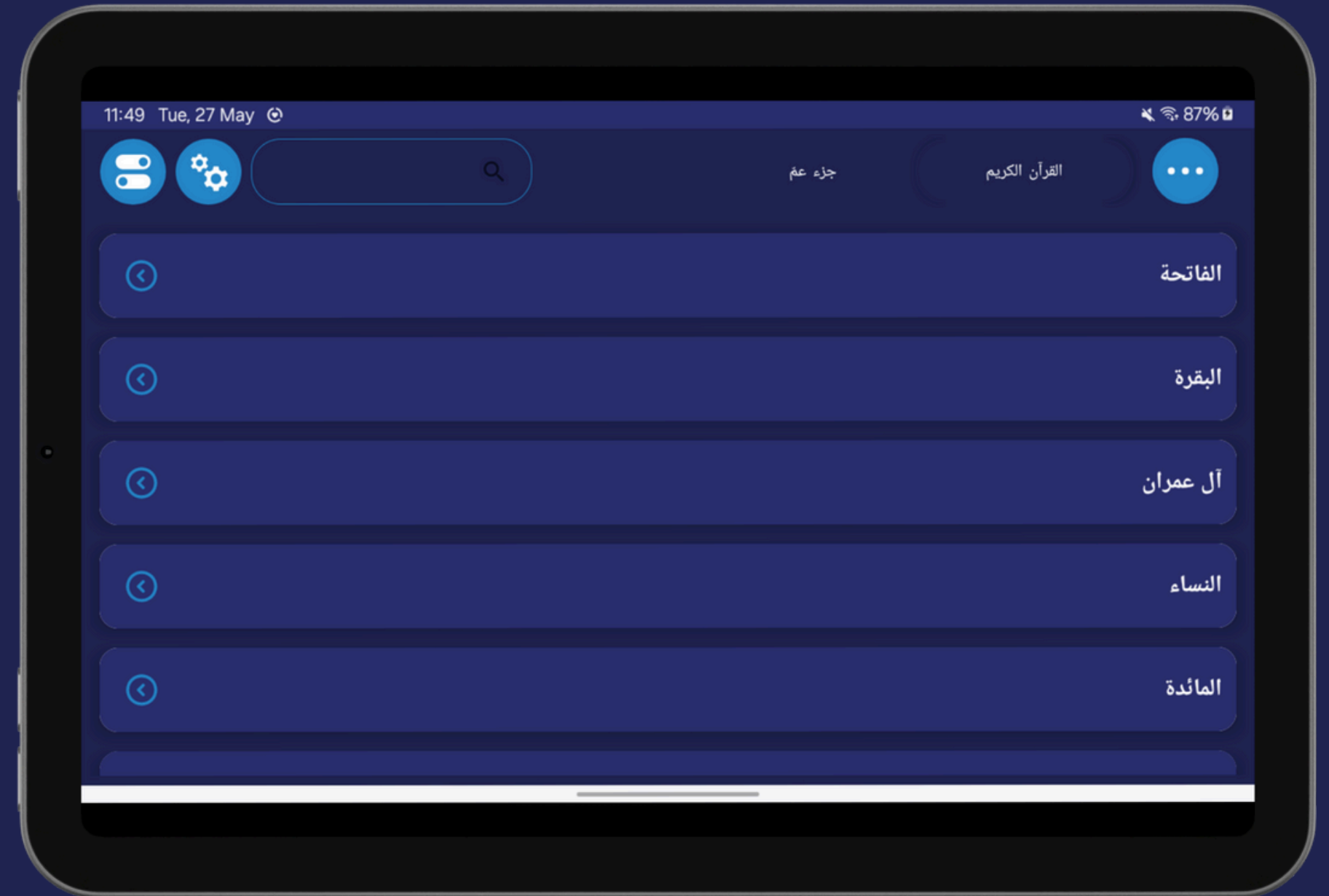
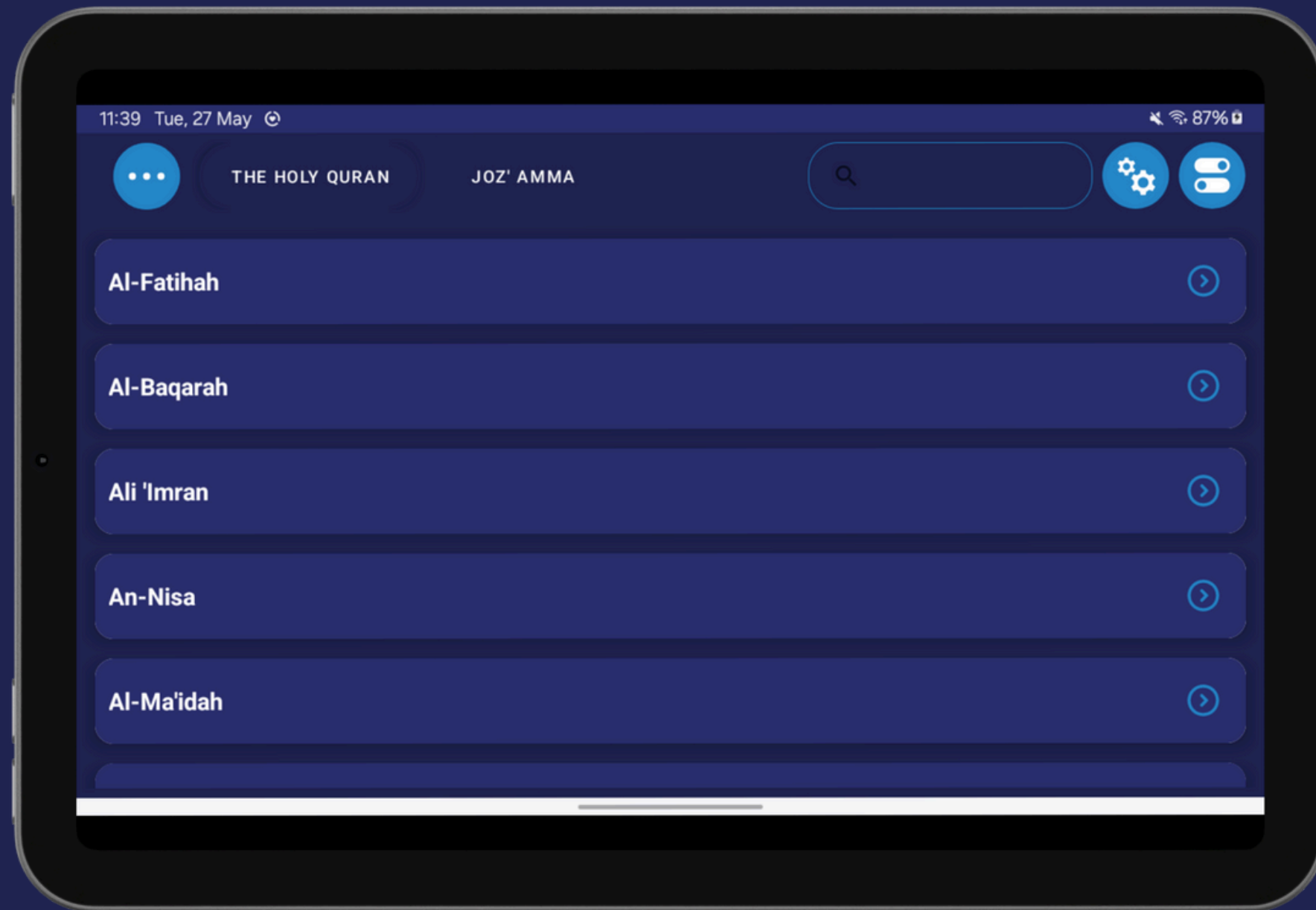
### Dark/Light theme:

Users can toggle between dark and light themes.

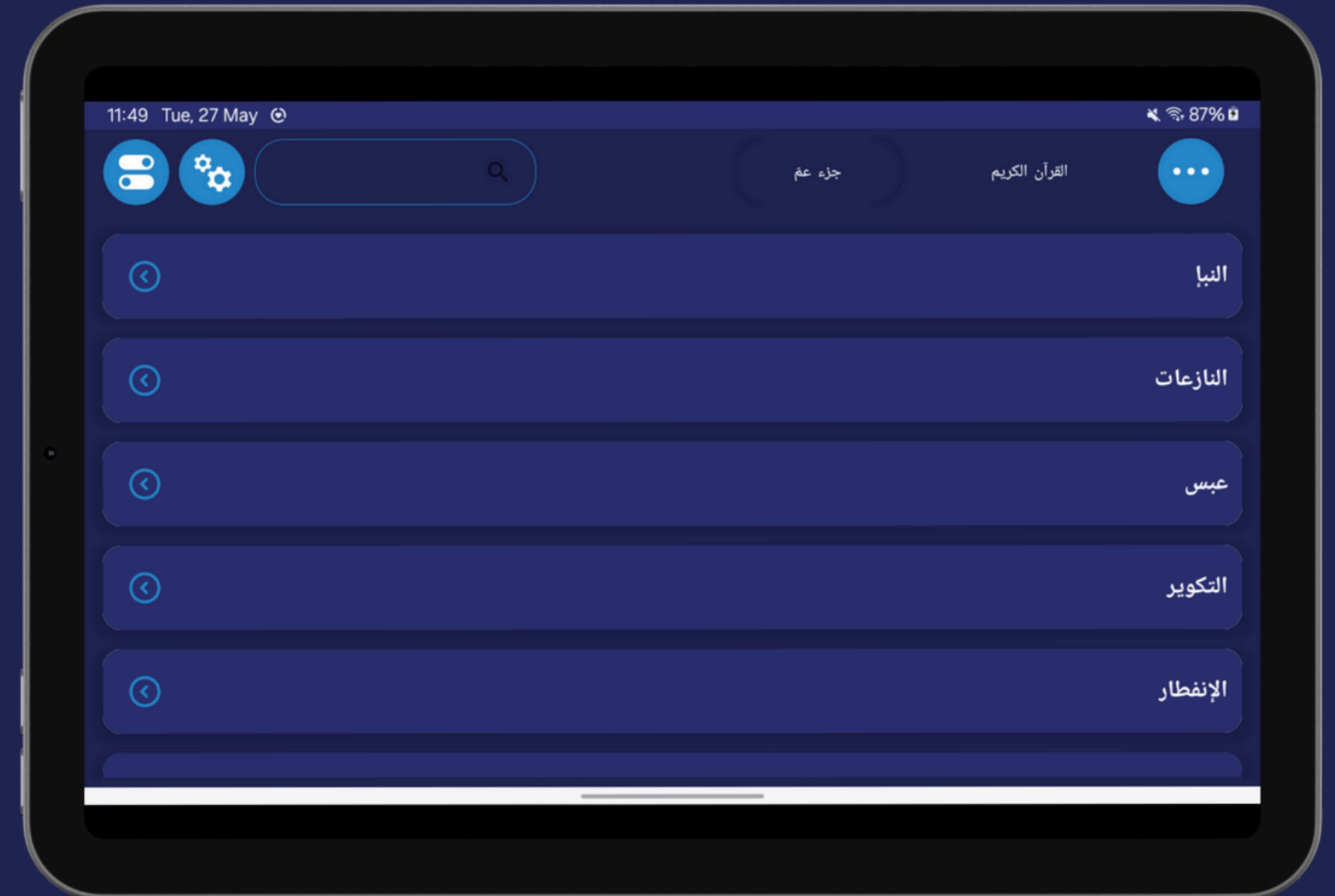
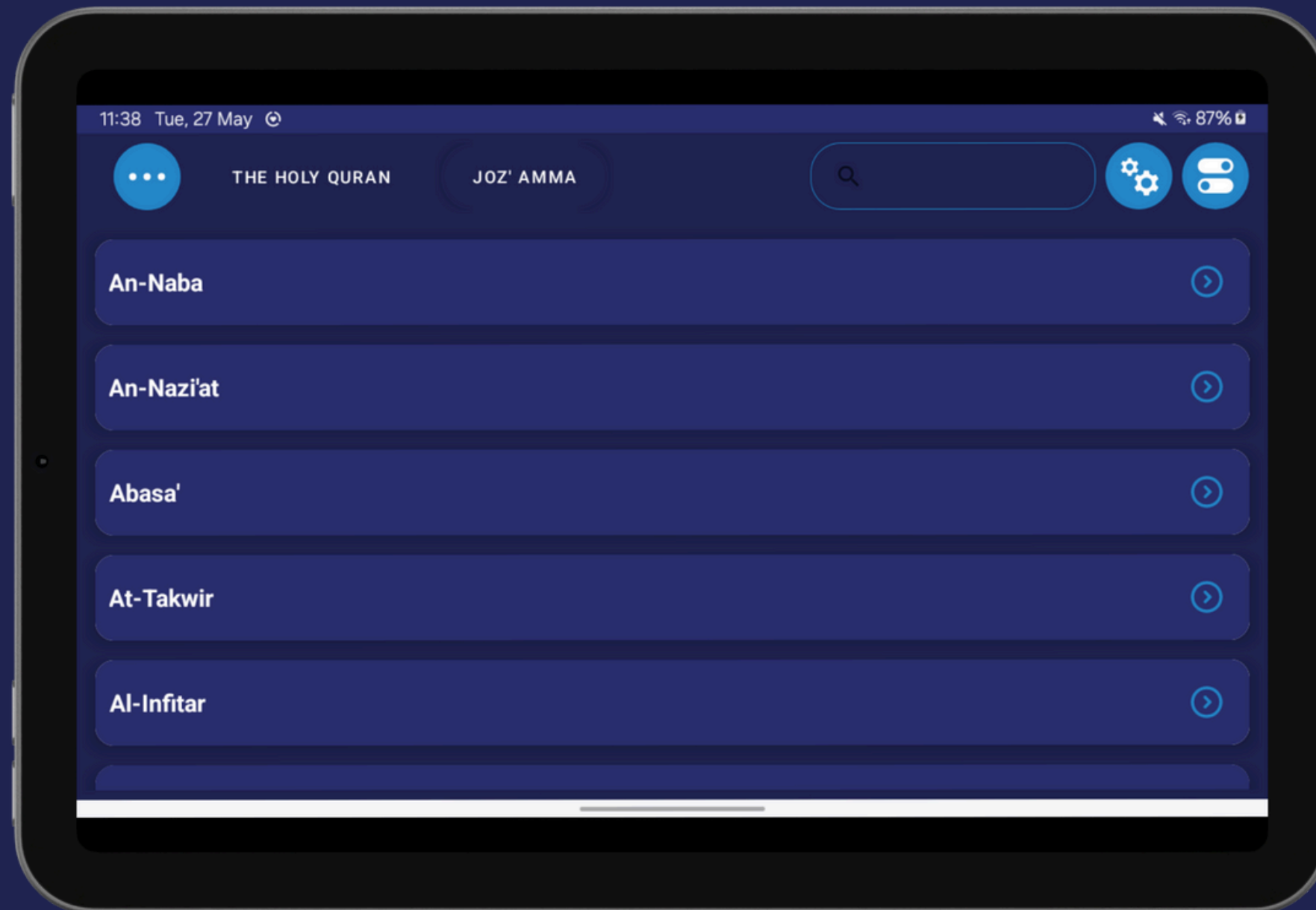
### App mode:

Offers two distinct modes Learning and Listening Mode.

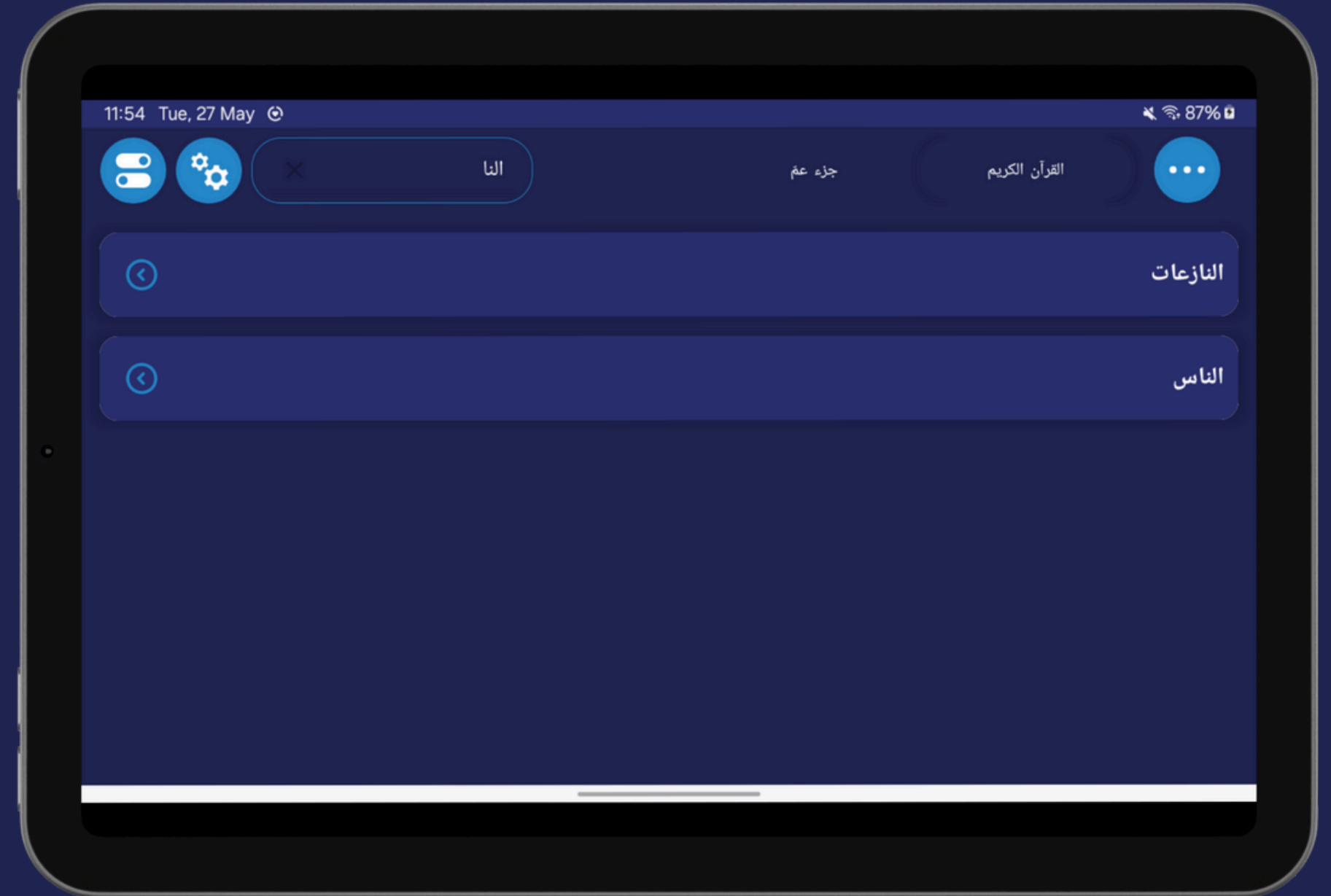
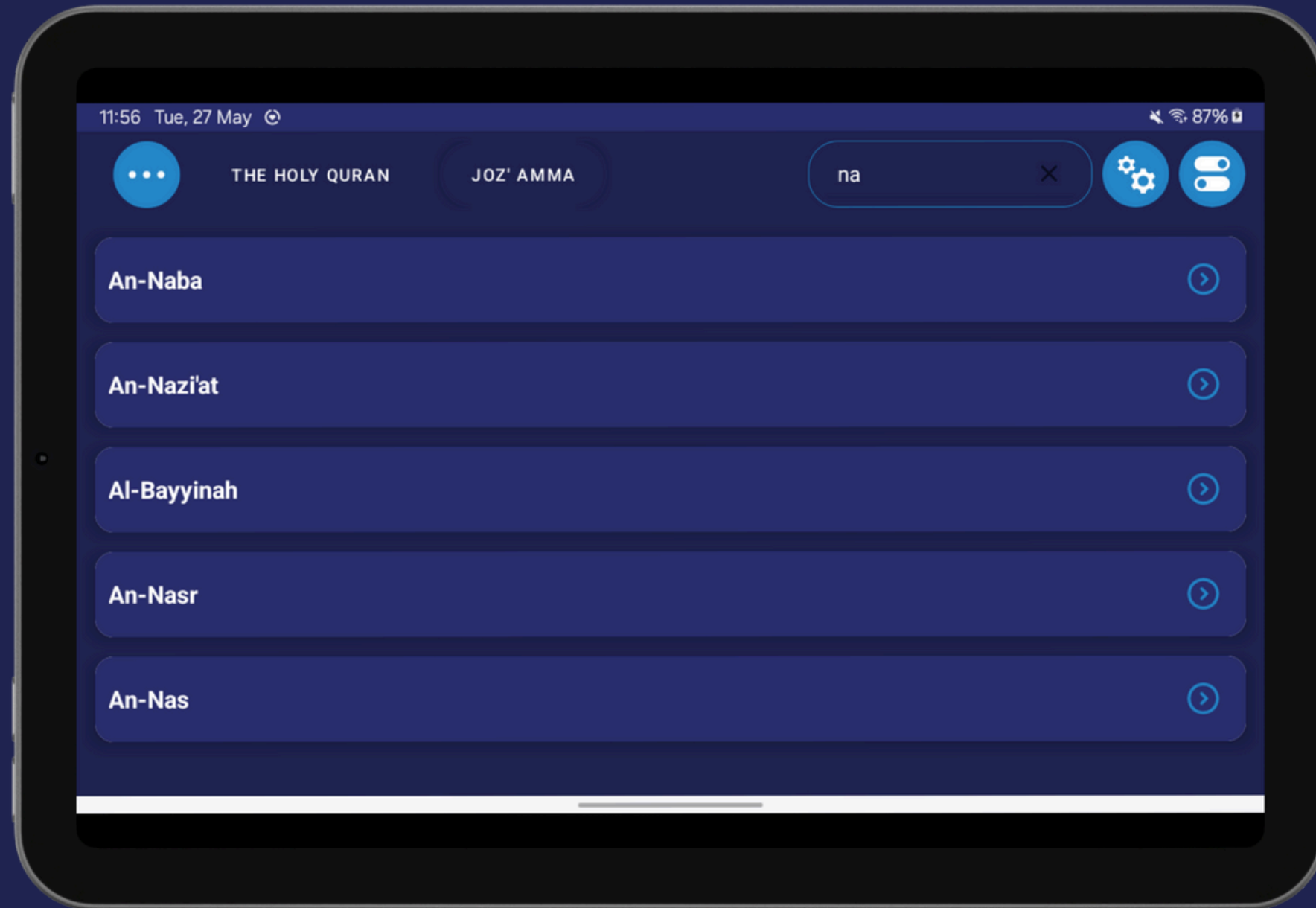
# Controller Side UI



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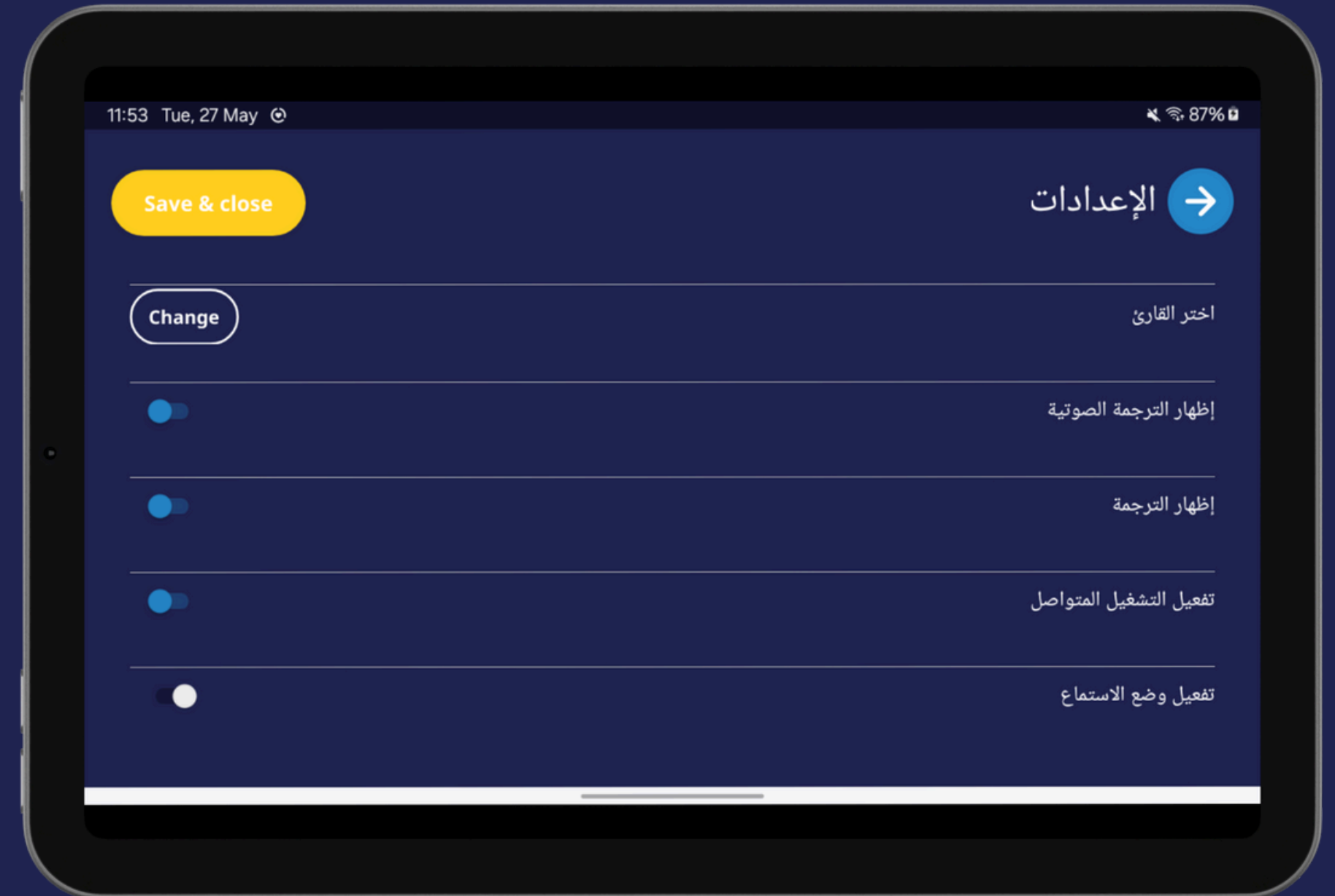
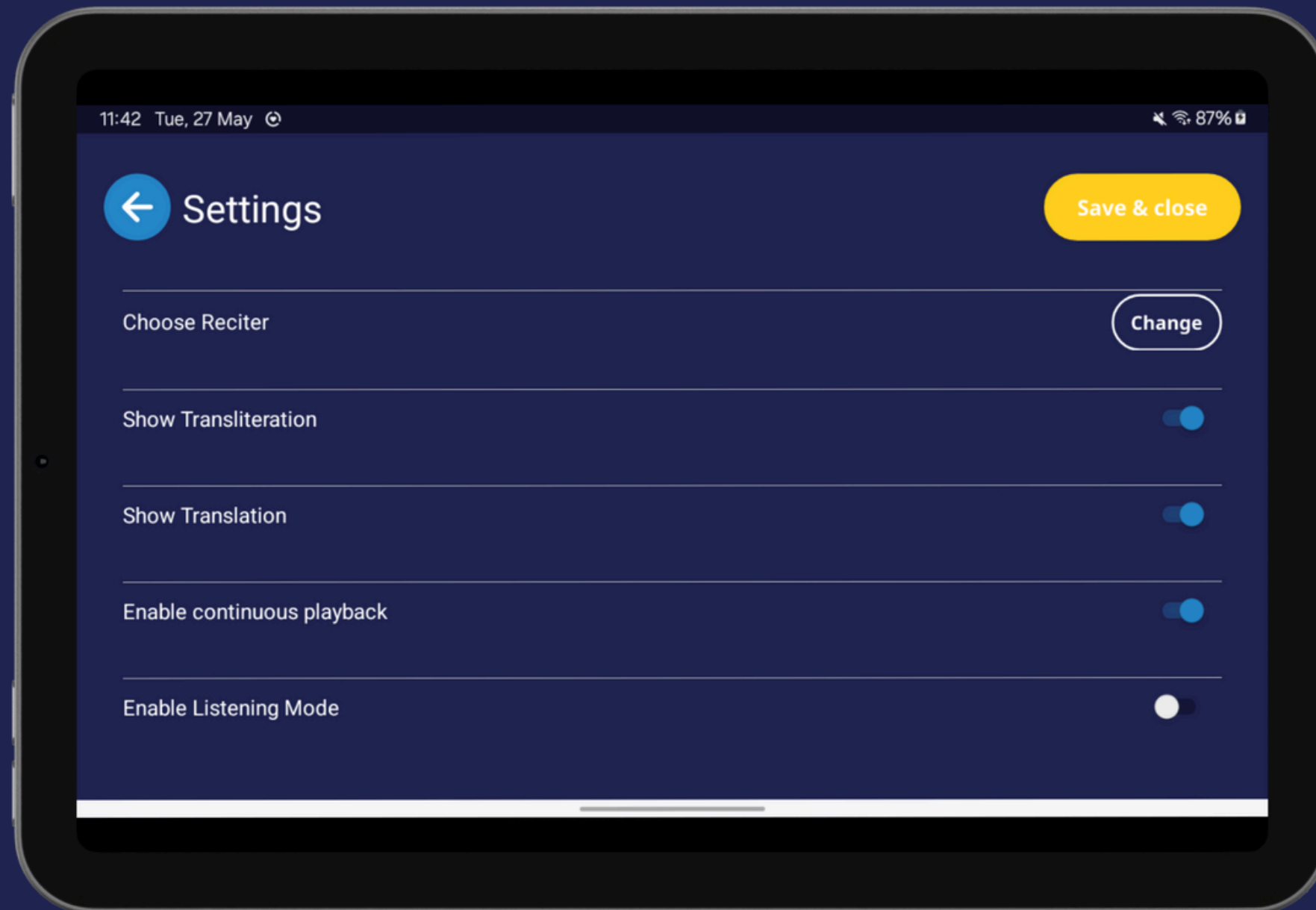
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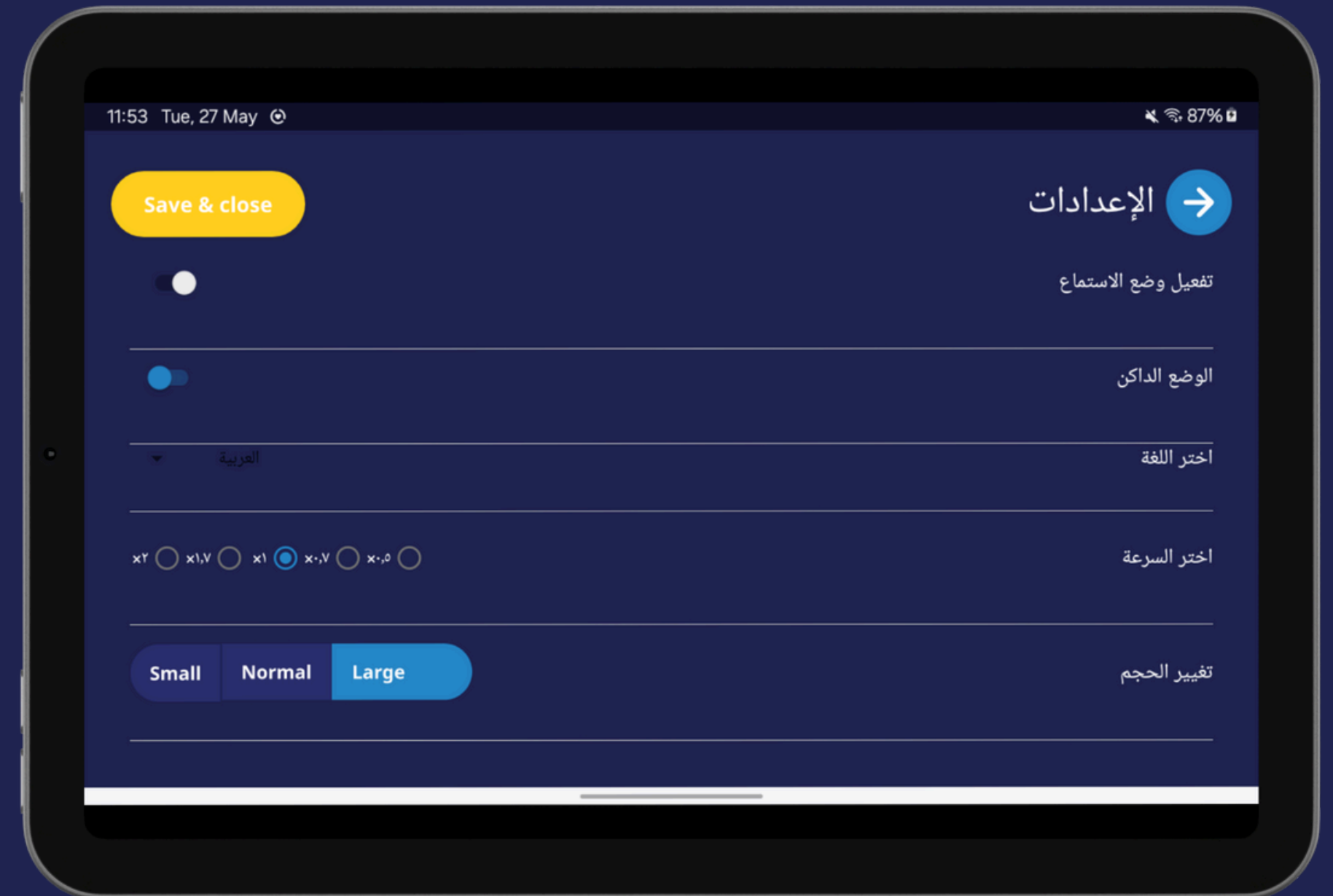
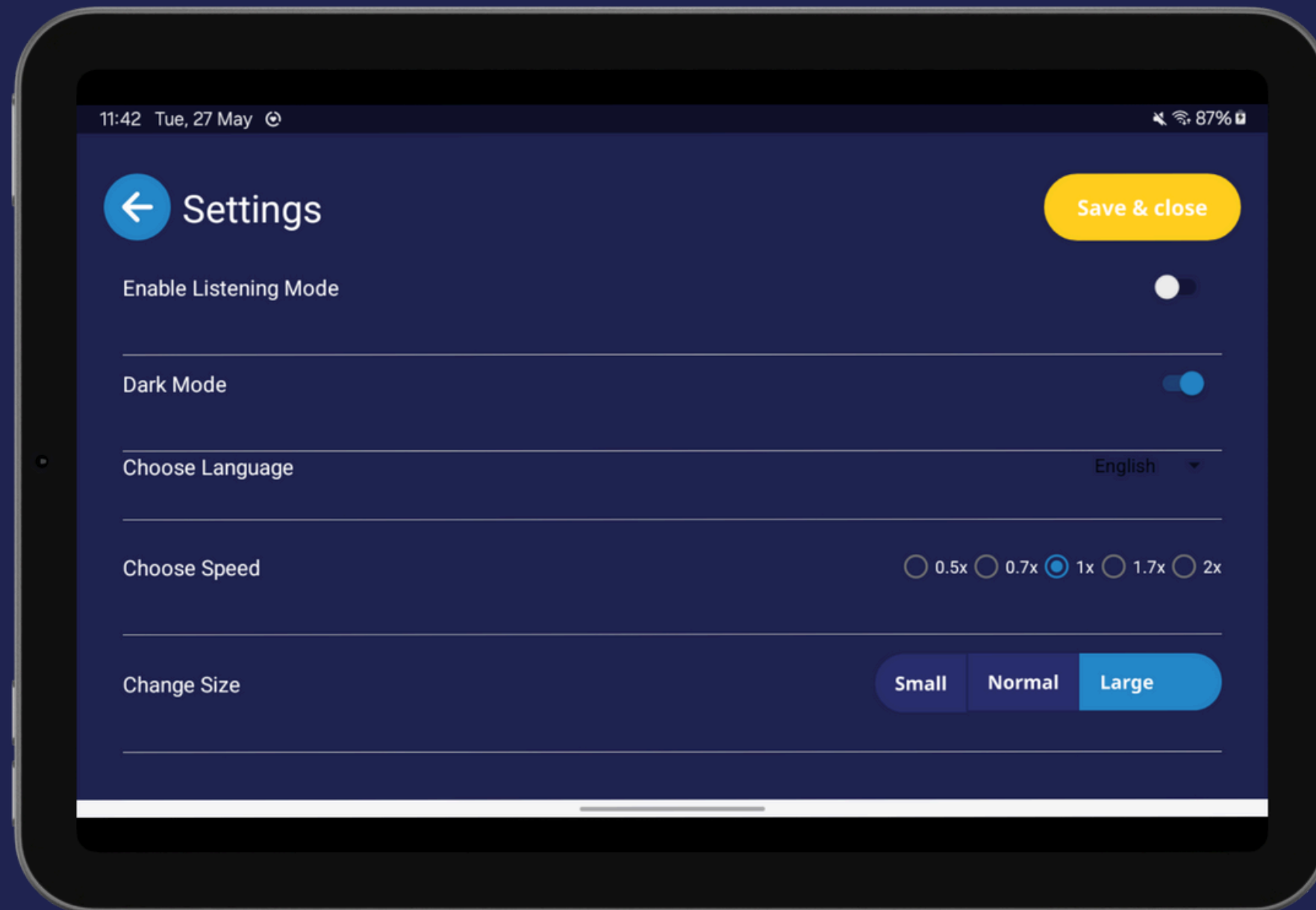
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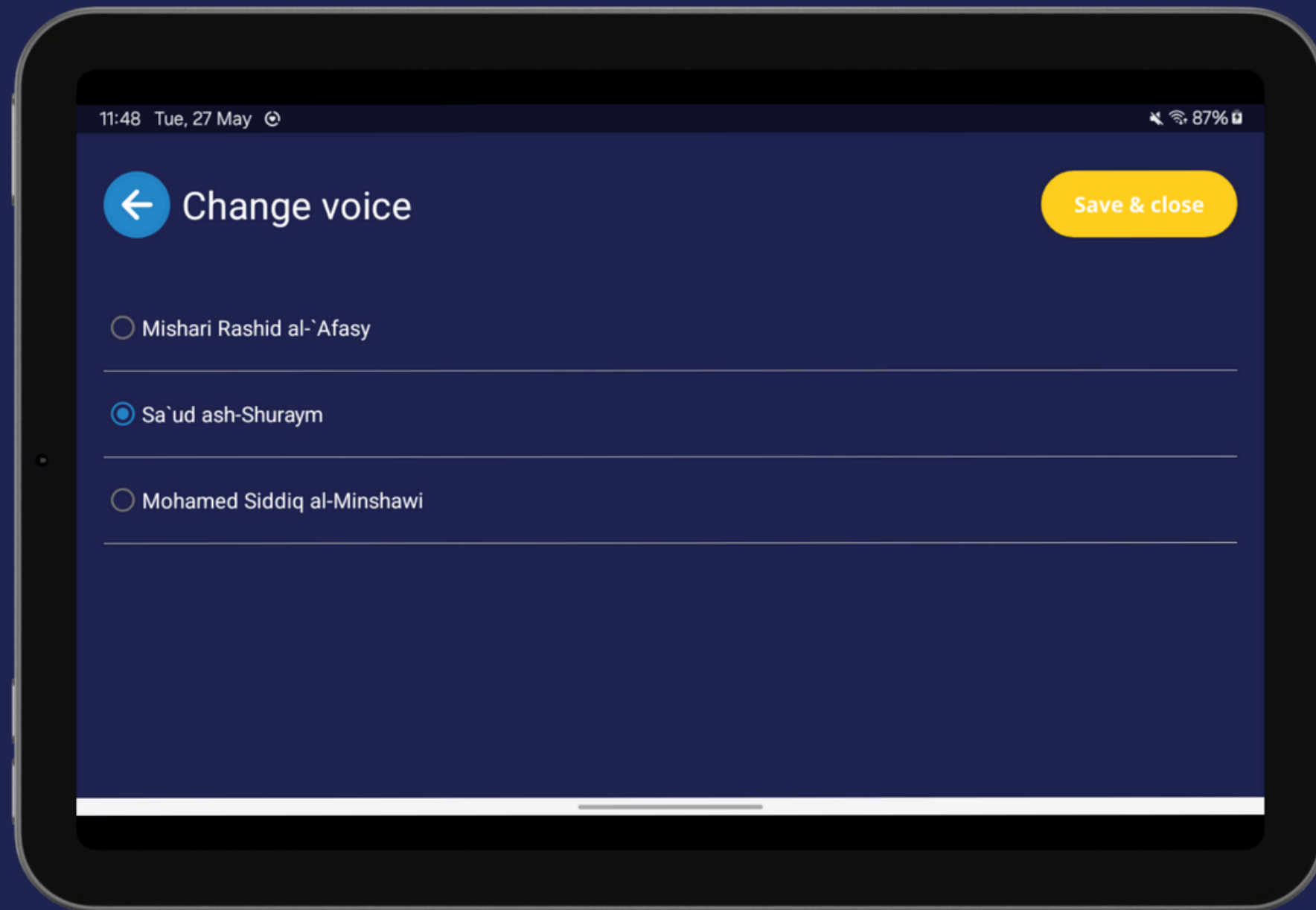
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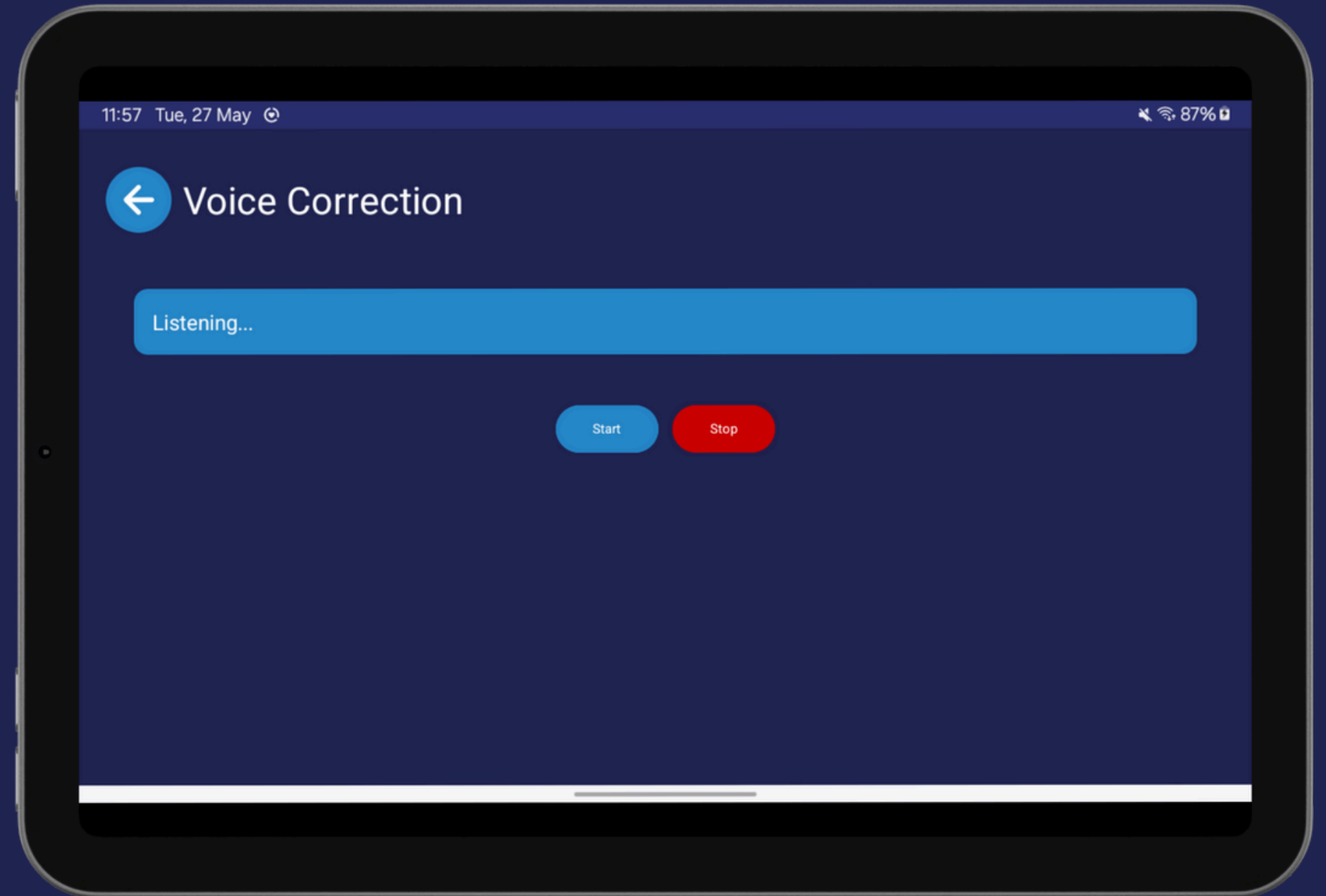
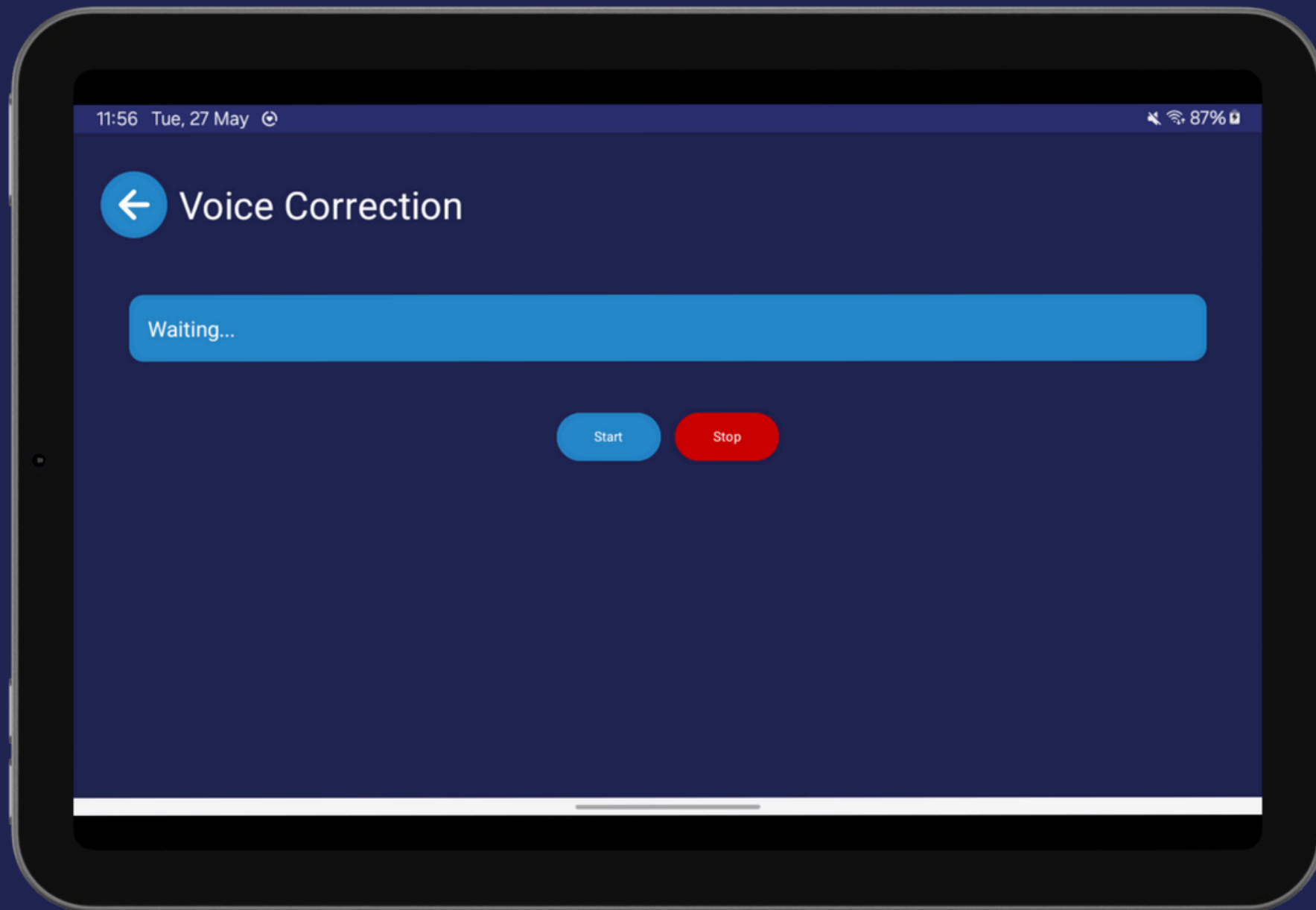
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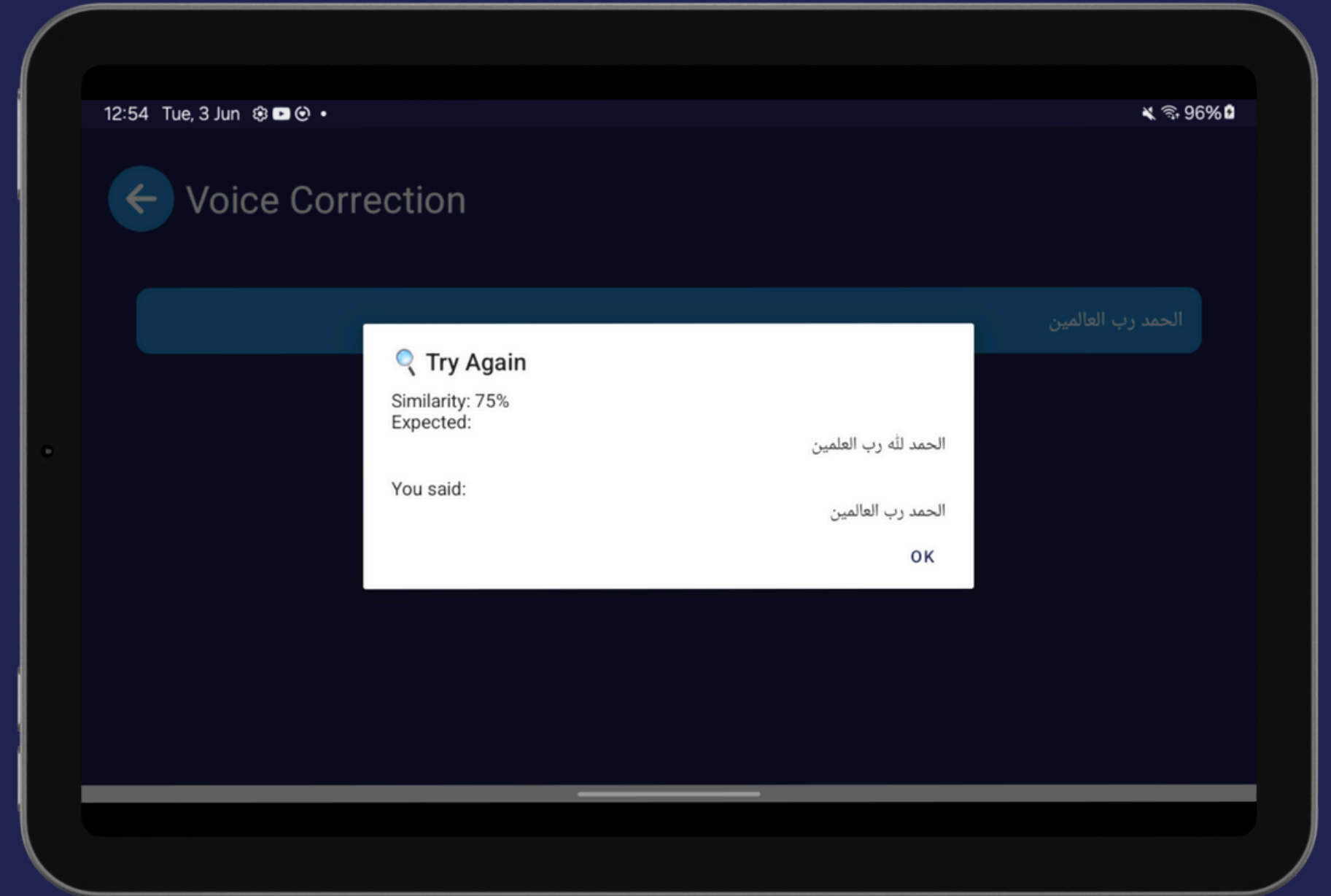
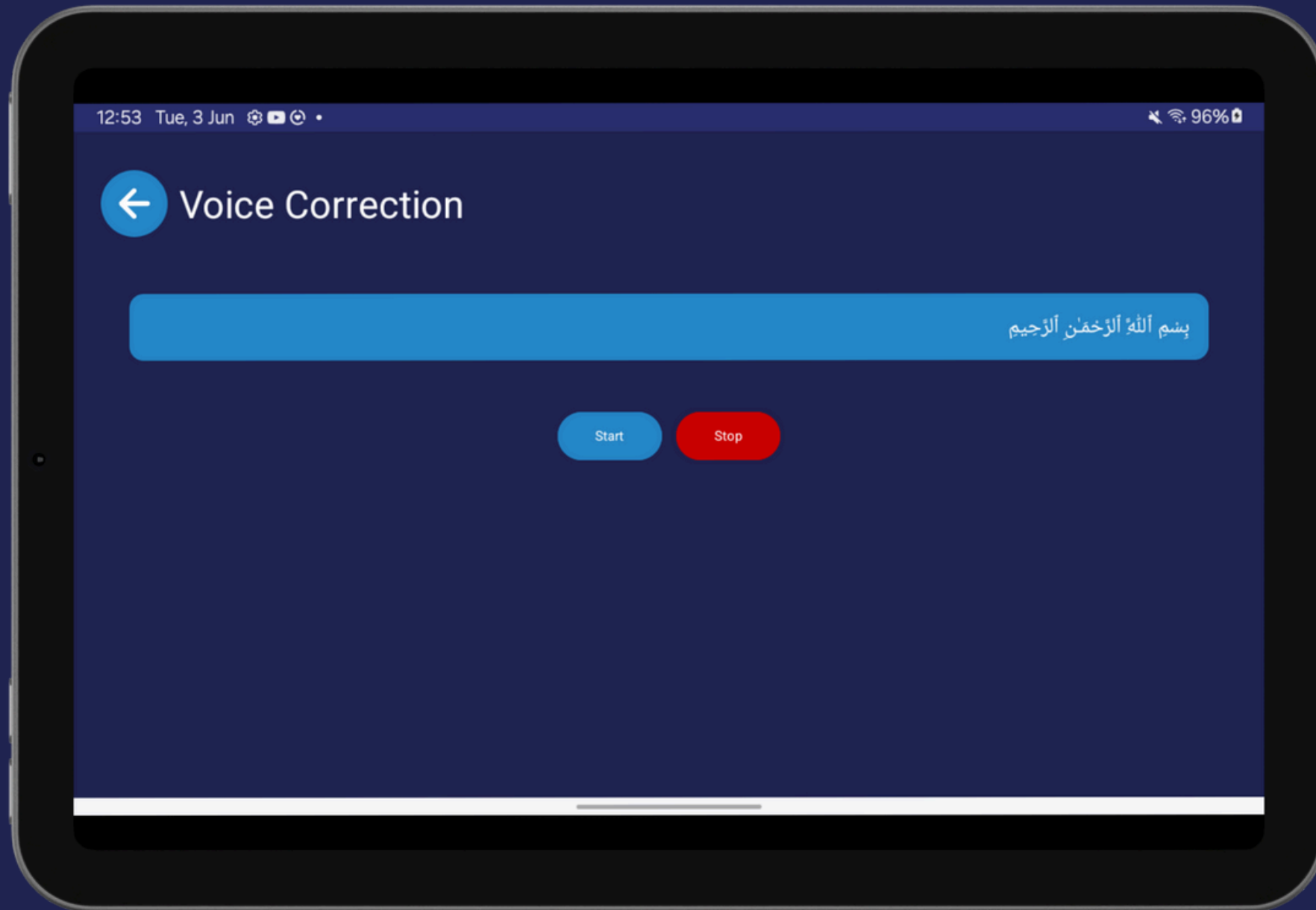
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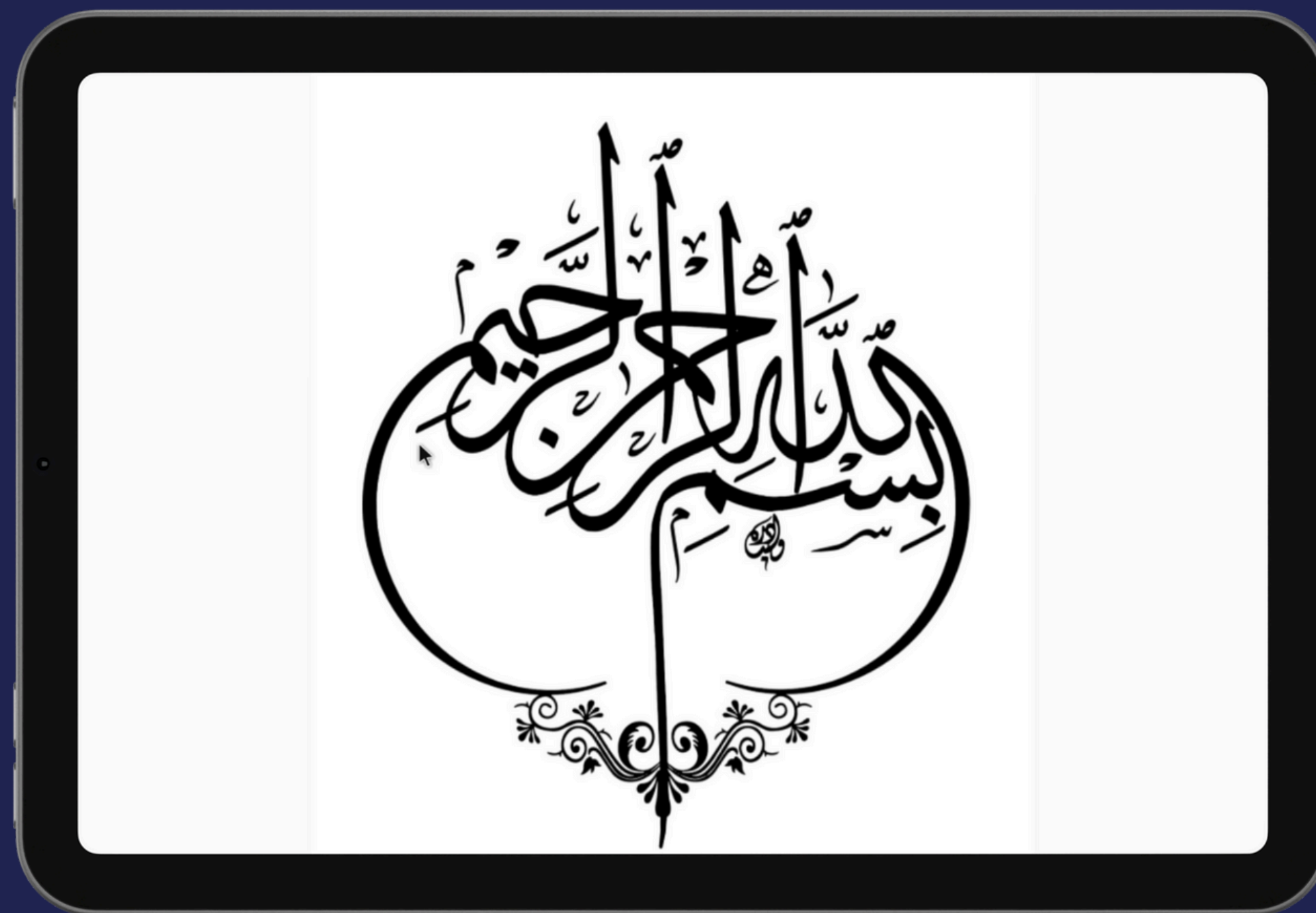
# Voice Correction



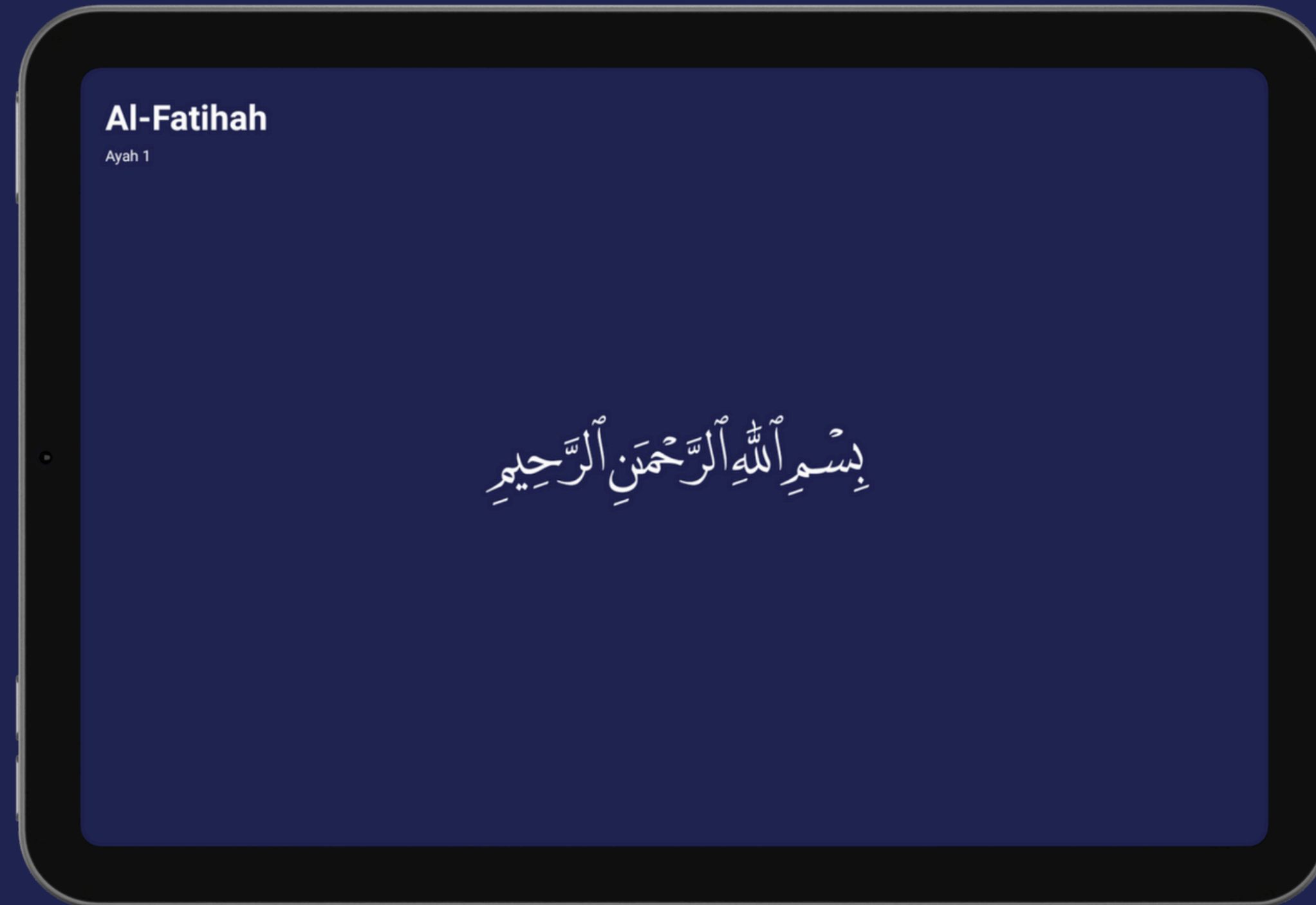
# Voice Correction



# Receiver Side UI



# Receiver Side UI



# Receiver Side UI

## Al-Fatihah

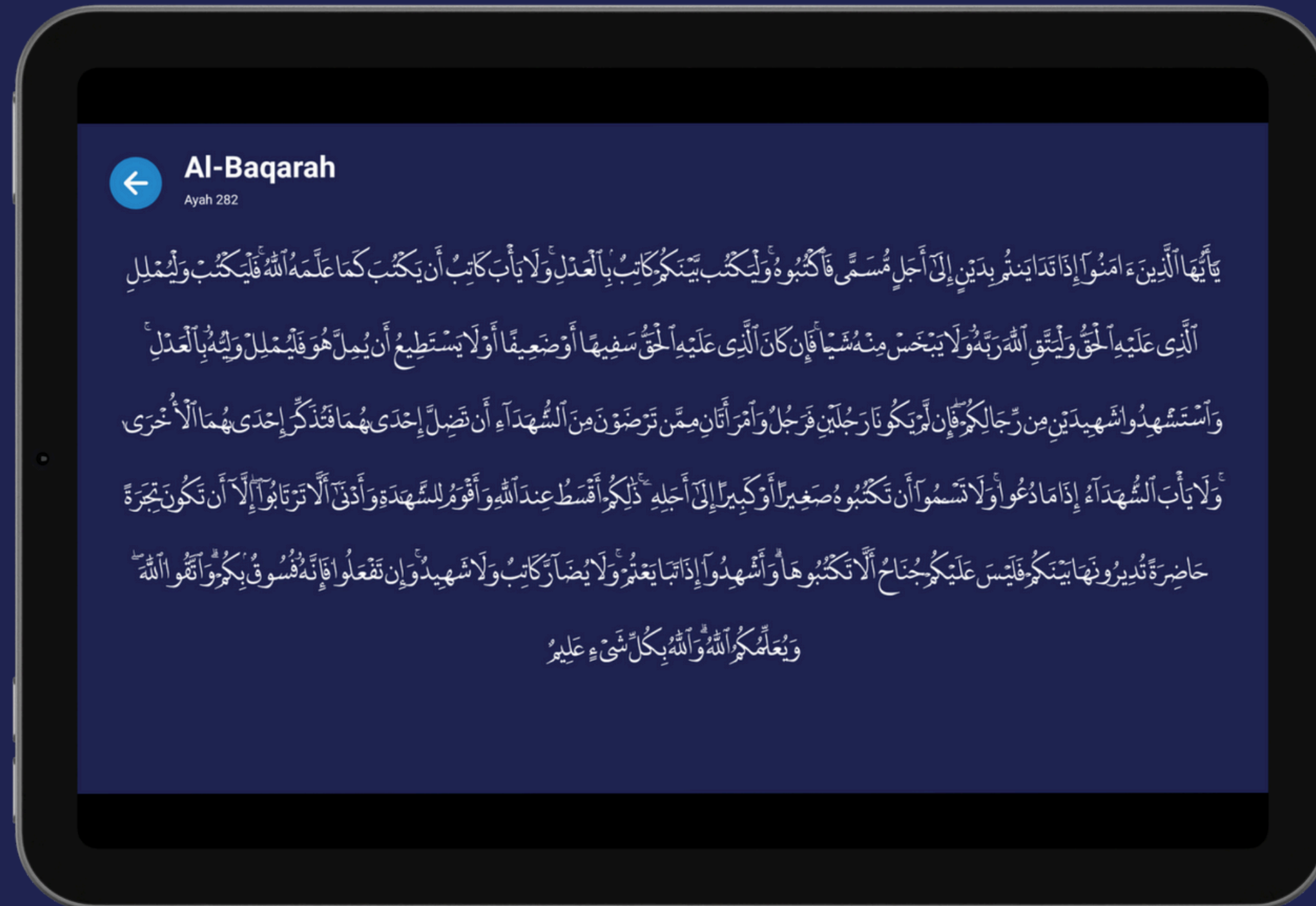
Ayah 1

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

bi-smi llāhi r-raḥmāni r-raḥīmi

In the Name of Allah, the All-beneficent, the All-merciful.

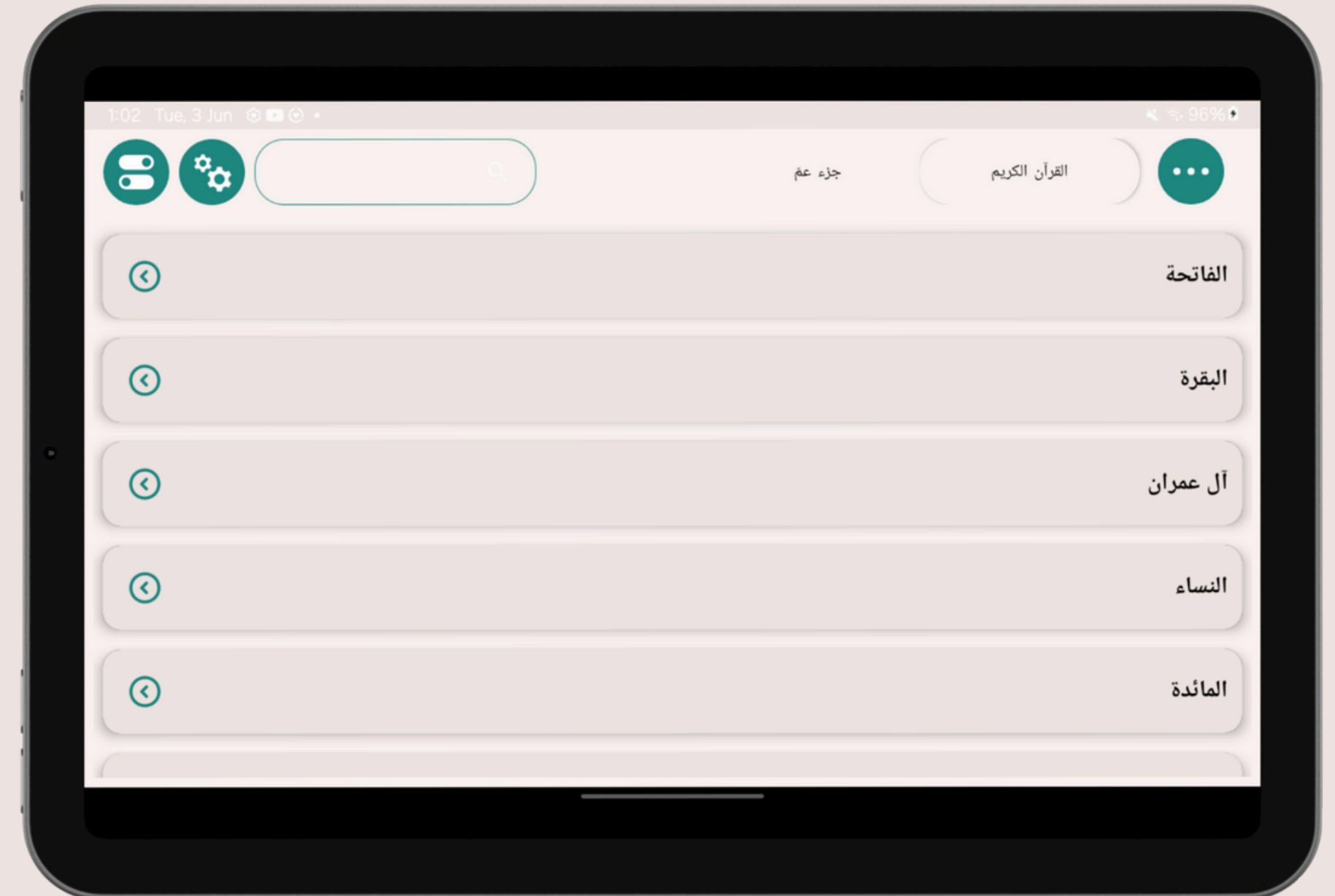
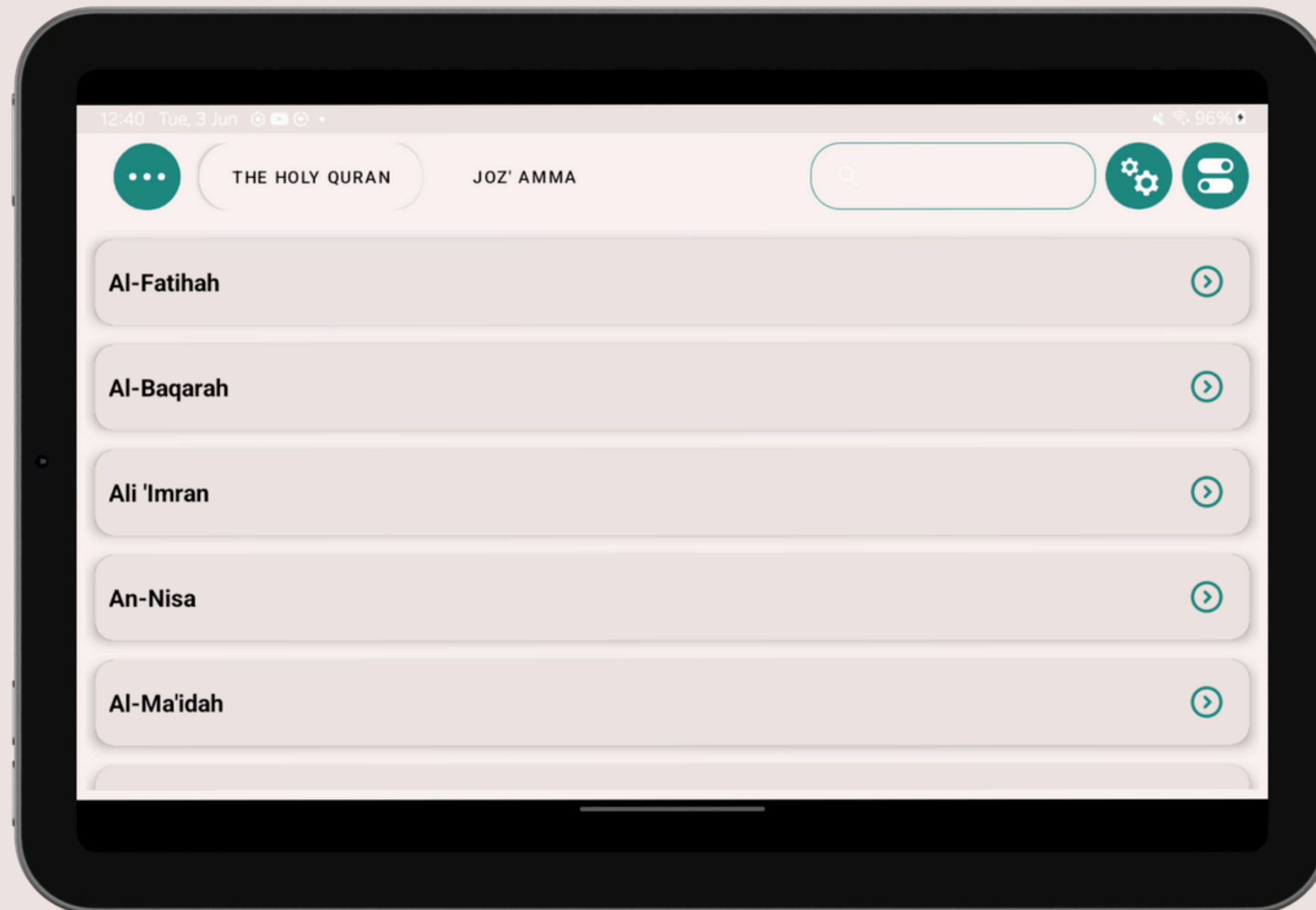
# Receiver Side UI



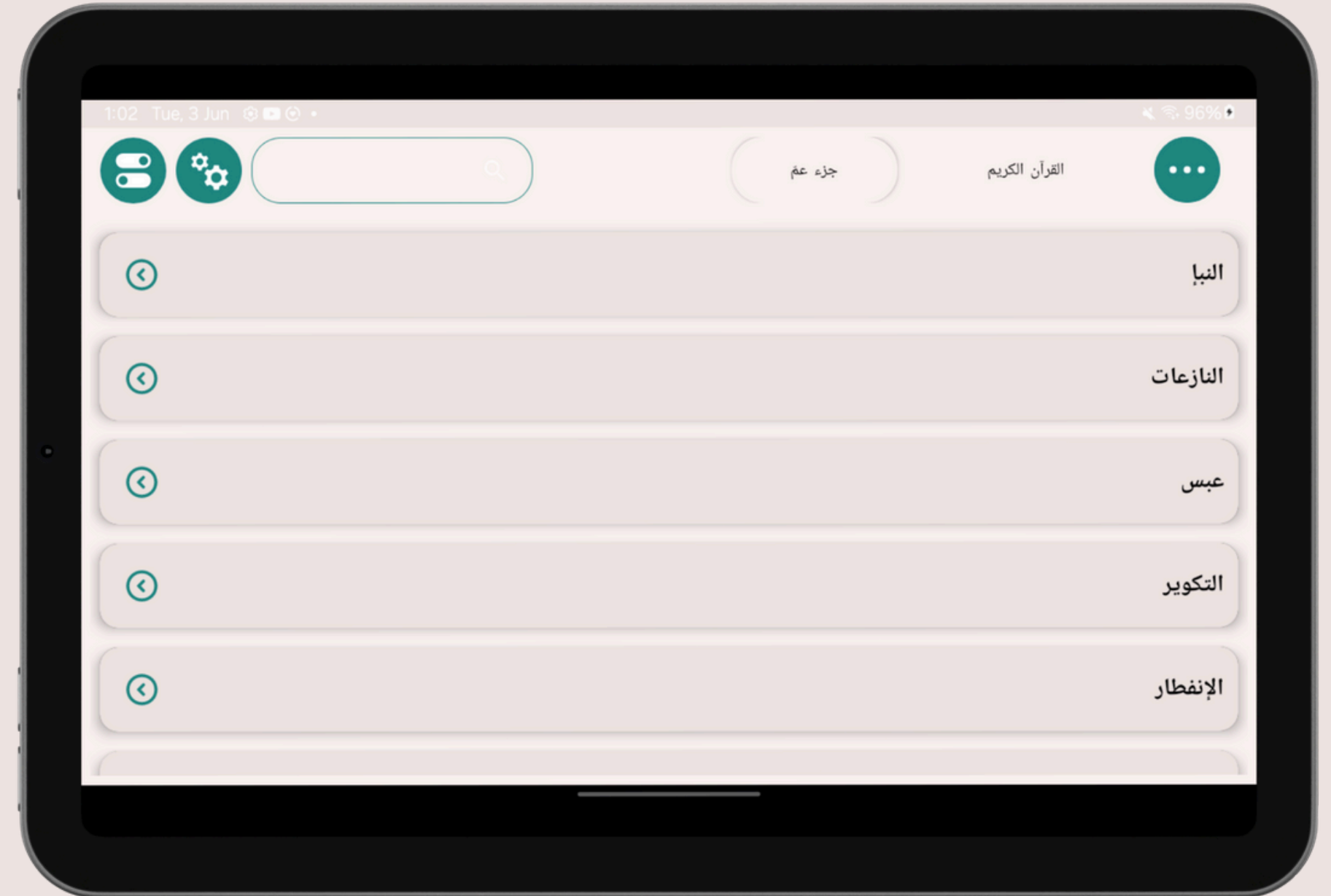
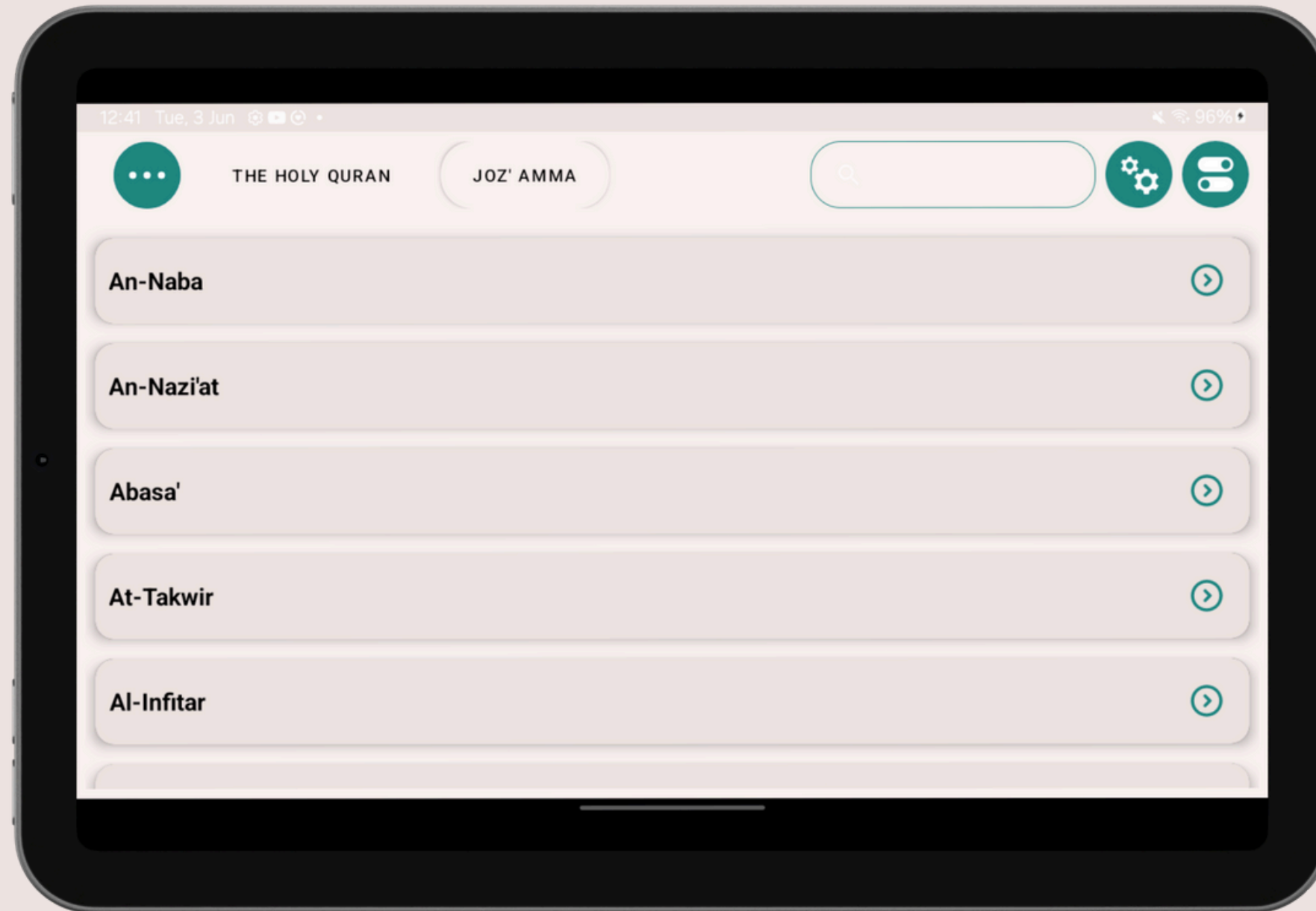
# Receiver Listening Mode



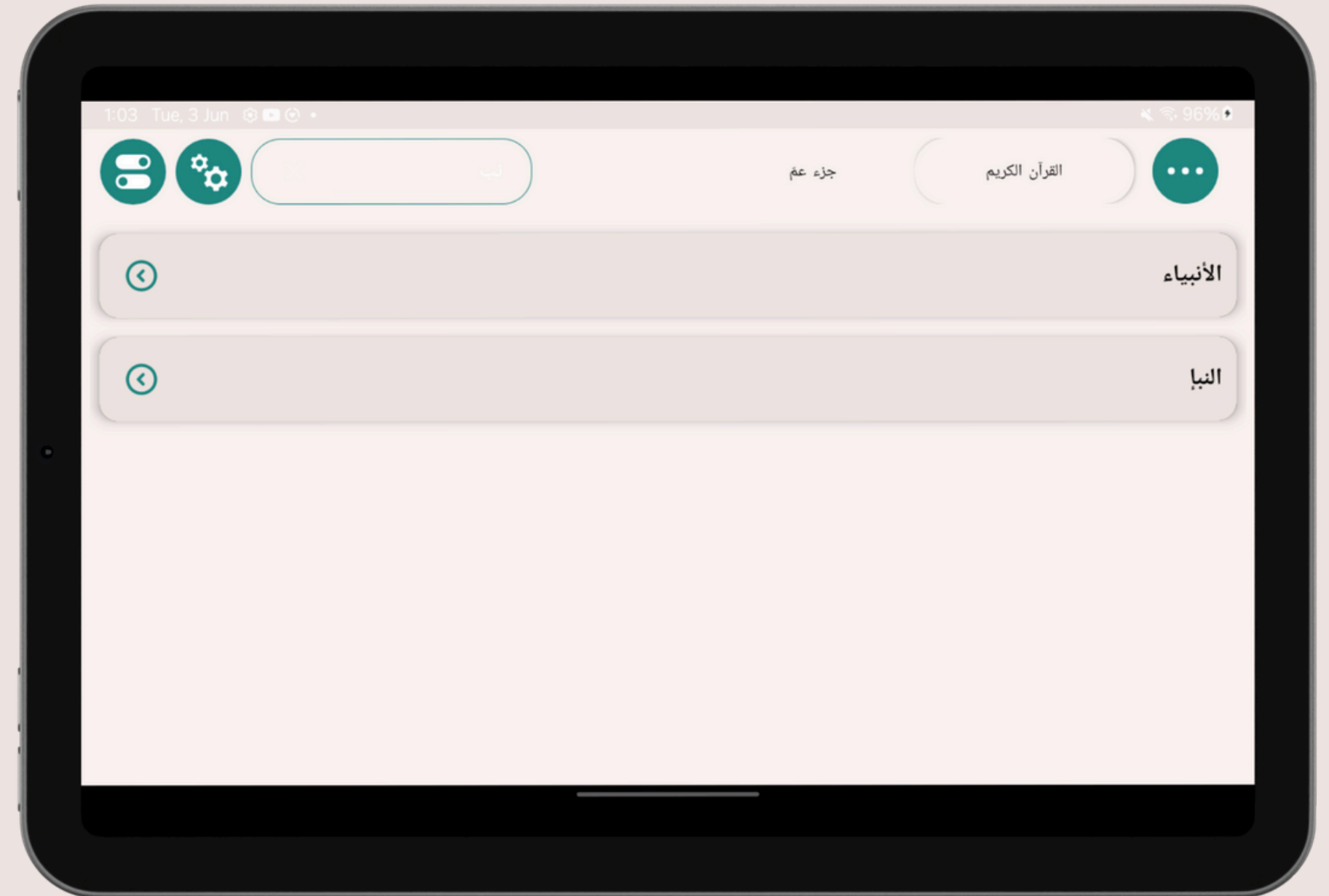
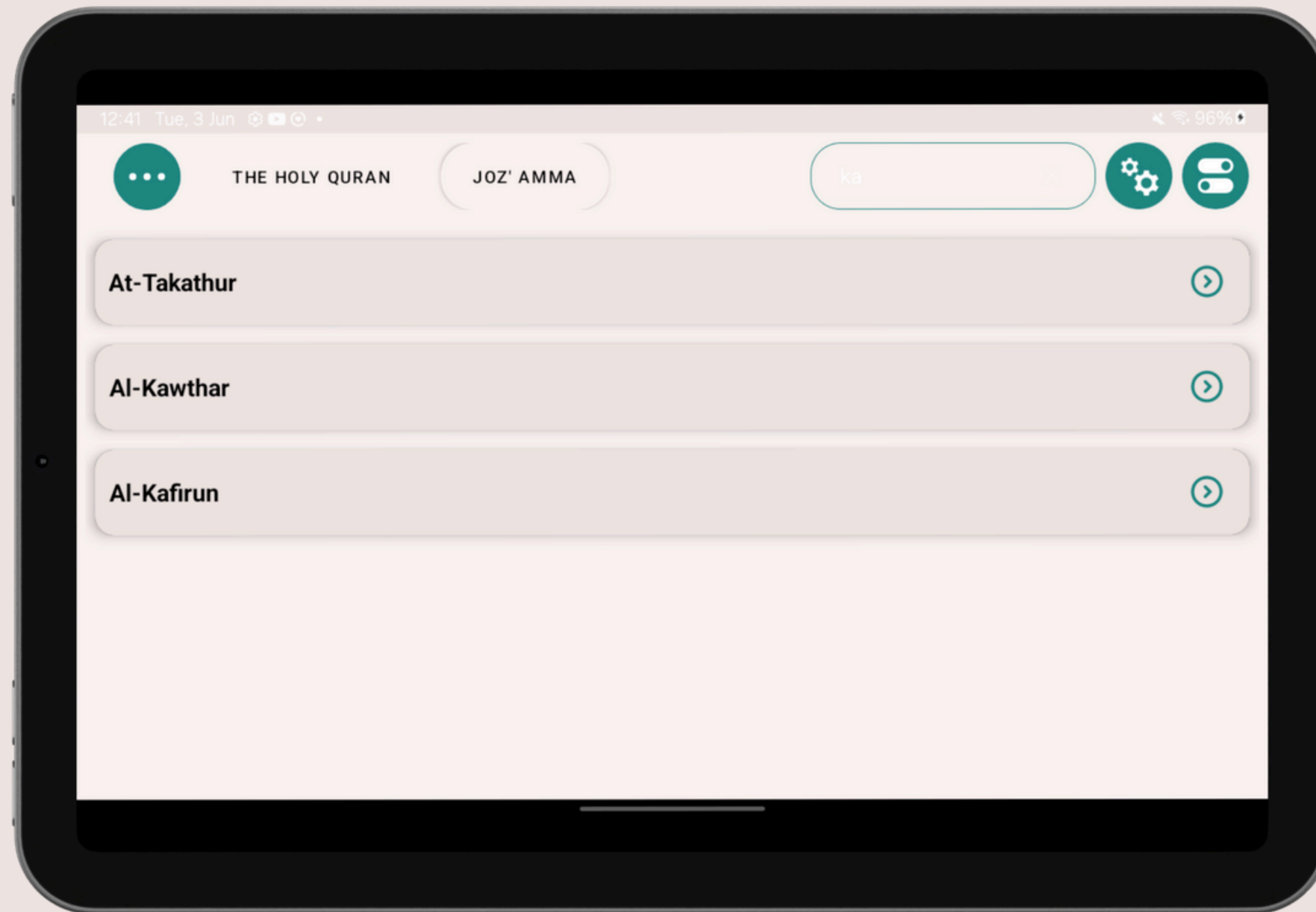
# Controller Side UI



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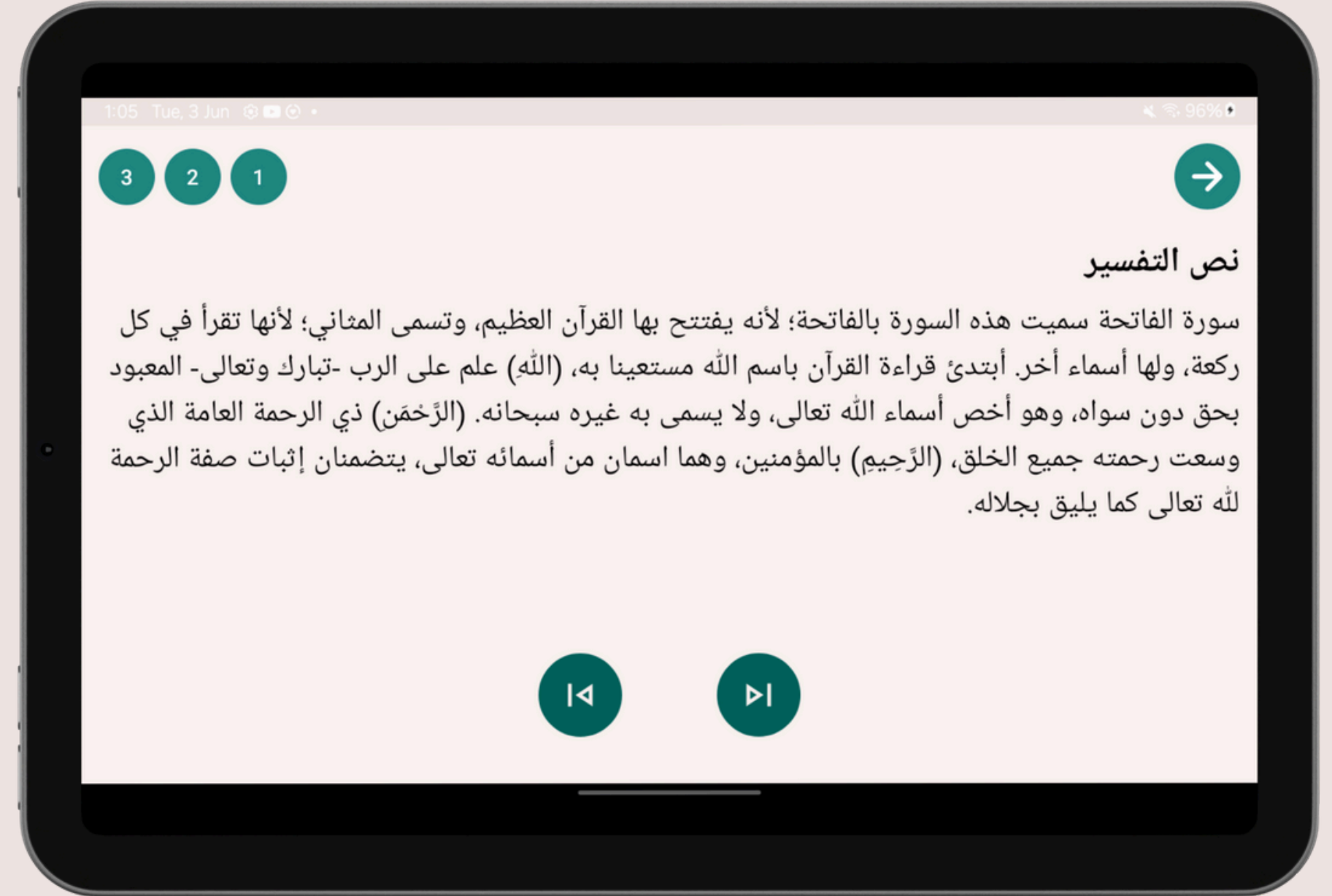
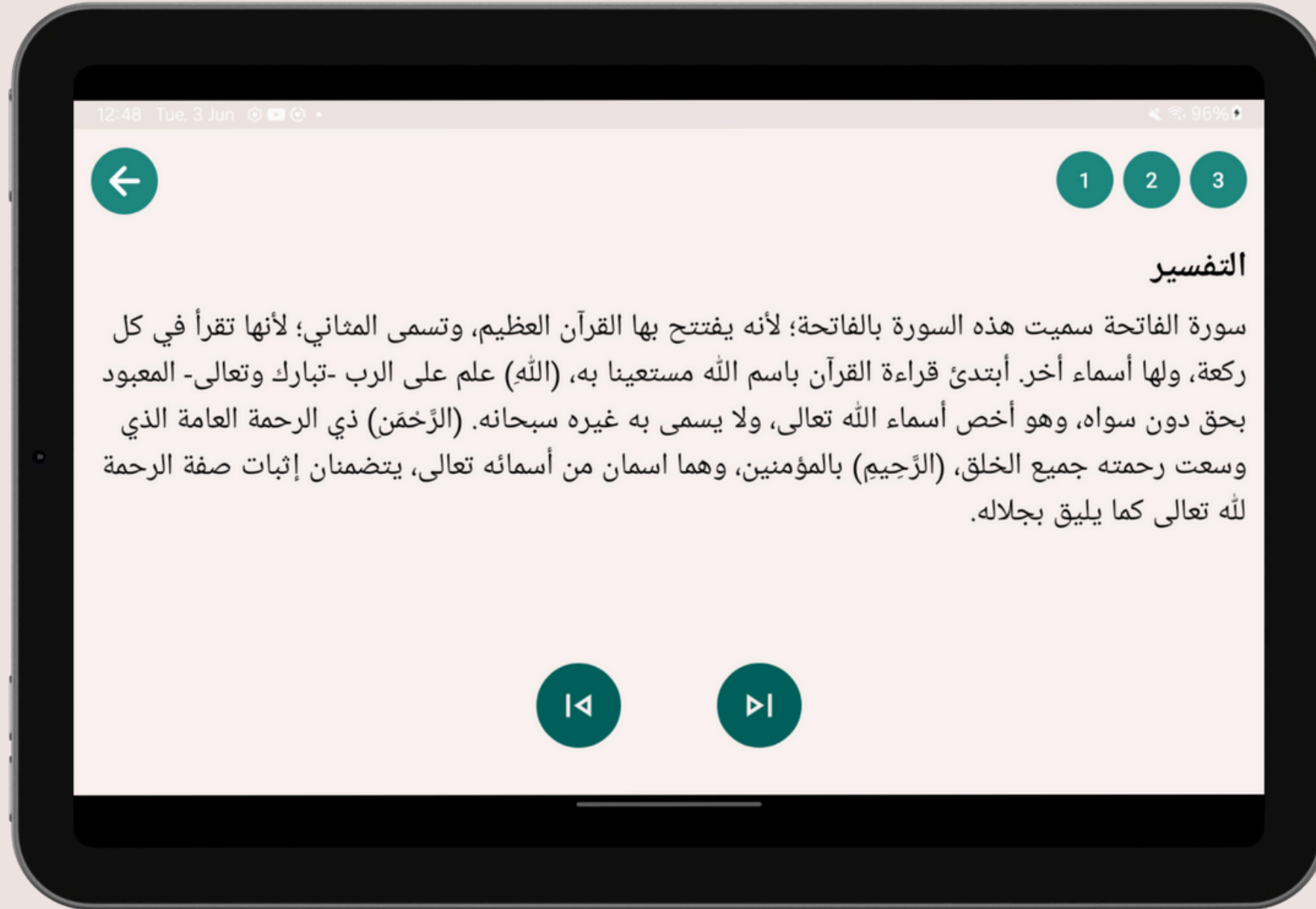
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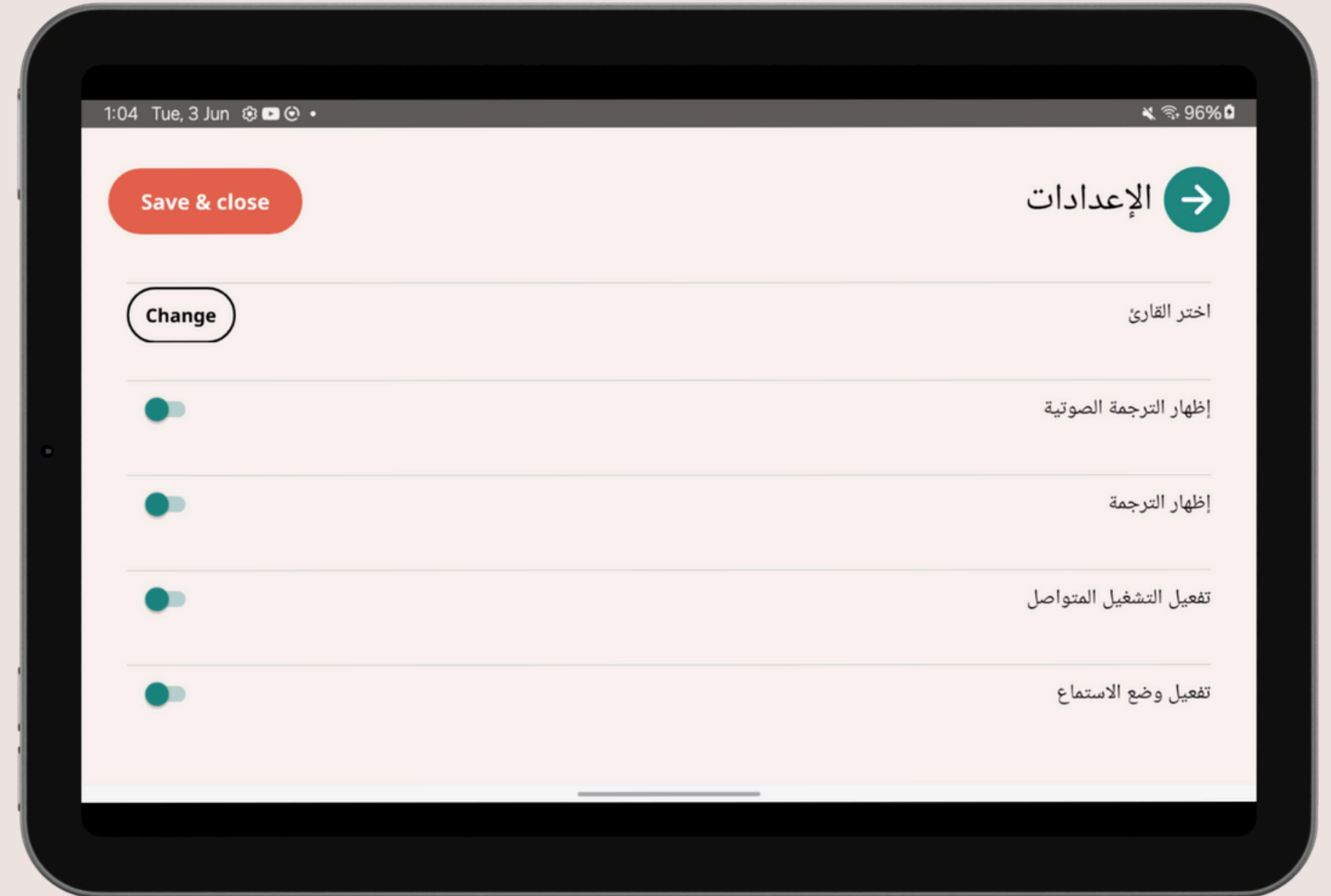
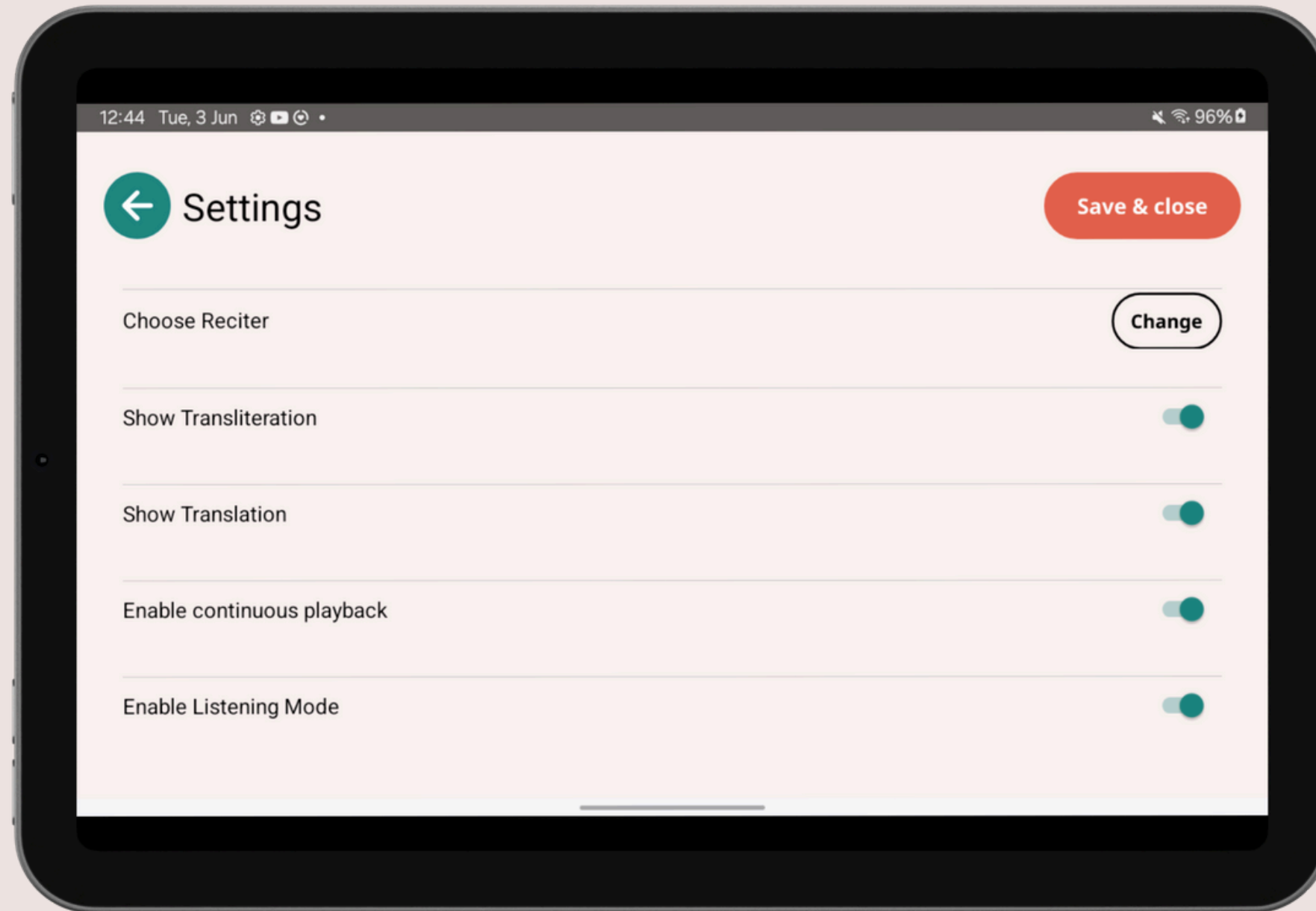
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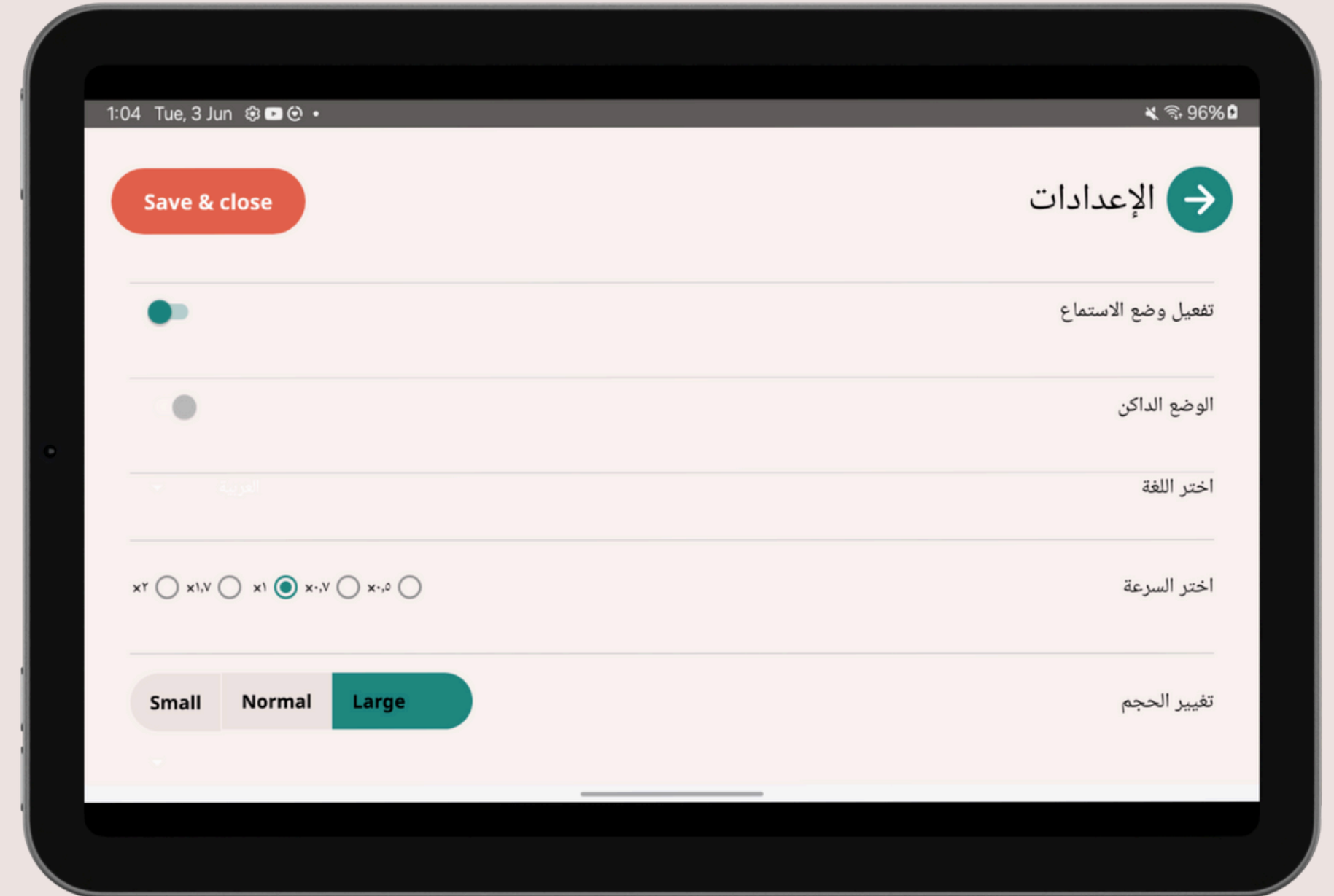
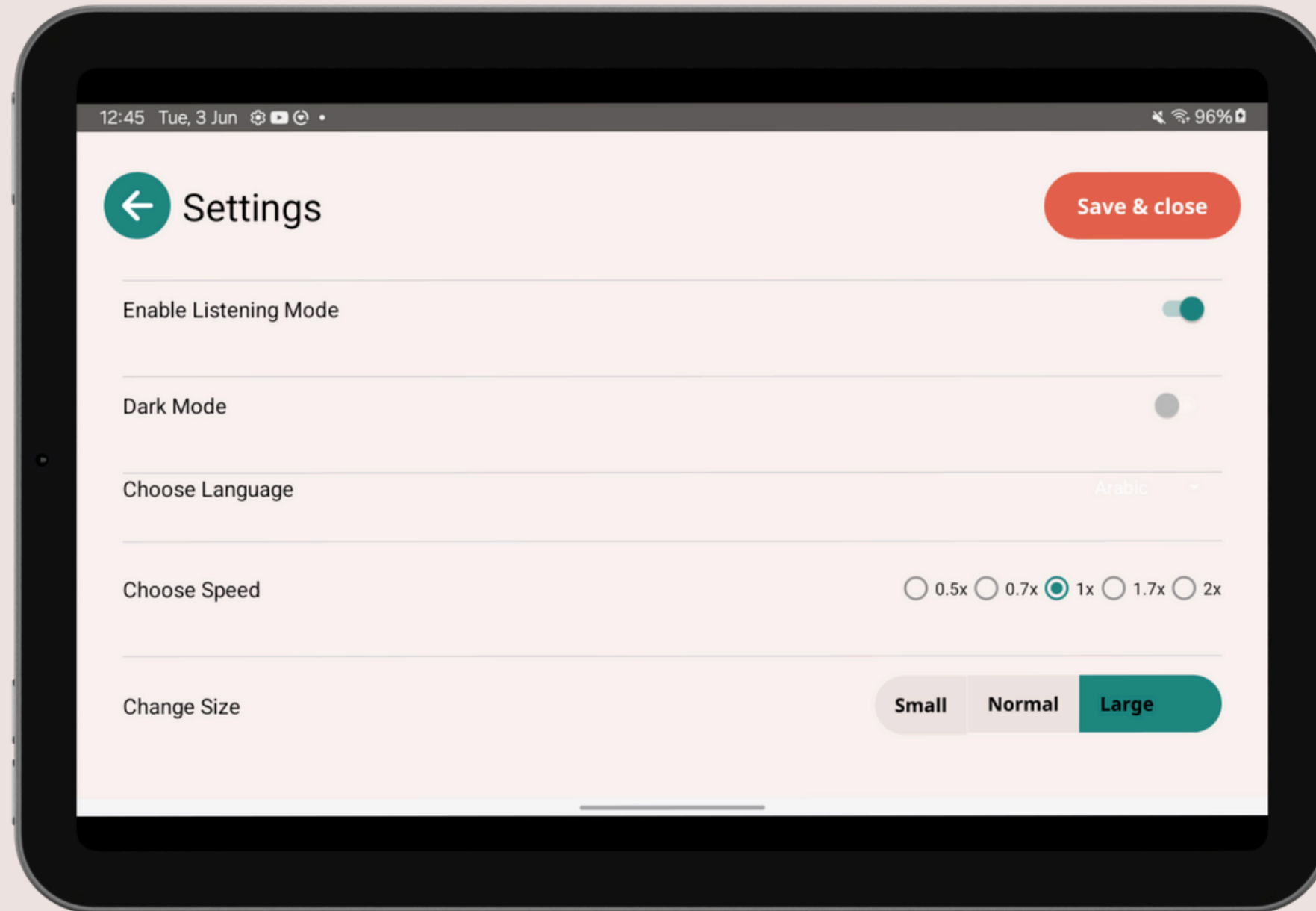
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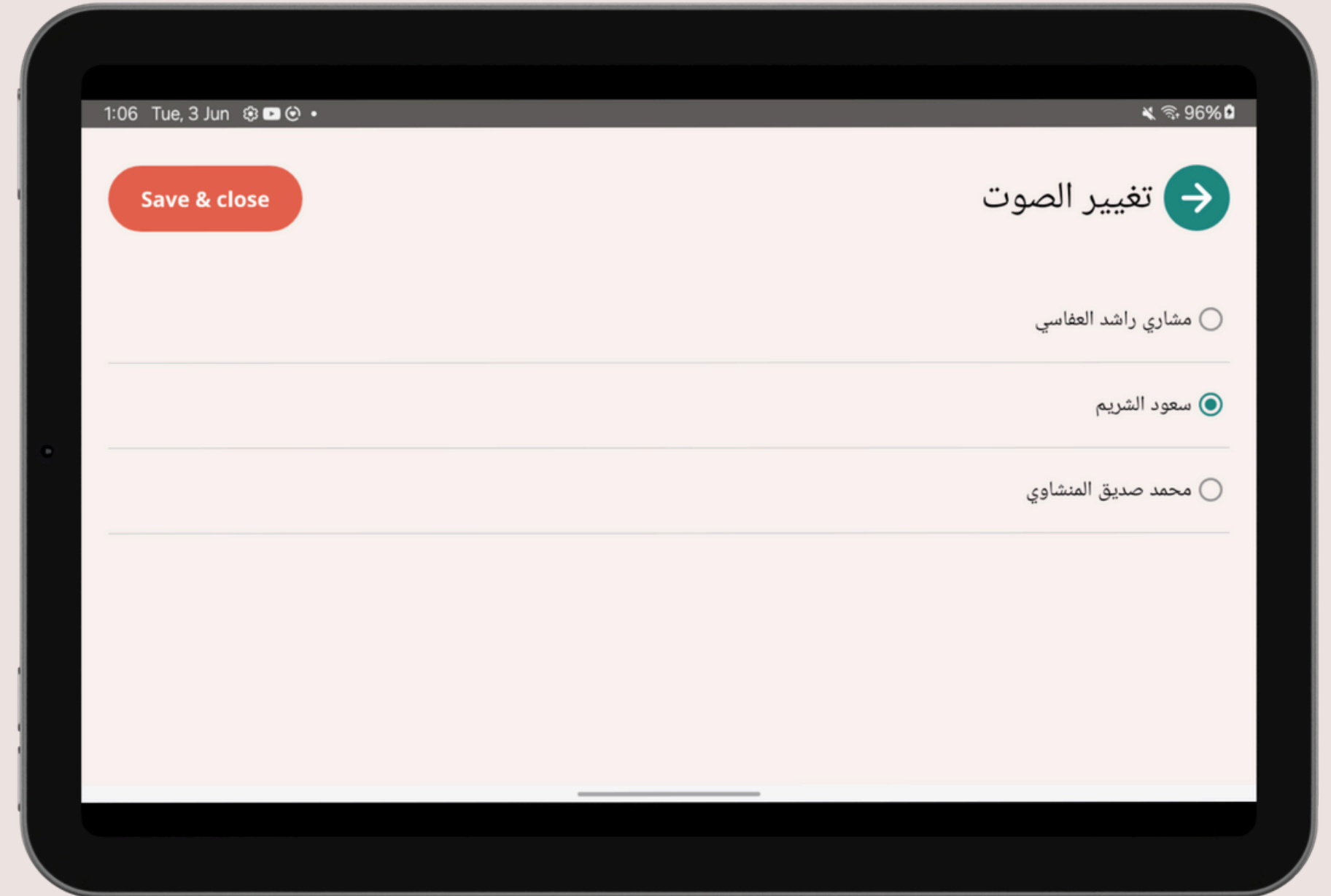
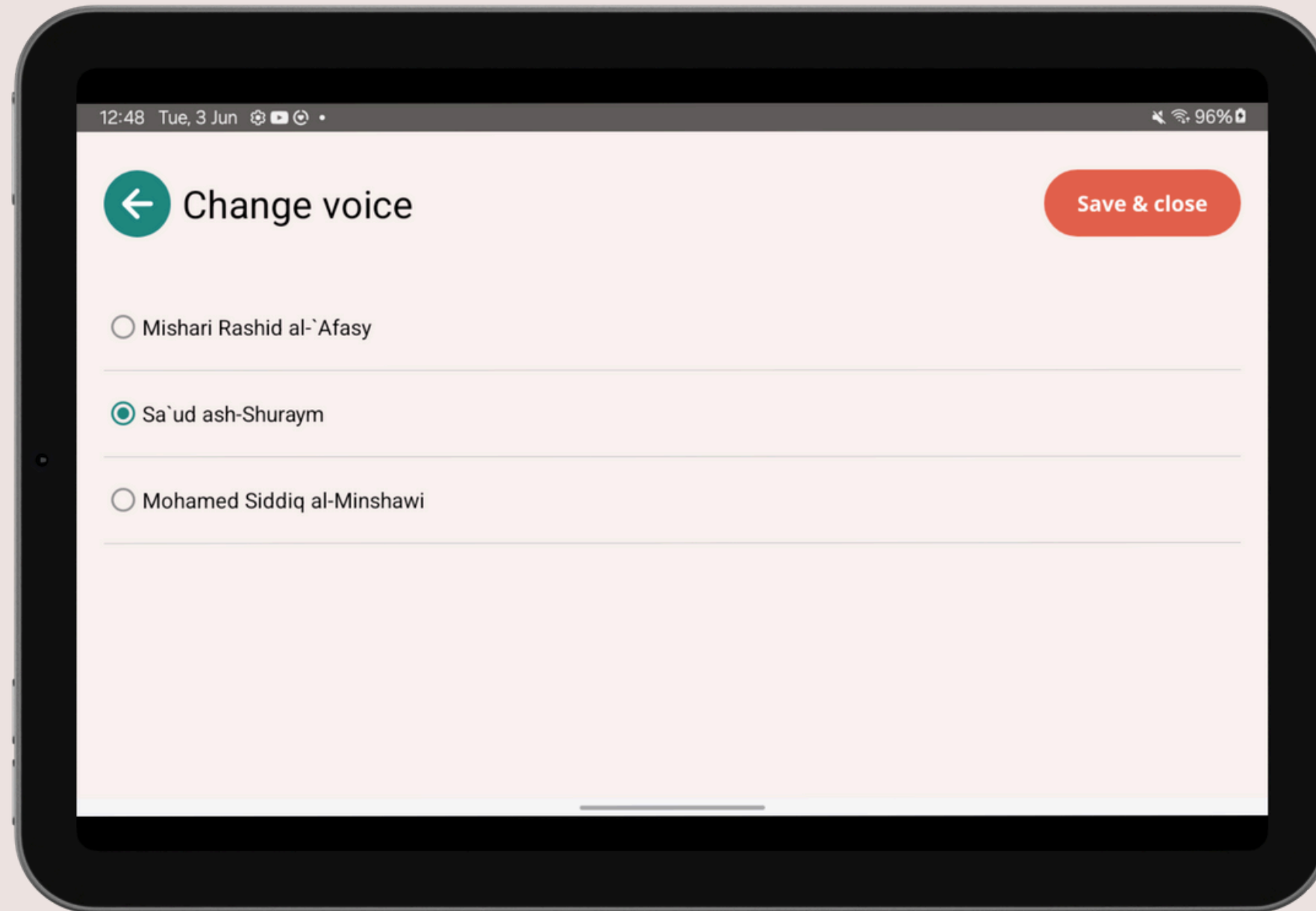
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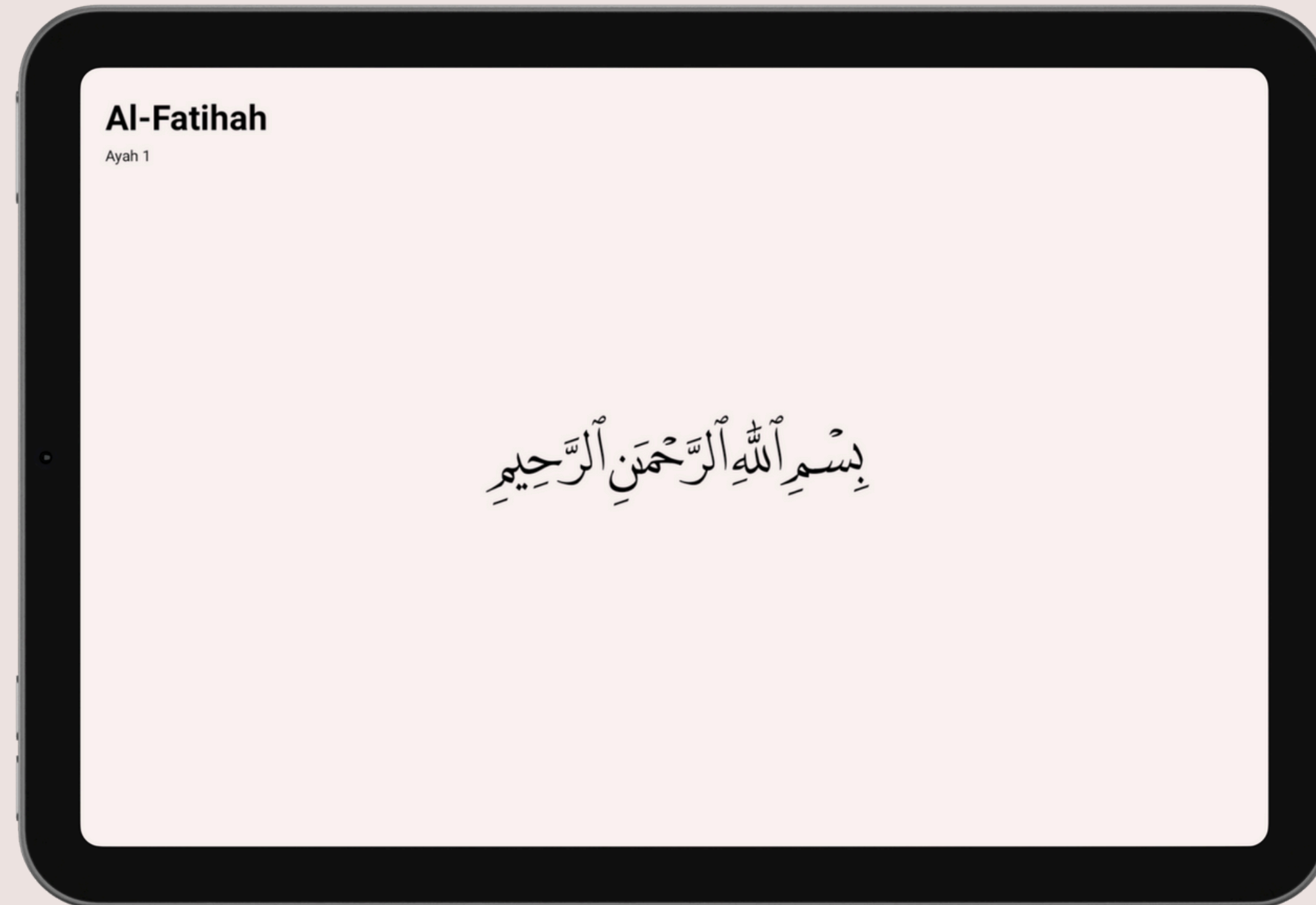
# Controller Side UI



# Controller Side UI



# Receiver Side UI



# Receiver Side UI

## Al-Fatihah

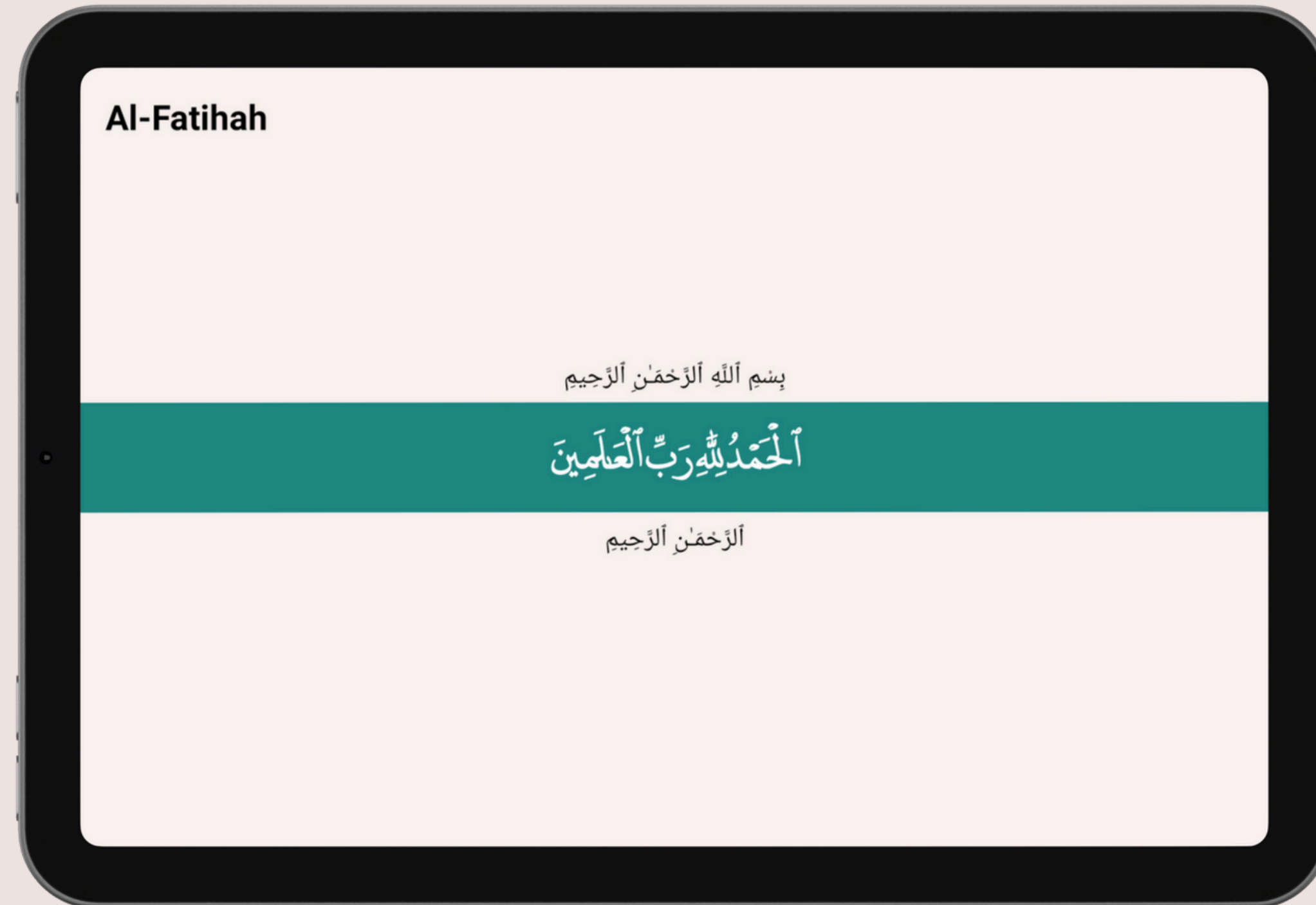
Ayah 1

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

bi-smi llāhi r-raḥmāni r-raḥīmi

In the Name of Allah, the All-beneficent, the All-merciful.

# Receiver Listening Mode



# CONSTRAINTS

- **Regulatory or Compliance Requirements**
- **Programming Principles and Rules**
- **Refactoring Time**
- **AI Voice Correction Complexity**

# FUTURE WORKS

- **Smart Review and Spaced Repetition System**
- **Interactive Tajweed & Pronunciation Guides**
- **Offline Tafseer & Translation Downloads**
- **Intelligent Mistake Analysis**

THANK YOU