

Assignment 3

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Team Members and Roles

Solo project by Shaikhutdinov Murat.

AI Tools Used: Grok for creating the LaTeX file from a text file and for grammar checking.

GitHub Repository

SWP GitHub Repository

Mock Data for Assignment Requirements

Since the project was completed before these assignments, I've created mock processes to show how I would have done it with a team and in proper timing. They are also assessible in github issues(the issues are not closed even though some of the functionality persists in the bot):

- **Groomed Product Backlog** (Example mock issues):
 1. Implement basic bot functionality
 2. Add text-to-speech capability
 3. Create user interface
 4. Implement error handling
 5. Add language selection feature for interface
- **Sprint Goal and Backlog:**
 - Sprint Goal: "Implement core functionality for text reading and pronunciation"
 - Sprint Backlog: Issues #1, #2, #3 from above
- **Milestone:**
 - A milestone called "MVP" with associated issues #1-3

Retrospective Report

Not applicable as this is a solo project completed prior to assignment. In a team setting, we would discuss what went well, what could be improved, and action items for next sprint.

Git Workflow Process Description

For this project, I've established the following Git workflow: workflow:Standart Workflow

Acceptance Criteria for Selected User Stories

1. As a user, I want to see different recordings of the same text so that I can compare readings.
 - The system displays a "Recordings" section when viewing a text, listing all available recordings.

- Users can play any recording, with synchronized text highlighting during playback.

2. As a reader, I want to browse available texts so that I can choose one to practice with.

- Texts are displayed in a paginated list (5 per page) with cards showing: Title (truncated if long). Author name (or “Anonymous”). Preview snippet (first 50 characters). Number of recordings available (e.g., “3 recordings”).
- Clicking a text opens its full view with recording/playback options.

3. As an author, I want to upload PDF files so that I can share texts with others.

- The system accepts and stores PDF files (e.g., .pdf extension).
- The system extracts text content using PyPDF2, preserving paragraphs and line breaks.

4. As a reader, I want to record audio of me reading a text so that I can track my progress.

- Recorded audio is uploaded to the backend and associated with the selected text.
- The user receives feedback (e.g., “Recording saved”) upon completion.

5. As a user, I want to see text highlighted as audio plays so that I can follow along easily.

- The mini-app displays the text synchronized with the audio playback.
- Words are highlighted in real-time as they are spoken in the audio.

Deployed Minimum Product

SWP Telegram Bot

(Note: I will launch the bot upon your request)

Customer Testing Report

Since this is a personal project, I performed testing myself using the acceptance criteria above. All core functionality was verified:

Current Progress and Next Steps

Current Status

MVP V1(Even not V0) deployed with core functionality including text receipt and pronunciation capabilities.

Next Steps

1. Expand language support
2. Implement user preference persistence
3. Add more robust error handling
4. Improve navigation
5. Consider moving to other database

Tracking Sheet

Not applicable for solo project. In a team setting, we would use GitHub Projects or similar for tracking.