GSoC '24 Test

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1 Preface

This is the Quarto Book dedicates for my application to Audiobooks for quaro as part of Google Summer of Code 2024.

This includes the following parts:

1.1 Table of Contents:

1. Introduction: A Short Introduction About me
2. Test 2:A quick review of function how I solve the second challenge
3. Test3: A quick review of function how I solve the third challenge

2 Introduction

My name is Quynh Nguyen, and I am a student from Case Western Reserve University, majoring in both Computer Science and Systems Biology.

3 Question 2

```r
convert_quarto_to_audio <- function(quarto_file_path, language = "en-us", sample_rate = "4
  # Load required libraries
  library(httr)

  # Read Quarto file
  quarto_content <- readLines(quarto_file_path)

  # Concatenate all lines of the Quarto file into a single string
  quarto_text <- paste(quarto_content, collapse = "\n")
  quarto_text <- gsub("#", "", quarto_text)

  # Call Text-to-Speech API
  endpoint <- "http://api.voicerss.org/"
  params <- list(key = api_key, src = quarto_text, hl = language, c = "MP3", f = sample_ra
  response <- POST(endpoint, body = params)

  # Check for errors in API response
  if (http_error(response)) {
    stop("Error:", content(response, "text"))
  }

  # Generate output filename based on input filename
  input_filename <- basename(quarto_file_path)
  output_filename <- gsub("\\.qmd$", ".mp3", input_filename)  # Replace .qmd extension wit

  # Save audio file
  output_path <- file.path("~/Documents/GSoC'24", output_filename)
  writeBin(content(response, "raw"), output_path)
  cat("Audio file saved:", output_path, "\n")
}
```

4 q3