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# **California State Polytechnic University, Pomona**

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## **Audio Module Release Notes**

**VERSION 2.0**

**DECEMBER 10, 2021**

**CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA  
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Audio Module	Version: 2.0
AUDIO_Release_Notes	Date: 12/10/2021

## Revision History

Date	Version	Description	Author
12/01/2021	draft	Setup document boilerplate	Maribel Gershman
12/03/2021	1.0	Compatible Products	Nachiket Patel
12/04/2021	1.1	Potential Upgrades	Abrahan Pedroza
12/05/2021	2.0	Known Bugs and Limitations	Maribel Gershman, Nachiket Patel, Abrahan Pedroza, Diego Garcia

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# Release Notes

## 1. Introduction

### 1.1 Disclaimer of Warranty

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### 1.2 Purpose

The purpose of the **Release Notes** document is to communicate major new features and changes in this release of the Audio Module. It also documents known problems and workarounds.

### 1.3 Scope

This document describes the Audio Module as assigned in the CS4800 Software Engineering Fall 2021 course at California State Polytechnic University, Pomona.

### 1.4 Definitions, Acronyms, and Abbreviations

This subsection provides the definition of all terms, acronyms, and abbreviations required to properly interpret the Release Notes, the Software Requirements Specifications Document, Technical Design Specifications Document, Test Case Specifications, and the Project Build & Deployment Instructions.

AM	Audio Module
API	Application Programming Interface
BEM	Back End Module

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DEV	Development
FAQ	Frequently Asked Questions
FEM	Front End Module
GST	Google Speech to Text
MIA	Mobile Interview Application
QA	Quality Assurance
REQ	Requirement
RUP	Rational Unified Process
SA	System Analyst
SRS	Software Requirements Specifications
TC	Test Case
UC	Use Case
WSM	Web Service Module

## 1.5 References

The following specified items are contained within the CS4800\_AUDIO\_Module.zip file which can be obtained from the CS4800 Spring 4800 Department Library Software Repository under the Mobile Interview Application Division.

Software Requirements Specification ,Version 2.0, System Analysis Team, December 10, 2021

Technical Design Specifications ,Version 2.0, Development Team, December 10, 2021

Test Case Specification ,Version 2.0, Quality Assurance Team, December 10, 2021

Project Source Code, Version 2.0, Development Team, December 10, 2021

Project Build and Deployment ,Version 2.0, Audio Project Team Lead, December 10, 2021

Project Release Notes ,Version 2.0, Audio Project Team Lead, December 10, 2021

## 1.6 Overview

This subsection of the Release notes follows the RUP Release Notes template supplied by Prof. Zaidi in the DocumentTemplates.zip file.

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## 2. About This Release

This is a brief and condensed version of Release notes because the Class Project: Mobile Interview Application itself is condensed.

## 3. Compatible Products

This product has been tested on the following platforms or with the following products:

- Google Cloud Services
- Google Bucket
- Python

## 4. Upgrades

This is a one-time release. No upgrades are planned.

## 5. New Features

The following new features appear in this release:

- This is the initial release with the following features:
- Obtains an MP4 file from a Cloud Storage Service
- Converts the MP4 to an MP3
- Transcribes the audio to text
- Scores the speaker's (interviewee's) confidence based on text response.
- Packages the transcription and the score into a JSON file.
- Uploads the packaged file to a Cloud Storage Services

## 6. Known Bugs and Limitations

### 6.1 General Note

It has the capability to connect to a database or a server to communicate with other modules/services but is not used. No outside module/service connectivity was declared within a reasonable time period by the Web Services Team. The following modifications were deemed acceptable by the Client, Prof. Zaidi.

- The source file (MP4) must be uploaded to the Audio Module's Google Cloud Storage Service, specifically the Google Storage Bucket CS4800.
- The output file (JSON) is delivered to the Audio Module's Google Cloud Storage Service.

The confidence score was to include pitch analysis of the mp3 file along with 2 other scores. The pitch analysis score was deemed outside the scope of this class and thus omitted with the consent of Prof. Zaidi. The confidence score is based on only two factors:

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- The number of filler words used
- The number of pauses taken

## 6.2 <Defect or Bug>

	Item	Objective	Status
1	UC 1	Access the file from an external site	Won't Be Tested
2	TC 1.0	Tests ability to	Work Around: access local file
3	UC 10.0	Deliver file to an external site	Won't Be Tested
4	TC 6.0	Deliver text file with confidence score	Work Around: deliver locally
5	TC 6.1	Deliver error messages related to delivery of file	Work Around: deliver locally

### Final Comments:

The confidence score was originally to include a numerical value based on the variance of the pitch of in the interviewee's voice. This requirement was retracted the last week of class by the Professor.

The connectivity of the Audio Module was implemented and tested but the final connectivity to the Web Application Service was not implemented nor tested.

As a subproblem for the Web Services Team: At about 10:40am Eastern Time, an Amazon server had problems and took down many of its services. One of which was Amazon Web Services (AWS). This note is included here for future reference as a Lessons Learned only.

<https://www.crn.com/news/cloud/aws-outage-takes-down-several-major-sites-and-services>

<https://www.theverge.com/2021/12/7/22822332/amazon-server-aws-down-disney-plus-ring-outage>

The sample documents provided during the final do not reflect the Document Templates provided during class. The Audio Team followed the Document Templated because they met and exceeded the expectations of the Project Deliverables.