Project AdioLuv

Alex Cox

Neumont University

# Project Success

It is almost impossible to find a sound card audio capture freeware program on the net today. And what freeware you might be able to find, is unstable on the best of days. I’m looking to rectify this situation by creating an open source sound card recording program.

Users will finally have a free alternative to capture audio as it is passing through their sound card. People can use this to record commentary, capture songs streaming through online radio, and much more. Plus there will finally be an easy way for new programmers to get a firsthand look into what it takes to code against a sound card.

# Target Users

The target users for this program will be internet users who frequently listen to streaming music. These users will benefit most from this programs utility, allowing them to capture and store their favorite music, and have a personal copy for themselves, (following strict legal disclaimer of course). The secondary target for this program will be green horn coders like myself, who do not have experience accessing a sound card. They will benefit by having a clear working example, and have more to go off of than some dry, secluded API documentation.

# Project Backlog

1. As a user, I can choose where my capture session is written to. This is so I can organize my files easily.

Acceptance Criteria:

* 1. The user will be able to choose where to save data by typing in the path, or using a drop down selection.

1. As a user, I can set a silence/time threshold where if audio falls below a certain decibel for a certain period of time the capturing session will automatically stop. This is so I can minimize the amount of dead audio at the end of a track.

Acceptance Criteria:

* 1. A saved audio file should end naturally and with little dead time at the end of track.

1. As a user, when my silence/time threshold has ended a session it should also start back up again when audio raises above my silence threshold. This is so I can line up a set of recordings, and have them separated into individual files for me.

Acceptance Criteria:

* 1. The user should be able to set up a list of songs to be streamed, and the program should capture them all as individual files.

1. As a user, I can rename my recording within the program. This is so I minimize the effort of organization.

Acceptance Criteria:

* 1. The user can rename a file without going through their file structure to do so.

1. As a user, I have an easy to use and intuitive interface to use the program. This is so I can quickly achieve my goals using this program.

Acceptance Criteria:

* 1. It is clear how to use/access each piece of functionality listed above.
  2. It looks neat, clean, and professional – production quality.
  3. The user might say: This looks like something I might pay for.

1. As a user, I can run a setup.exe file to install the program. This is so I can easily have access to the program.

Acceptance Criteria:

* 1. User can run a setup.exe and be guided through a setup wizard.

1. As a user, I can also include video capture along with audio capture to produce an mpeg file. This is so I can capture a complete experience from my computer.

Acceptance Criteria:

* 1. An mpeg file will be produced that will represent everything a user has seen and heard on his computer.

1. As a user, I can choose the quality of audio recording. This is so I can choose how much memory makes up a file.

Acceptance Criteria:

* 1. Limiting audio quality will correctly scale down the file.

1. As a user, I can choose to include a browser toolbar in Google Chrome to have access to the program. This is to make it easier as a user to quickly record my media.

Acceptance Criteria:

* 1. A toolbar in Google Chrome will have all program functionality.

# Two Week Plan

Week One

1. As a user, I can manually start and stop a recording session. When stopped, the session will be saved to disk in the area specified. This is so I can enjoy my audio anytime, and in a logical fashion.

Acceptance Criteria:

* 1. The user will be notified that the file was saved, and be able to view it in their file system.

Week Two

1. As a user, I can go to a website to download the program. This is so I can easily get the program.

Acceptance Criteria:

* 1. A simple web service can be accessed to download the program

Between these two pieces of the project, I should have a strong foundation and accomplish the critical sections of the project.