```
1 #include "Mixer.h"
 2
 3 Mixer* Mixer::mixer = NULL;
 4
 5 Mixer::Mixer() {
       for (int i = 0; i < sound_effects.size(); i++) {</pre>
 6
 7
            sound effects[i] = NULL;
 8
 9
       music_channel1 = -1;
10
       music_channel2 = -1;
11 };
12
13 Mixer* Mixer::getInstance() {
14
       if (mixer == NULL) {
15
            mixer = new Mixer();
16
17
       return mixer;
18 };
19
20 void Mixer::play(int sound) {
        if((sound != FIGHTSONG) && (sound != LOBBYSONG))
21
            Mix_PlayChannel(-1, sound_effects[sound], 0);
22
23
   };
24
25
   bool Mixer::loadMedia() {
26
       bool success = true;
27
28
        //Create paths
29
        std::array<std::string, 10> paths = { "assets/sounds/
          bottle_shattering.wav",
                                             "assets/sounds/
30
                       short_swing_motion.wav",
                                             "assets/sounds/hurt.wav",
31
                                             "assets/sounds/sword_drawn1.wav",
32
                                             "assets/sounds/sword_drawn2.wav",
33
                                             "assets/sounds/block.wav",
34
                                             "assets/sounds/jump.wav",
35
                                             "assets/sounds/bg_music.wav",
36
37
                                             "assets/sounds/lobby_song.wav",
38
                                             "assets/sounds/dying.wav" };
39
40
        //Check if the arrays have the same size
        if (paths.size() != sound effects.size()) {
41
            printf("Unable to load sound effects\n");
42
43
            printf("WARNING: mixer::paths.size() != mixer::sound_effects.size() >
              \n");
44
            success = false;
45
        }
46
       else {
47
            //Load Sounds
48
            for (int i = 0; i < paths.size(); i++) {</pre>
                sound_effects[i] = Mix_LoadWAV(paths[i].c_str());
49
50
                if (sound_effects[i] == NULL) {
```

```
51
                    printf("Unable to load sound effect. SDL mixer Error: %s
                      \n", Mix_GetError());
52
                    success = false;
53
                }
54
            }
55
       }
56
57
       music_channel1 = Mix_PlayChannel(-1, sound_effects[FIGHTSONG], -1);
58
       Mix Pause(music channel1);
59
       music_channel2 = Mix_PlayChannel(-1, sound_effects[LOBBYSONG], -1);
60
       return success;
61
   };
62
   void Mixer::playMusic(int music) {
63
64
       if ((music == FIGHTSONG) | (music == LOBBYSONG)) {
            //If already playing and not paused - pause
65
            if ((Mix_Playing(music_channel1) == 1) && (Mix_Paused
66
                                                                                   P
              (music_channel1) == 0)) {
                Mix Pause(music channel1);
67
68
                if (Mix_Paused(music_channel2) == 1) {
69
                    Mix_Resume(music_channel2);
70
                }
71
            }
            //If LOBBYSONG is playing, pause and play MUSIC
72
            else if ((Mix Playing(music channel2) == 1) && (Mix Paused
73
              (music_channel2) == 0)) {
74
                Mix Pause(music channel2);
75
                //If MUSIC is stopped, resume. Else play MUSIC
76
                if (Mix_Paused(music_channel1) == 1) {
77
                    Mix_Resume(music_channel1);
78
                }
79
            }
80
       }
81
   };
82
83 Mixer::~Mixer() {
84
       //Destroy sound effects
       for (int i = 0; i < sound effects.size(); i++) {</pre>
85
86
           Mix_FreeChunk(sound_effects[i]);
87
            sound_effects[i] = NULL;
       }
88
89 }
```