CLAIMS

1. A method for processing a music file, comprising:

acquiring, in response to a received sound effect adjustment instruction, a music file to be adjusted that is instructed by the sound effect adjustment instruction;

extracting a voice and an accompaniment from the music file to obtain voice data and accompaniment data in the music file;

performing a first sound effect processing on the voice data to obtain target voice data, and performing a second sound effect processing on the accompaniment data to obtain target accompaniment data, wherein the performing a second sound effect processing on the accompaniment data to obtain target accompaniment data comprises:

in a case that the accompaniment data comprises the accompaniment data corresponding to a target musical instrument, extracting accompaniment data corresponding to the target musical instrument from the accompaniment data;

acquiring a preset fourth adjustment parameter indicating a playing orientation of the target musical instrument; and

performing, based on the fourth adjustment parameter, the second sound effect processing on the accompaniment data corresponding to the target musical instrument to obtain the target accompaniment data; and

synthesizing the target voice data and the target accompaniment data to obtain a target music file.

2. The method according to claim 1, wherein the performing a first sound effect processing on the voice data to obtain target voice data comprises:

acquiring a rhythm parameter corresponding to the accompaniment data, the rhythm parameter characterizing a rhythm of the music file;

determining a first adjustment parameter corresponding to the rhythm parameter; and

performing, based on the first adjustment parameter, the first sound effect processing on the voice data to obtain the target voice data.

3. The method according to claim 1, wherein the performing a first sound effect processing on the voice data to obtain target voice data comprises:

acquiring a preset second adjustment parameter indicating a target motion trajectory of the voice; and

performing, based on the second adjustment parameter, the first sound effect processing on the voice data to obtain the target voice data.

4. The method according to claim 1, wherein the performing a first sound effect processing on the voice data to obtain target voice data comprises:

determining a motion trajectory of a terminal that plays the music file;

generating a third adjustment parameter based on the motion trajectory of the terminal, wherein a motion trajectory of the voice indicated by the third adjustment parameter is identical to the motion trajectory of the terminal; and

performing, based on the third adjustment parameter, the first sound effect processing on the voice data to obtain the target voice data.

5. The method according to claim 1, wherein the performing a second sound effect processing on the accompaniment data to obtain target accompaniment data comprises:

acquiring a preset accompaniment mode indicating a playback form of the accompaniment data; and

performing, based on the accompaniment mode, the second sound effect processing on the accompaniment data to obtain the target accompaniment data.

~~6. The method according to claim 1, wherein the performing a second sound effect processing on the accompaniment data to obtain target accompaniment data comprises:~~

~~extracting accompaniment data corresponding to a target musical instrument from the accompaniment data in a case that the accompaniment data comprises the accompaniment data corresponding to the target musical instrument;~~

~~acquiring a preset fourth adjustment parameter indicating a playing orientation of the target musical instrument; and~~

~~performing, based on the fourth adjustment parameter, the second sound effect processing~~

~~on the accompaniment data corresponding to the target musical instrument to obtain the target accompaniment data.~~

~~7~~6. The method according to claim 1, further comprising:

acquiring an additional adjustment parameter for the music file comprising at least one of pitch, timbre, loudness, and dynamic range; and

processing at least one of the voice data and the accompaniment data based on the additional adjustment parameter.

~~8~~7. A device for processing a music file, comprising:

an acquisition unit configured to acquire, in response to a received sound effect adjustment instruction, a music file to be adjusted that is instructed by the sound effect adjustment instruction;

a separation unit configured to extract a voice and an accompaniment from the music file to obtain voice data and accompaniment data in the music file;

a processing unit configured to perform a first sound effect processing on the voice data to obtain target voice data, and perform a second sound effect processing on the accompaniment data to obtain target accompaniment data, wherein the performing a second sound effect processing on the accompaniment data to obtain target accompaniment data comprises:

extracting accompaniment data corresponding to a target musical instrument from the accompaniment data in a case that the accompaniment data comprises the accompaniment data corresponding to the target musical instrument;

acquiring a preset fourth adjustment parameter indicating a playing orientation of the target musical instrument; and

performing, based on the fourth adjustment parameter, the second sound effect processing on the accompaniment data corresponding to the target musical instrument to obtain the target accompaniment data; and

a synthesis unit configured to synthesize the target voice data and the target accompaniment data to obtain a target music file.

~~9~~8. The device according to claim ~~8~~7, wherein the processing unit is further configured to:

acquire a rhythm parameter corresponding to the accompaniment data, the rhythm parameter characterizing a rhythm of the music file;

determine a first adjustment parameter corresponding to the rhythm parameter; and

perform, based on the first adjustment parameter, the first sound effect processing on the voice data to obtain the target voice data.

~~10~~9. The device according to claim ~~8~~7, wherein the processing unit is further configured to:

acquire a preset second adjustment parameter indicating a target motion trajectory of the voice; and

perform, based on the second adjustment parameter, the first sound effect processing on the voice data to obtain the target voice data.

~~11~~10. The device according to claim ~~8~~7, wherein the processing unit is further configured to:

determine a motion trajectory of a terminal that plays the music file;

generate a third adjustment parameter based on the motion trajectory of the terminal, wherein a motion trajectory of the voice indicated by the third adjustment parameter is identical to the motion trajectory of the terminal; and

perform, based on the third adjustment parameter, the first sound effect processing on the voice data to obtain the target voice data.

11~~2~~. The device according to claim 7~~8~~, wherein the processing unit is further configured to:

acquire a preset accompaniment mode indicating a playback form of the accompaniment data; and

perform, based on the accompaniment mode, the second sound effect processing on the accompaniment data to obtain the target accompaniment data.

~~13. The device according to claim 8, wherein the processing unit is further configured to:~~

~~extract accompaniment data corresponding to a target musical instrument from the accompaniment data in a case that the accompaniment data comprises the accompaniment data~~

~~corresponding to the target musical instrument;~~

~~acquire a preset fourth adjustment parameter indicating a playing orientation of the target musical instrument; and~~

~~perform, based on the fourth adjustment parameter, the second sound effect processing on the accompaniment data corresponding to the target musical instrument to obtain the target accompaniment data.~~

~~14~~12. The device according to claim ~~8~~7, wherein the processing unit is further configured to:

acquire an additional adjustment parameter for the music file comprising at least one of pitch, timbre, loudness, and dynamic range; and

process at least one of the voice data and the accompaniment data based on the additional adjustment parameter.

~~15~~13. A terminal, comprising:

a memory configured to store executable instructions; and

a processor configured to perform the method for processing a music file according to any one of claims 1 to ~~7~~ 6 when executing the executable instructions stored in the memory.

~~16~~14. A storage medium storing executable instructions, wherein the executable instructions are executed to implement the method for processing a music file according to any one of claims 1 to ~~7~~6.