Software Name:LMMS

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Introduction to LMMS

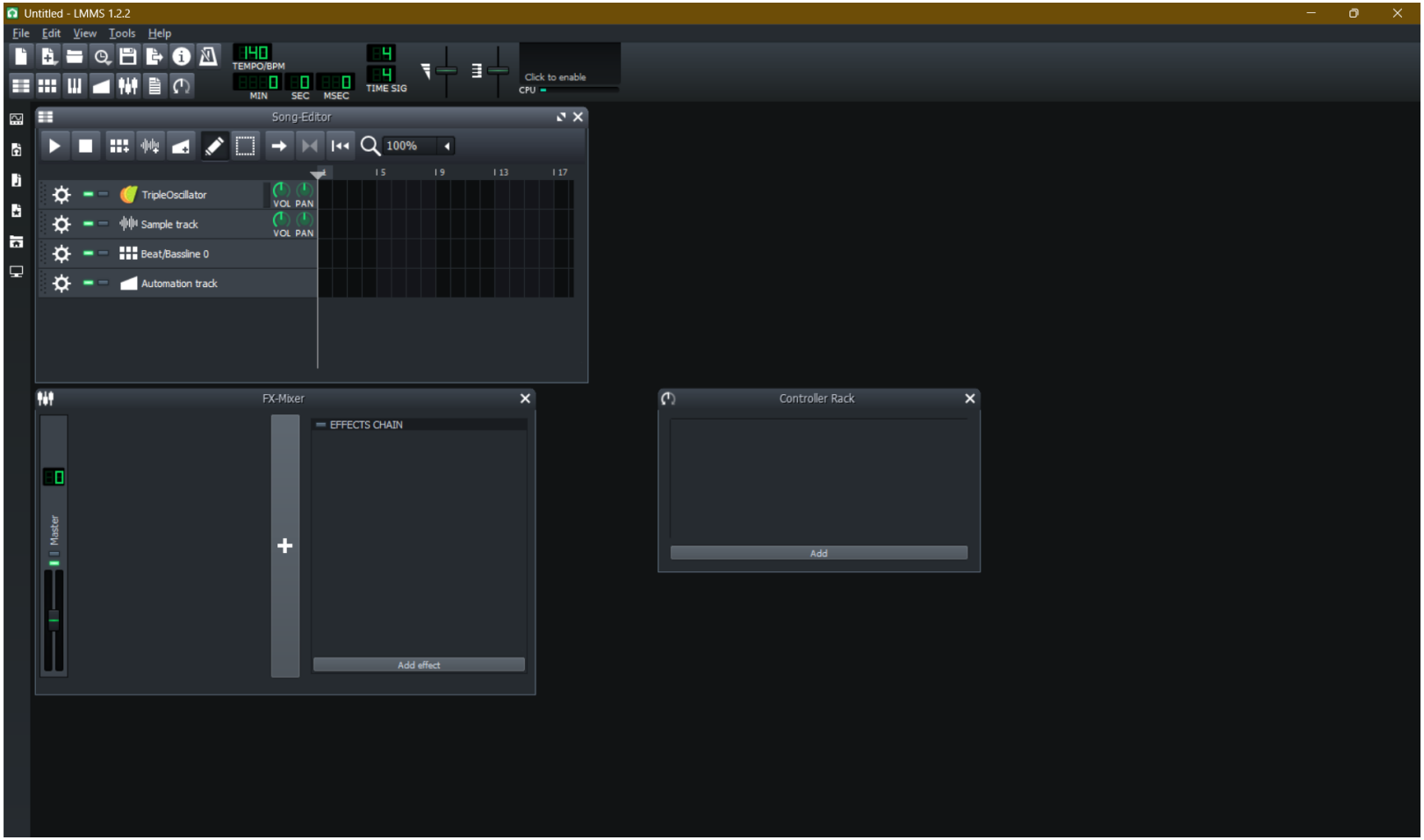
What is LMMS?

- LMMS stands for 'Linux MultiMedia Studio.'
- It is a free and open-source Digital Audio Workstation (DAW).
- Used for creating music, beats, and melodies.

Why Choose LMMS?

- Free and Accessible: No cost barrier to entry.
- Cross-platform: Works on Windows, macOS, and Linux.
- Beginner-Friendly: Excellent for learning the basics of music production.
- Versatile: Supports sound filters, effects, MIDI, and synthesizers.

Homescreen


Untitled - LMMS 1.2.2
File Edit View Tools Help
140
TEMPO/BPM
MIN SEC MSEC
TIME SIG
Click to enable
CPU
Song-Editor
100%
TripleOscillator
Sample track
Beat/Bassline 0
Automation track
VOL PAN
FX-Mixer
Master
EFFECTS CHAIN
Add effect
Controller Rack
Add

Plugin

Untitled* - LMMS 1.2.2
File
Edit
View
Tools
Help
140
TEMPO/BPM
MIN
SEC
Instrument Plugins
Drag an instrument into either the Song-Editor, the Beat+Bassline Editor or into an existing instrument track.
AudioFileProcessor
BitInvader
FreeBoy
GIG Player
Kicker
LB302
Mallets
Monstro
Nescaline

Experimental Task 1:Basic Oscillator (Sine Wave Generator)

Steps:

- Open LMMS and go to Instrument Plugins.
- Add a new plugin (e.g., Triple Oscillator) to your project.
- Open the plugin window → set waveform to Sine.
- Adjust frequency using pitch control knob.
- Change amplitude using volume slider.
- Play notes using the on-screen piano or connected MIDI keyboard.
- Observe real-time sine wave generation in LMMS.

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Kicker
LB302
Mallets
Monstro
Nescaline
OpulenZ
Organic
PatMan
Sf2 Player
sfxr
SID
TripleOscillator
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Vibed
Watsyn
ZynAddSubFX
Song-Editor
100%
TripleOscillator
Sample track
Beat/Bassline 0
Automation track
VOL PAN
TripleOscillator
GENERAL SETTINGS
TripleOscillator
VOL PAN PITCH RANGE FX SAVE
FX
TARGET VOLUME CUTOFF RESO
ENVELOPE
AMT
DEL ATT HOLD DEC SUST REL
LFO
DEL ATT SPD AMT
FREQ x 100
MODULATE ENV-AMOUI
FILTER
LowPass
FREQ RESO
C6 C7 C8
Master
EFFECTS CHAIN
Add effect

Experimental Task 2:

Steps:

- Use the oscillator plugin from Experiment 1 as sound source.
- Go to Effect Plugins in LMMS and choose LADSPA Filters → Low-Pass Filter.
- Connect the oscillator plugin output → filter input.
- Open filter GUI and adjust Cutoff Frequency.
- Play the oscillator sound and lower the cutoff to remove high frequencies.
- Adjust Resonance knob to emphasize cutoff edge.

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