This is an overview of the features of Lightning version 1.1.

Feature requests should be supplied fairly quickly for them to end up in this version.

Delta Time  
All areas of the engine will obey delta time. Any area of the engine that uses frames will use milliseconds (msec) in the future. **This feature will be backported to version 1.0 in the 1.0.1 release.**

**SDL**  
SDL will be updated to version 2.24.0, or whatever the latest version is when 1.1 is released.   
All other SDL dependencies will be updated, as well as functions added to bindings.

New Animation Engine  
Lightning 1.1 will support a new animation engine that will allow developers to animate any visible properties of a Renderable with any cycle.

AnimatedTexture will be rewritten to inherit from Texture.

Cameras  
A new camera type will be added that positions the player at the bottom of the screen.  
Camera shake may be implemented.

Lighting  
Coloured lighting will be implemented.

Splash Screen  
A splash screen will be implemented, using a separate thread.

System Requirements  
An additional metric for enforcing system requirements, **Operating System**, will be used. It will not be supported on Linux.

Text  
SDL2\_ttf will be replaced with custom freetype2 bindings that support caching text glyphs to reduce memory usage, add OTF support and increase performance.

TextureManager  
TextureManager will be overhauled and advanced with various new features:

**Texture Caching**Textures will be cached in order to increase performance and reduce memory usage.  
Any number of textures can refer to the same image.

**New Rendering API**Textures will be plugged into TextureManager, instead of being rendered by the window