

# PINE ENGINE

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The renderer includes a generic backend. This decouples the specific rendering logic from the renderer and enables multiple backends such as OpenGL, Vulkan, WGPU, etc. to be implemented as the underlying backend. This should make the renderer a simple interface for the actual rendering.

## 1 Architecture

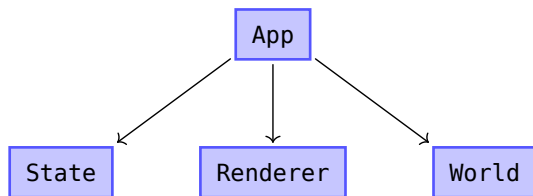


Figure 1: Overview of the engine architecture.

### 1.a Application Context

The application context will hold all necessary components of the application. This includes the application state, the renderer, and the world, wrapping the ECS.

### 1.b Renderer

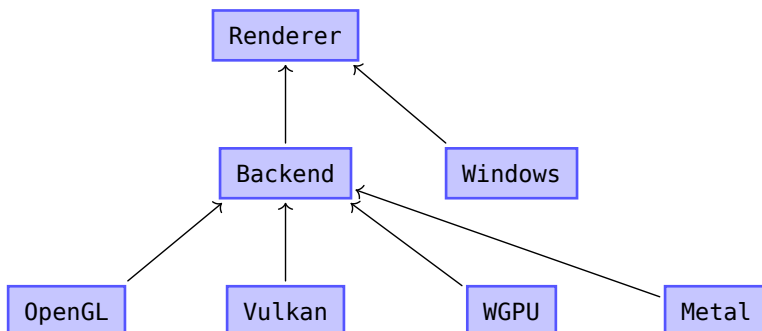


Figure 2: Overview of the renderer.