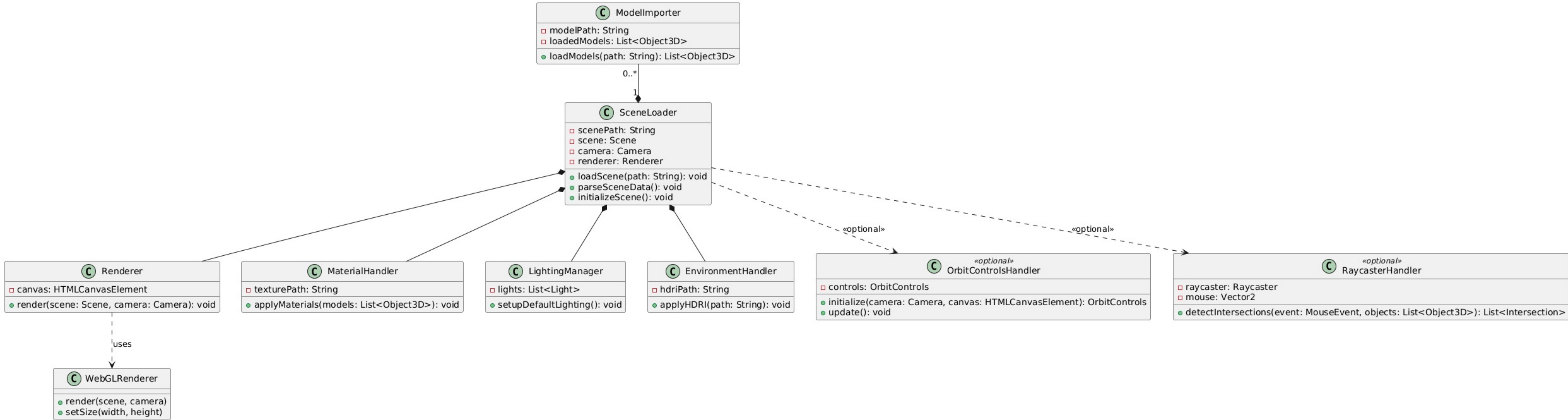
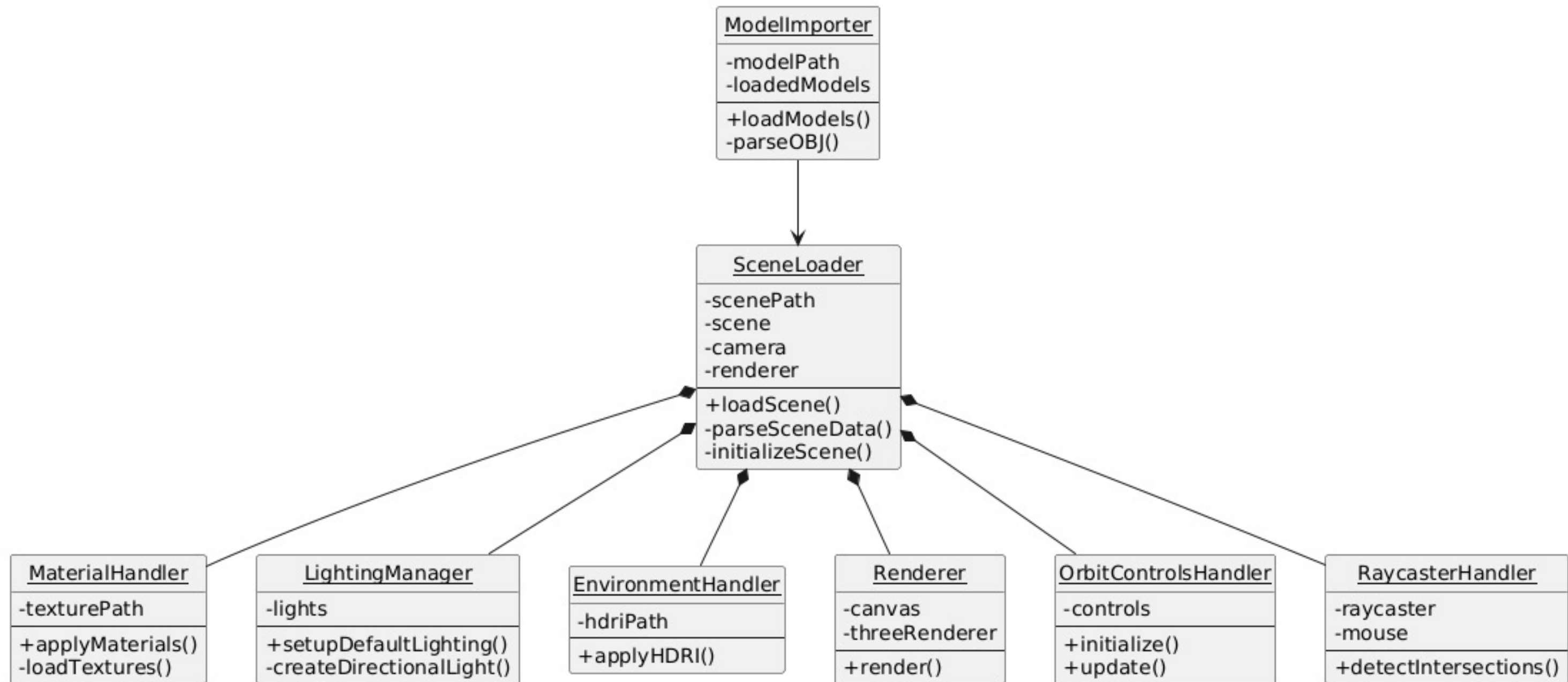


Scene Integration System

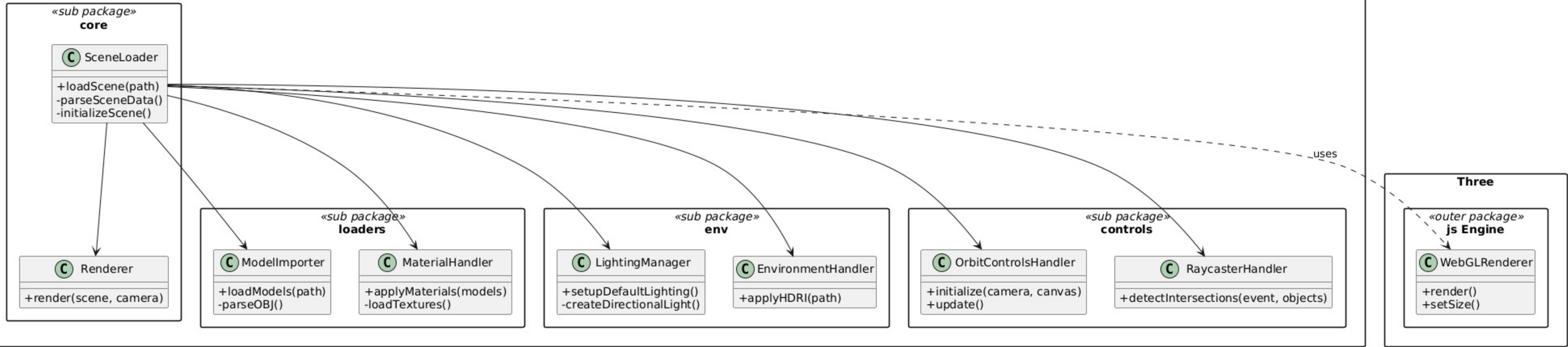


## Object Diagram

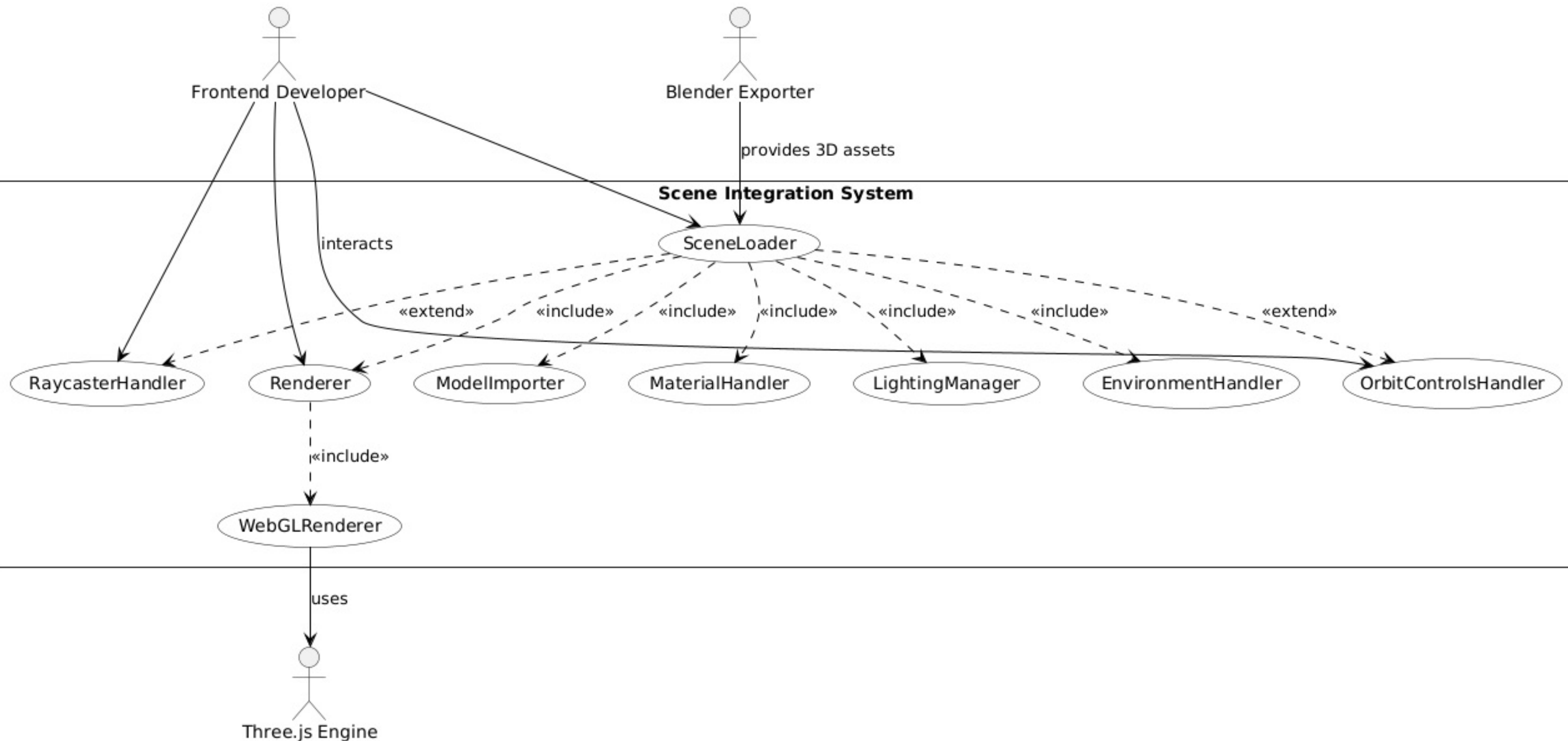


# Package Diagram: Scene Integration System

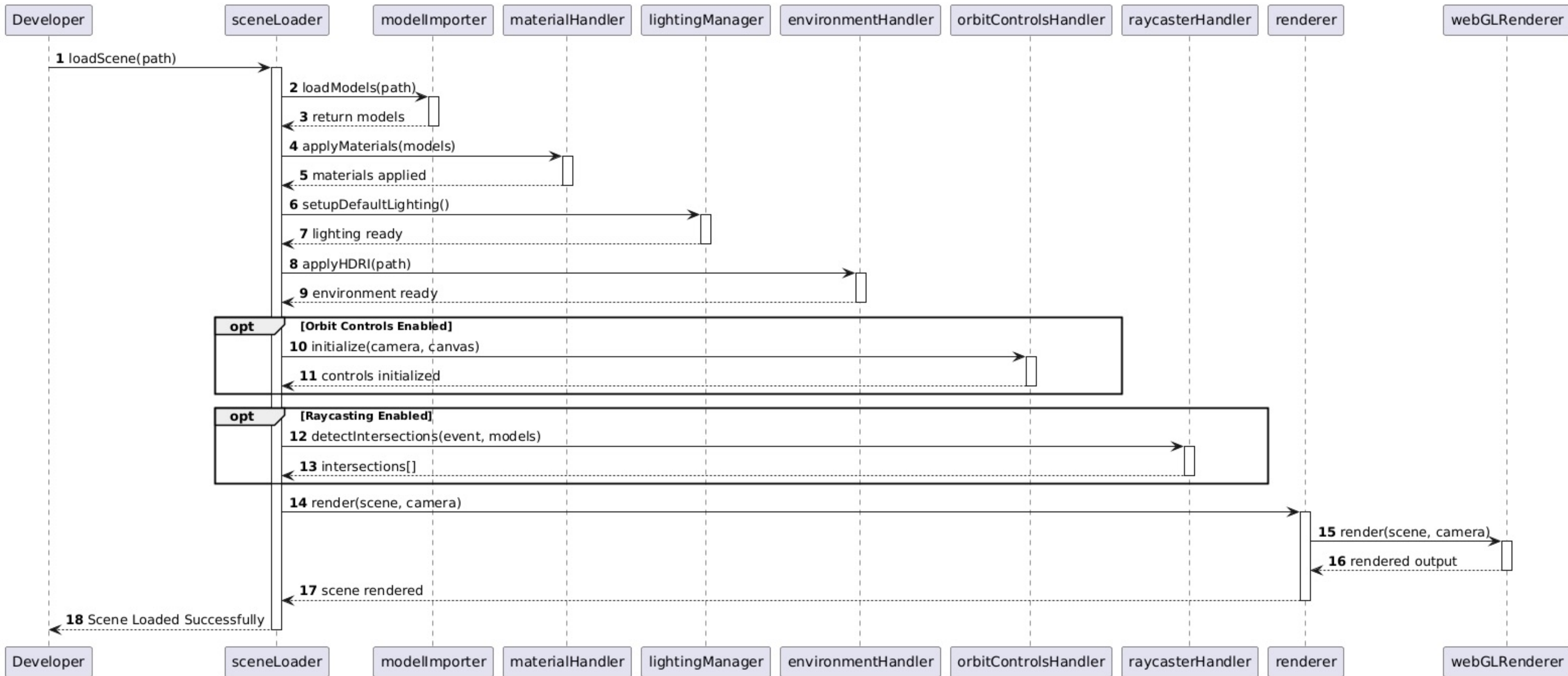
## Scene Integration System



Use Case Diagram: Scene Integration System

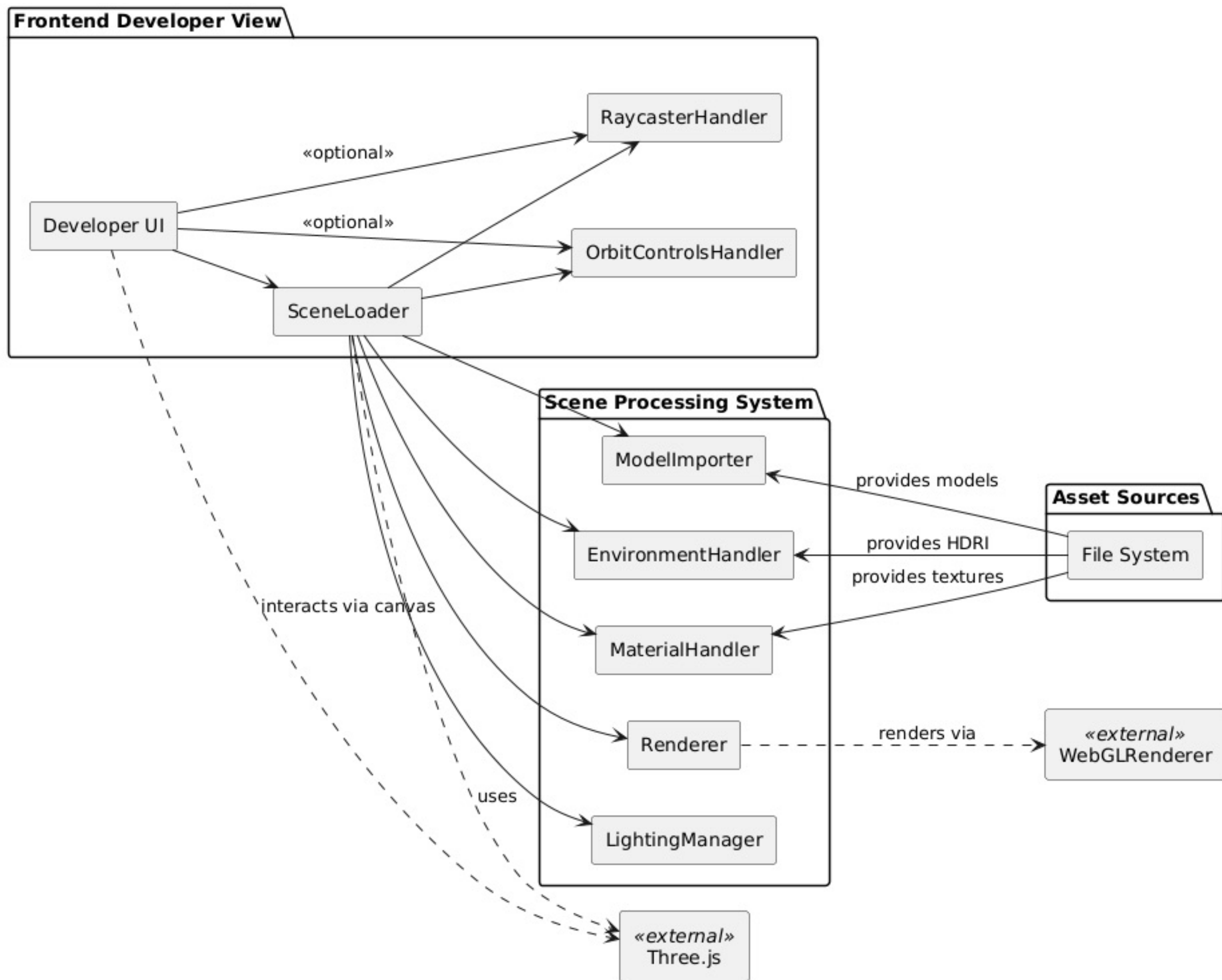


Sequence Diagram: Scene Initialization (with Optional Features)





# Component Diagram: Scene Integration System



## Deployment Diagram: Scene Integration System

### User Device (Browser)

Frontend App

### flow.js Modules

SceneLoader

Renderer

ModelImporter

LightingManager

MaterialHandler

OrbitControlsHandler

RaycasterHandler

EnvironmentHandler

### Three.js Library

WebGLRenderer

### Asset Source / File System

models

textures

hdri

reads

reads

reads

flow.js Modules

SceneLoader

Renderer

ModelImporter

LightingManager

MaterialHandler

OrbitControlsHandler

RaycasterHandler

EnvironmentHandler

### Three.js Library

WebGLRenderer

### Asset Source / File System

models

textures

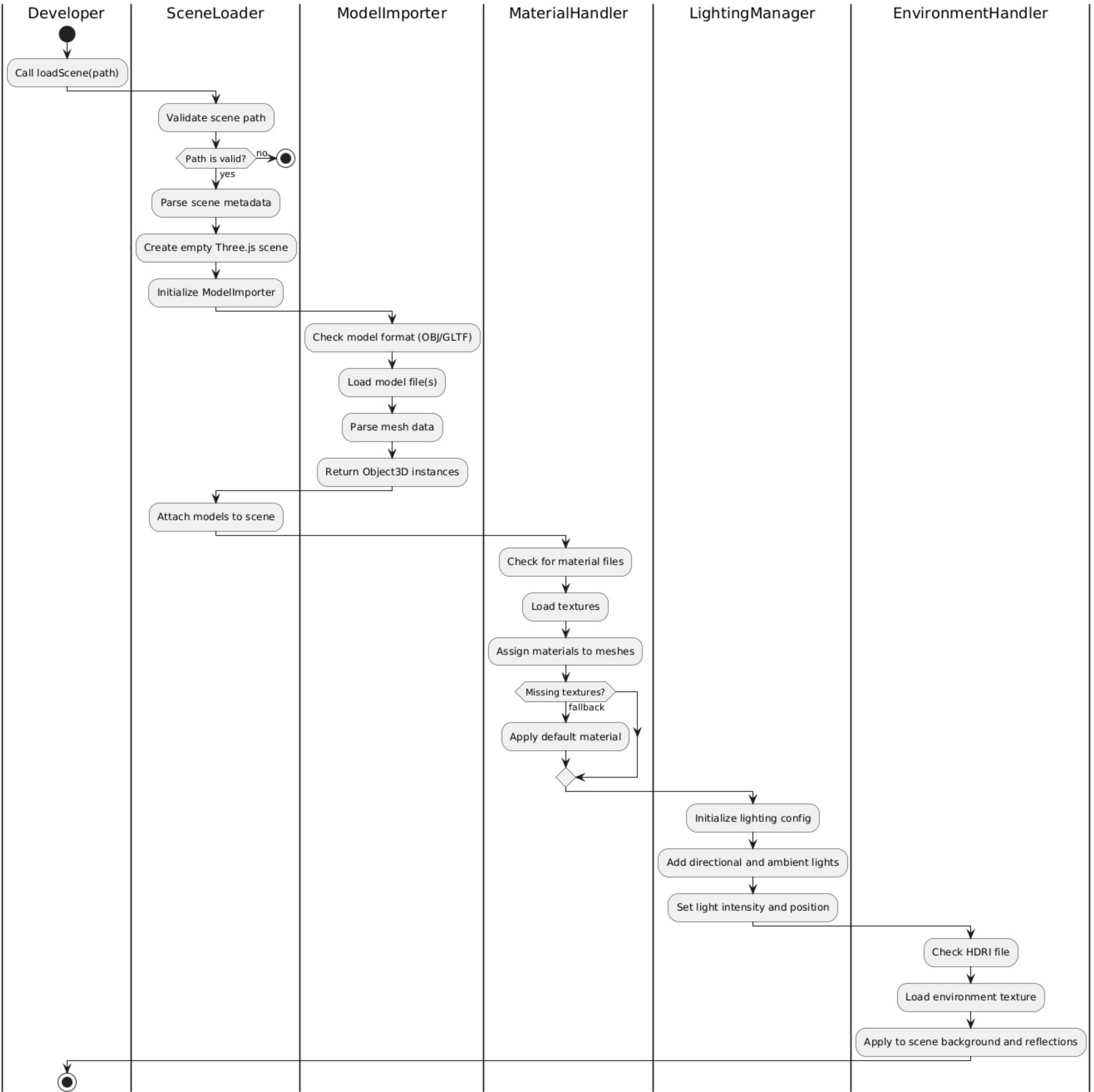
hdri

reads

reads

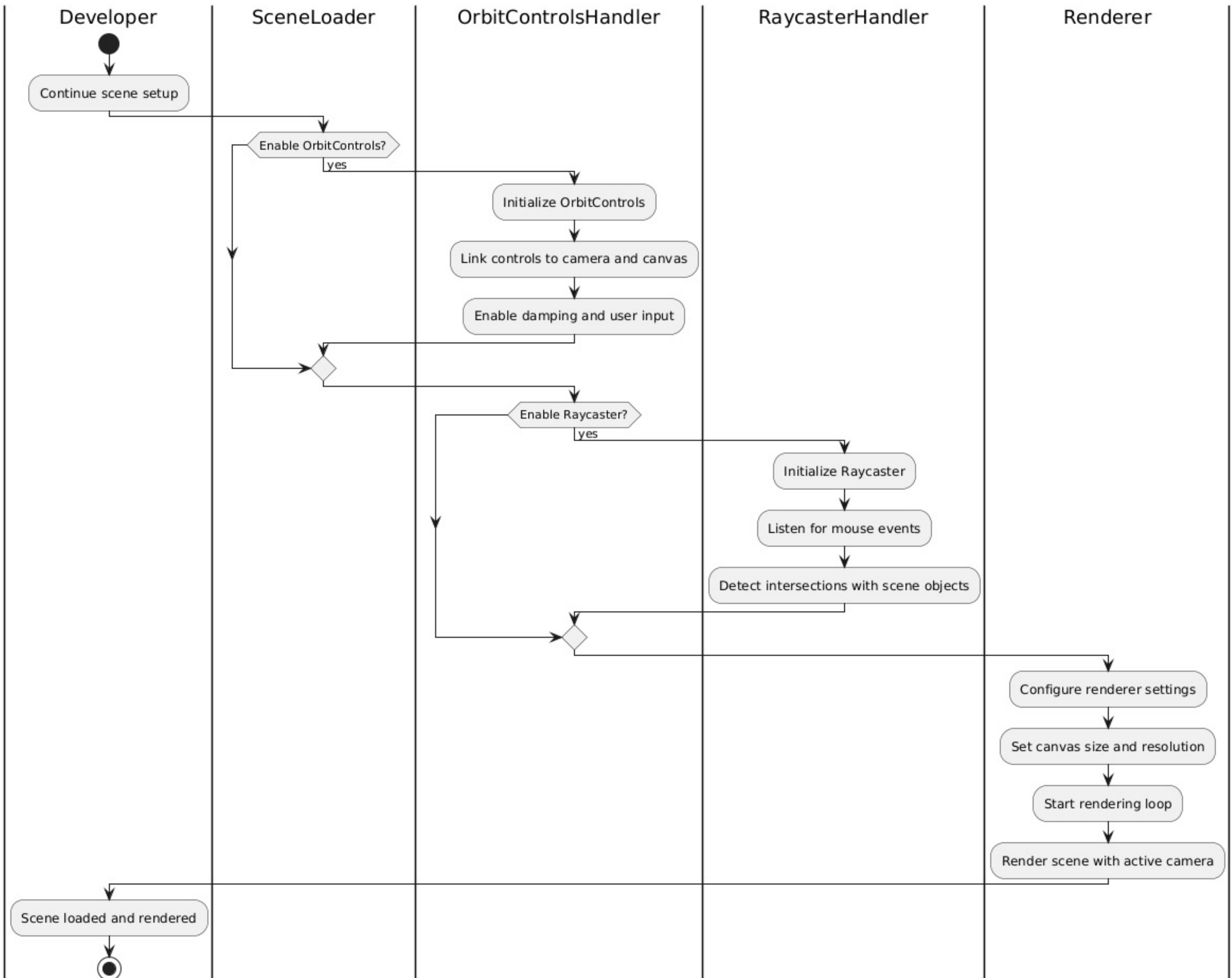
reads

Activity Diagram - Part 1: Scene Setup & Asset Import

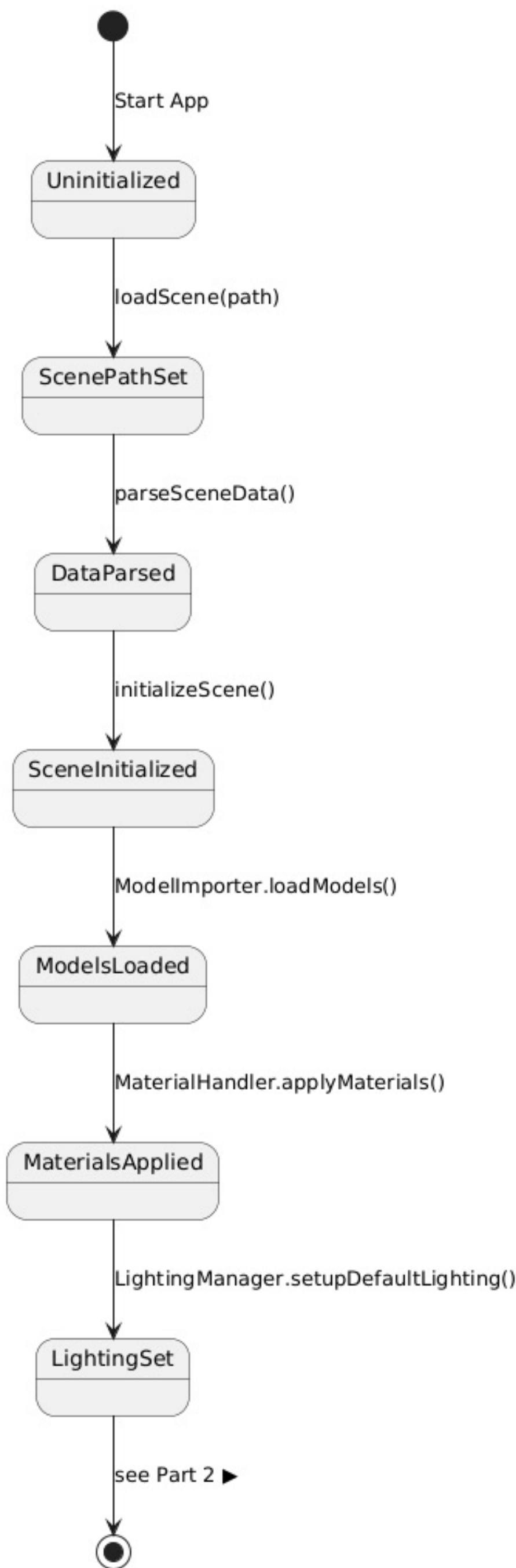




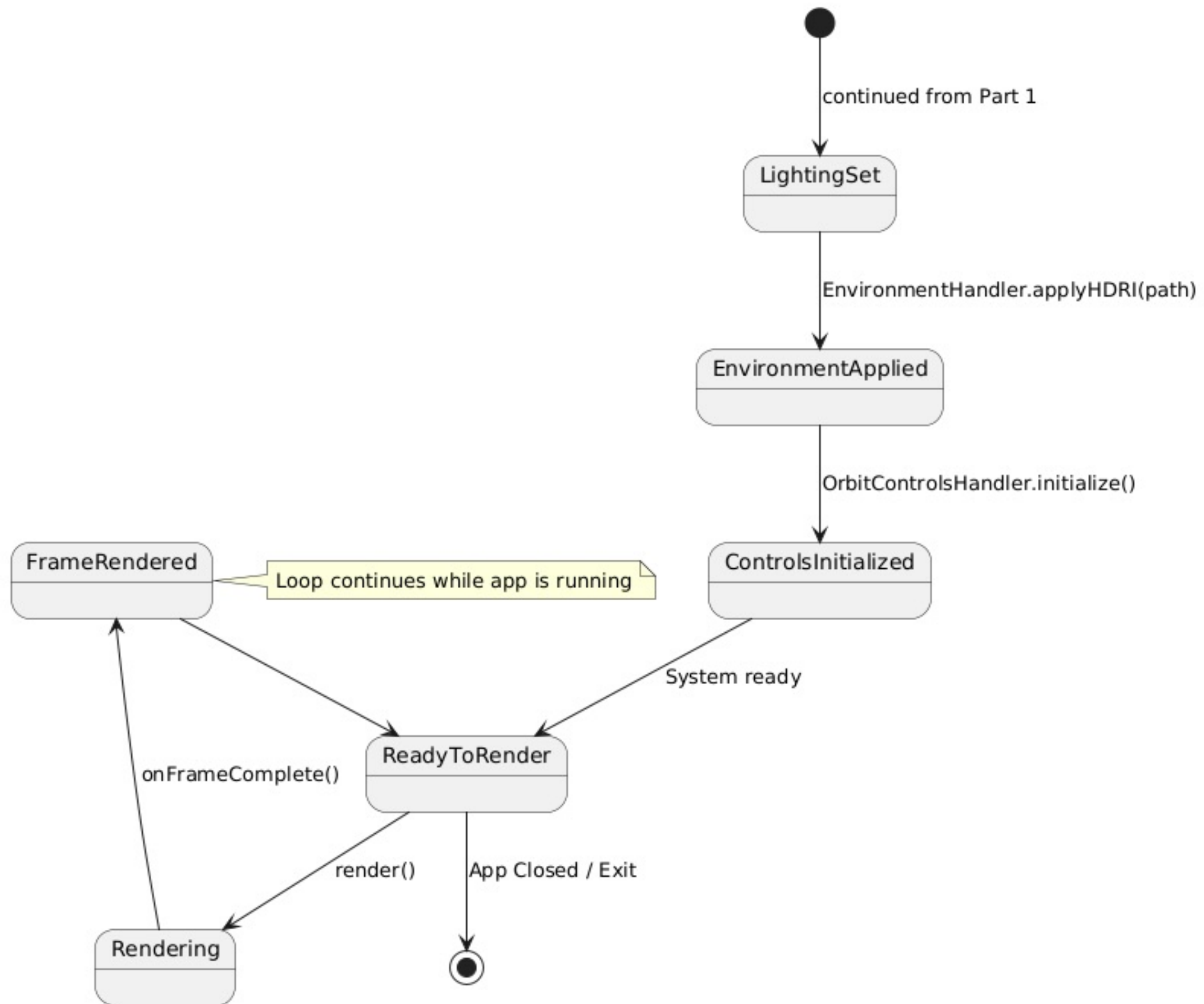
Activity Diagram - Part 2: Optional Features & Rendering



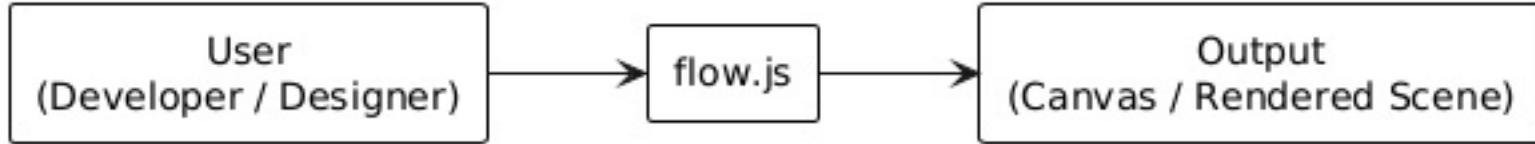
## State Diagram (Part 1): Scene Preparation



## State Diagram (Part 2): Environment and Rendering



## Level 0 DFD - flow.js (Horizontal Layout)



Data Flow Diagram - flow.js (Level 1)

