

## Diagram Documentation

### Primary Use Cases - (Use Case diagram)

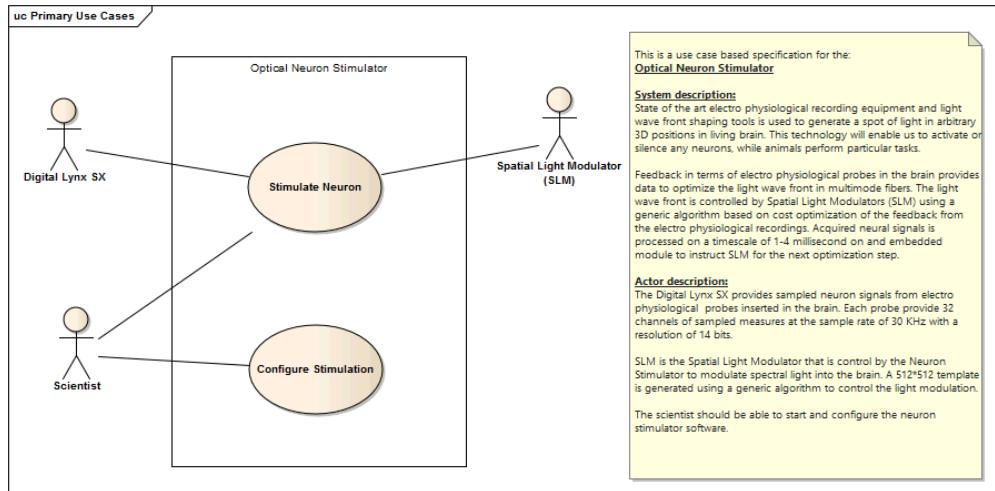


Figure: 1

### Logical View - (Class diagram)

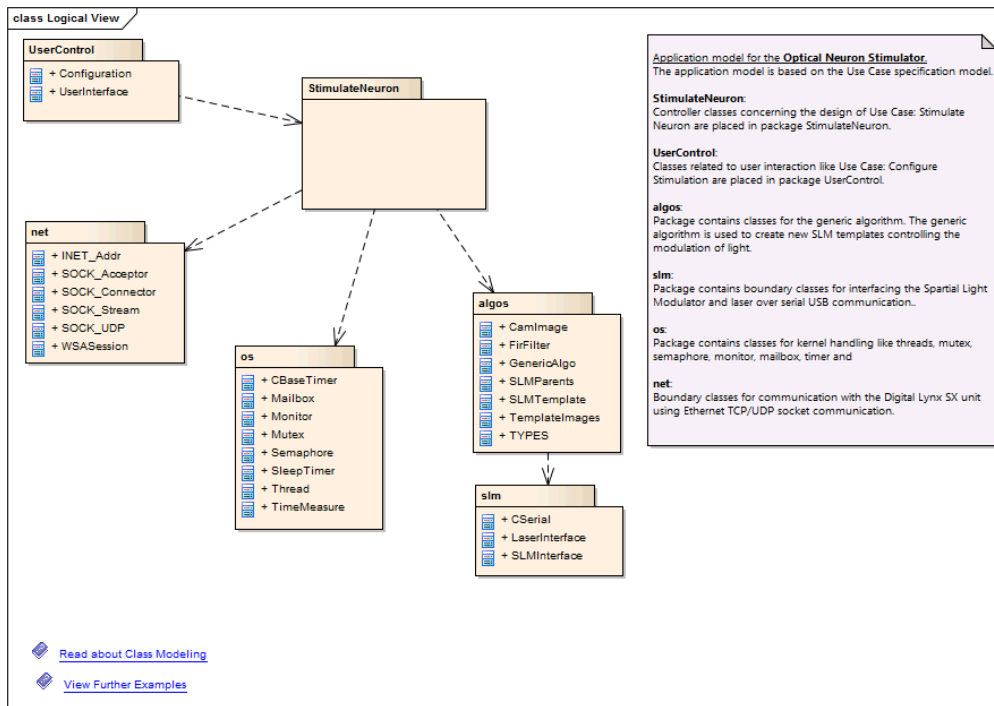


Figure: 2

### Collect and Analyze Neuron Data - (Interaction diagram)

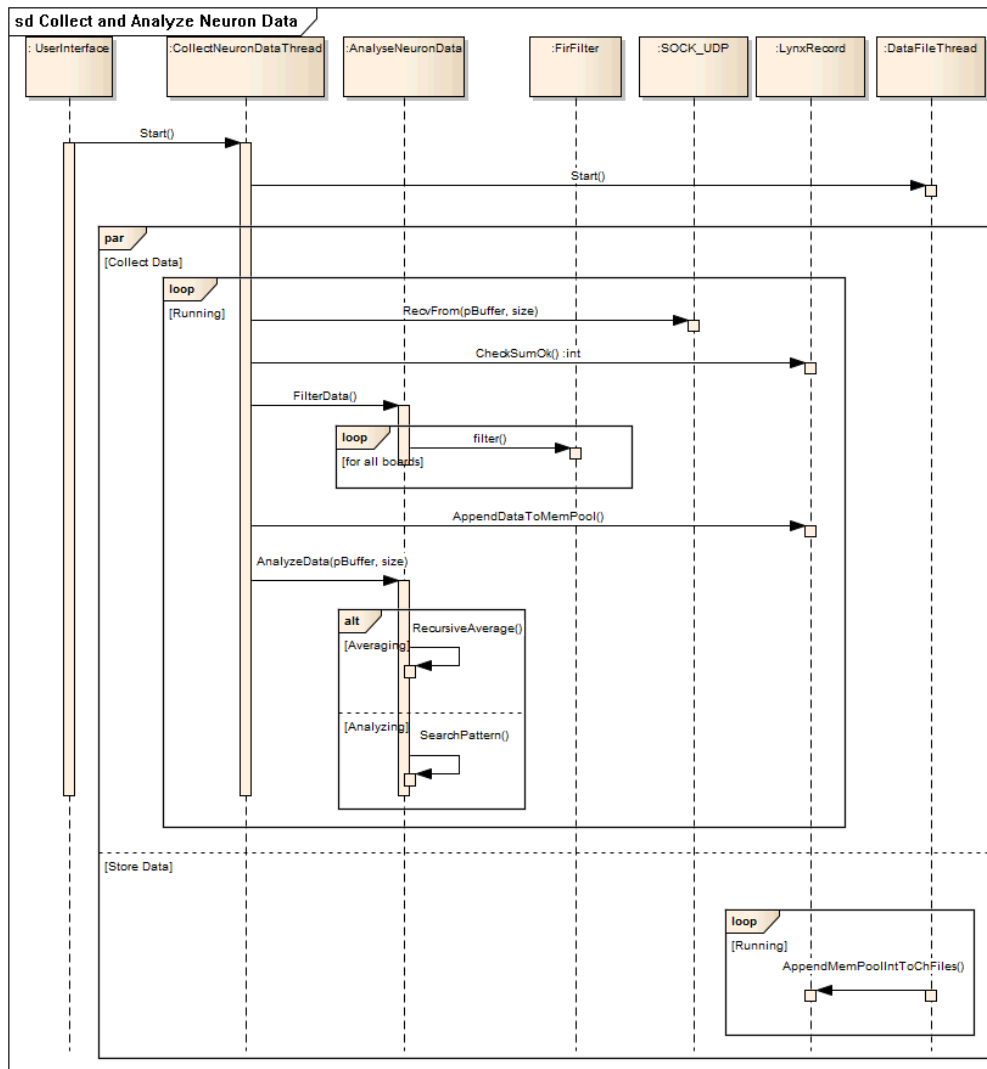


Figure: 3

**Generate Templates and Control SLM - (Interaction diagram)**

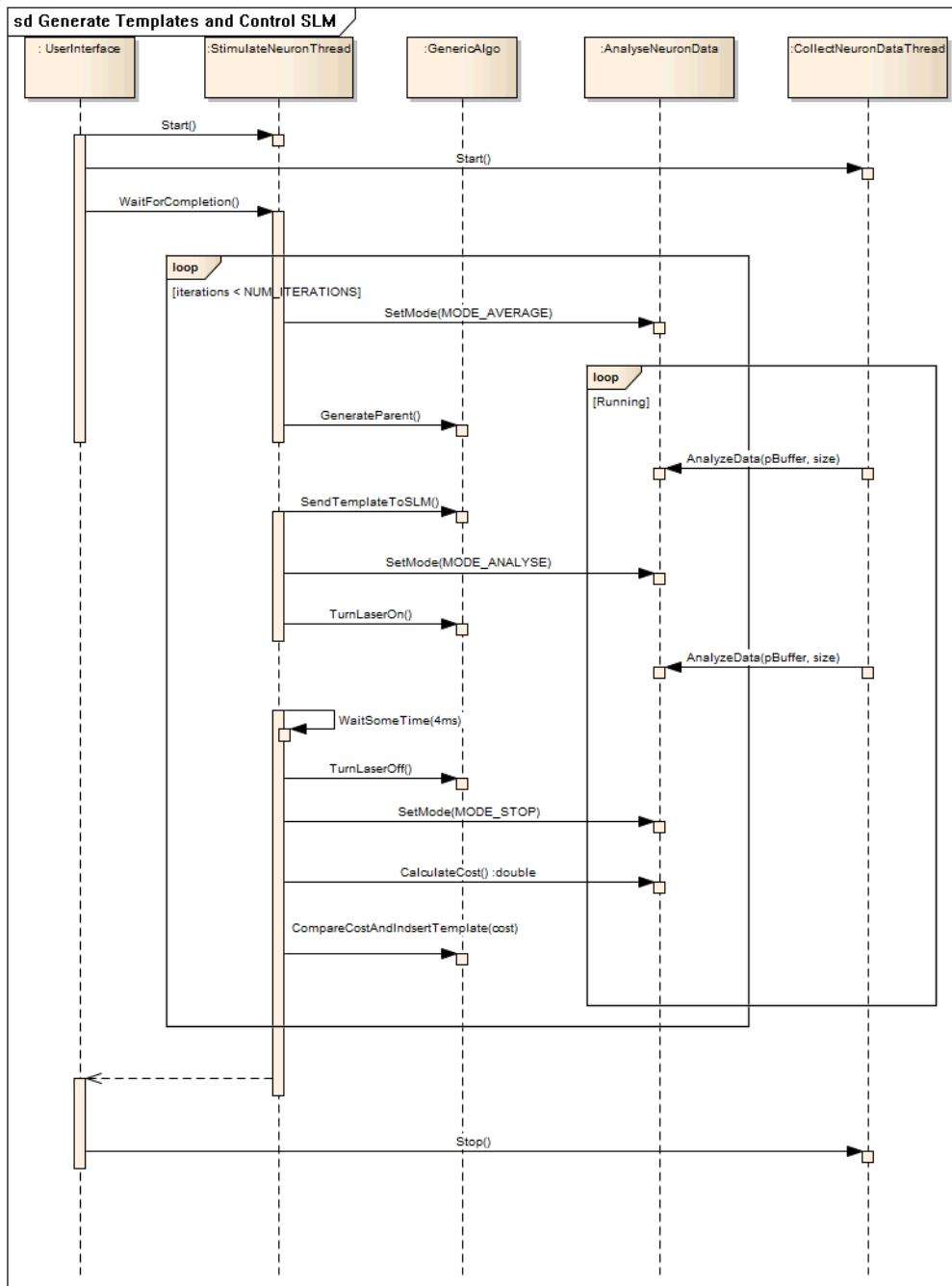


Figure: 4

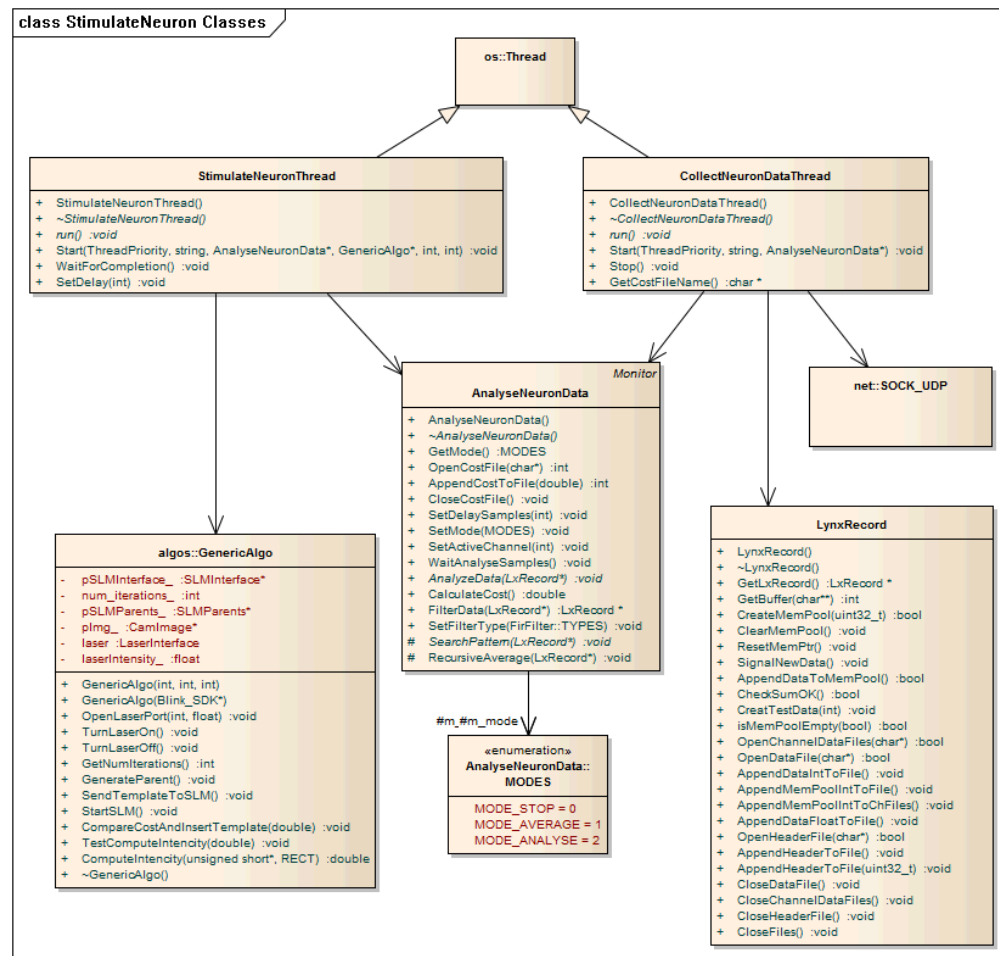
**StimulateNeuron Classes - (Class diagram)**

Figure: 5

**AnalyseNeuronData Class - (Class diagram)**

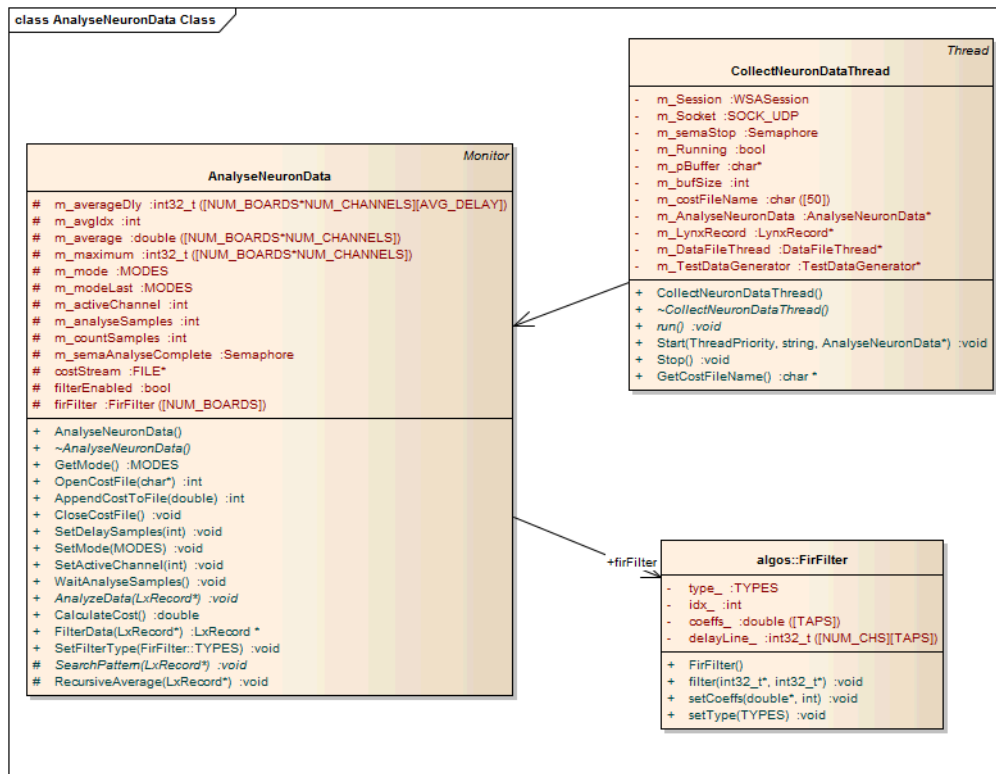


Figure: 6

Neuron Data File Thread - (Class diagram)

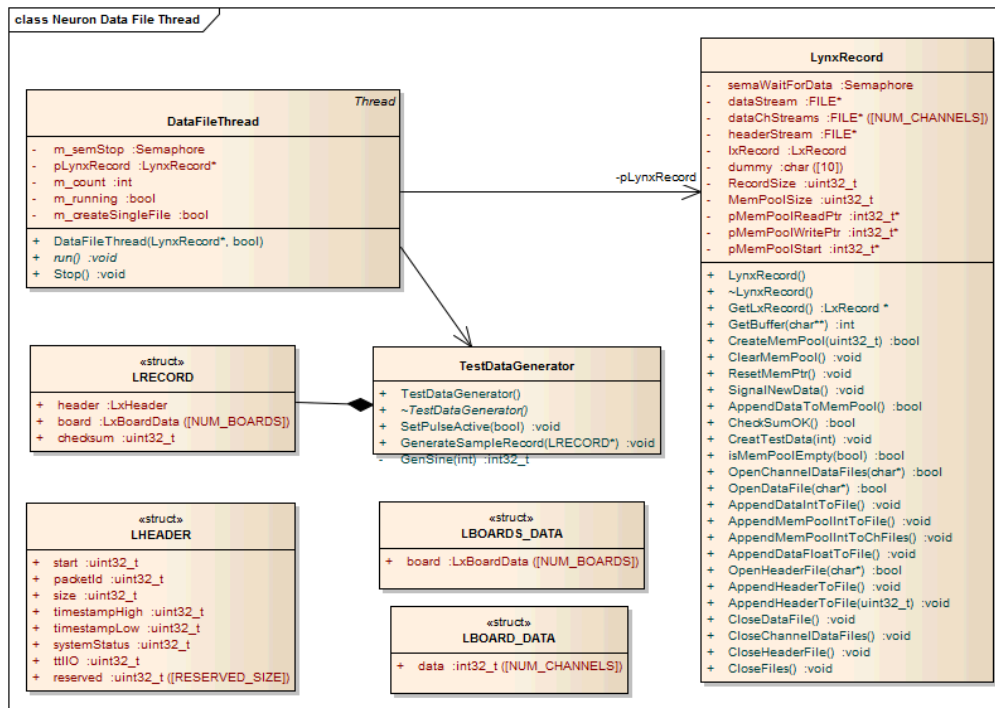


Figure: 7

Stimulate Neuron States - (StateMachine diagram)

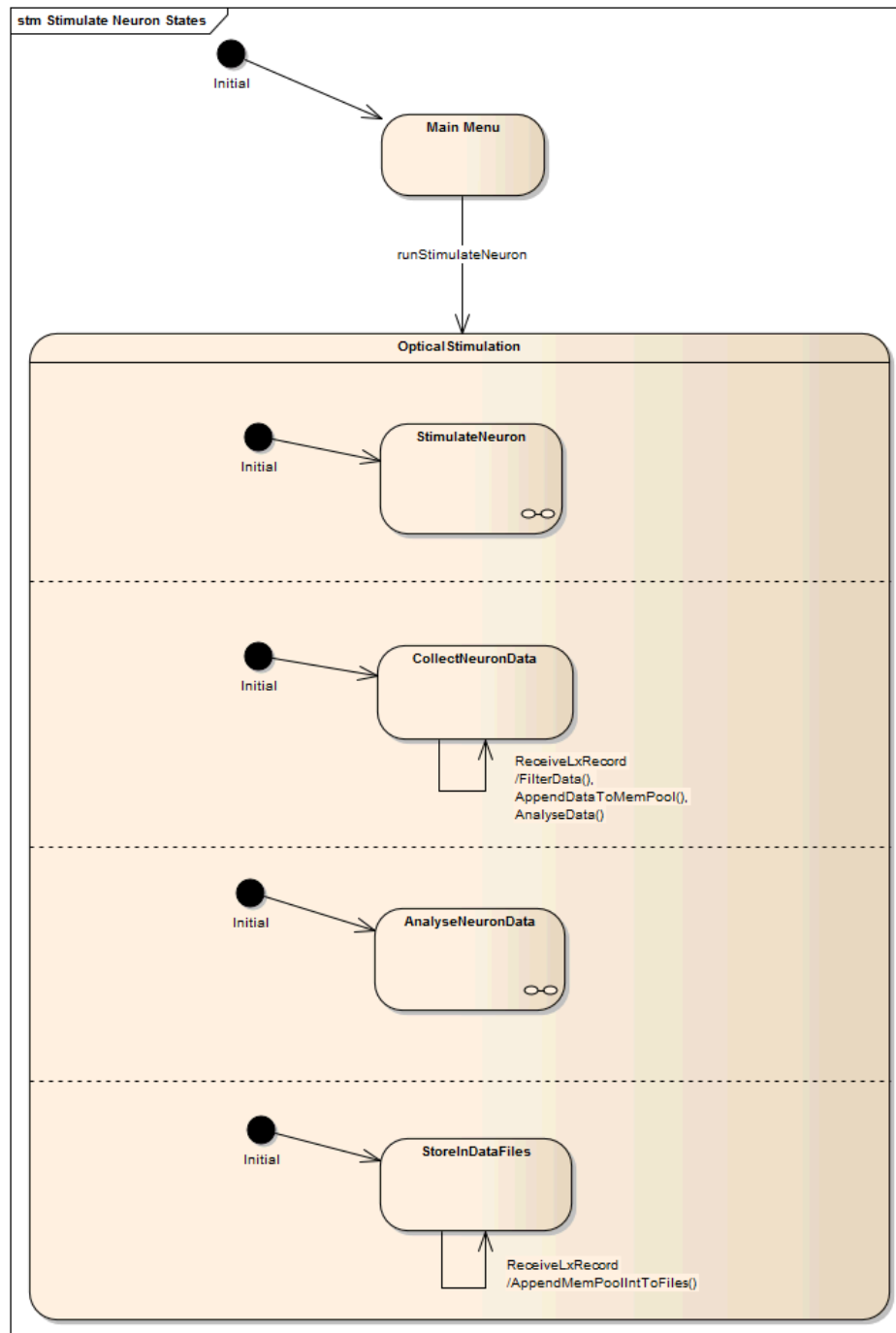




Figure: 8

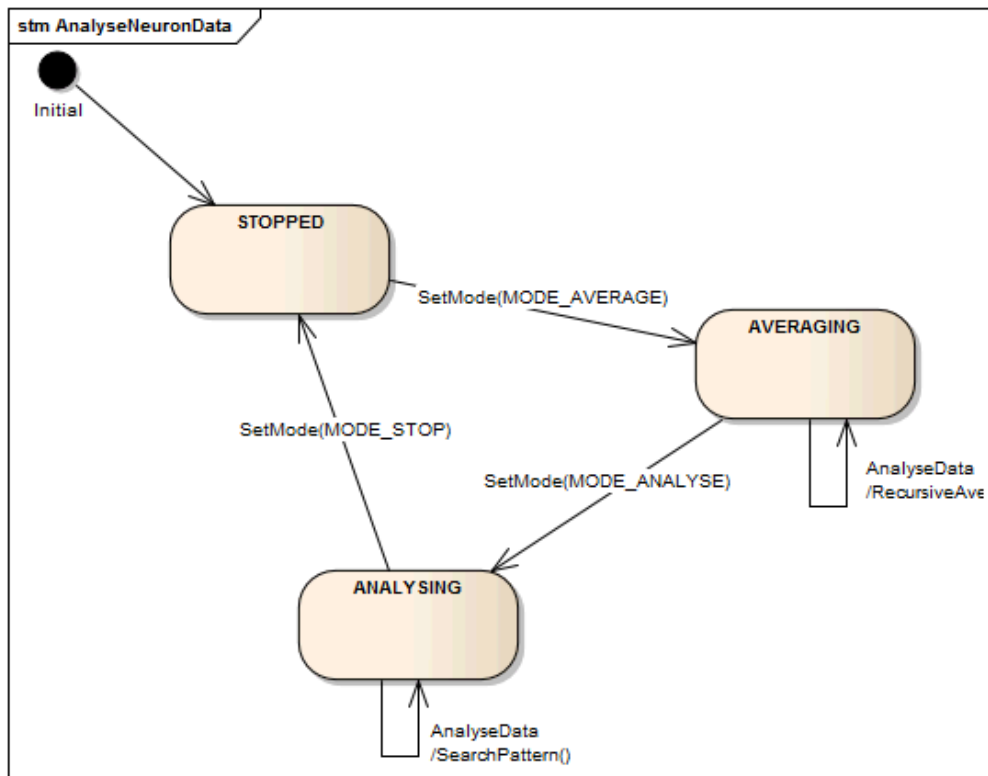
AnalyseNeuronData - (StateMachine diagram)

Figure: 9

StimulateNeuron - (StateMachine diagram)

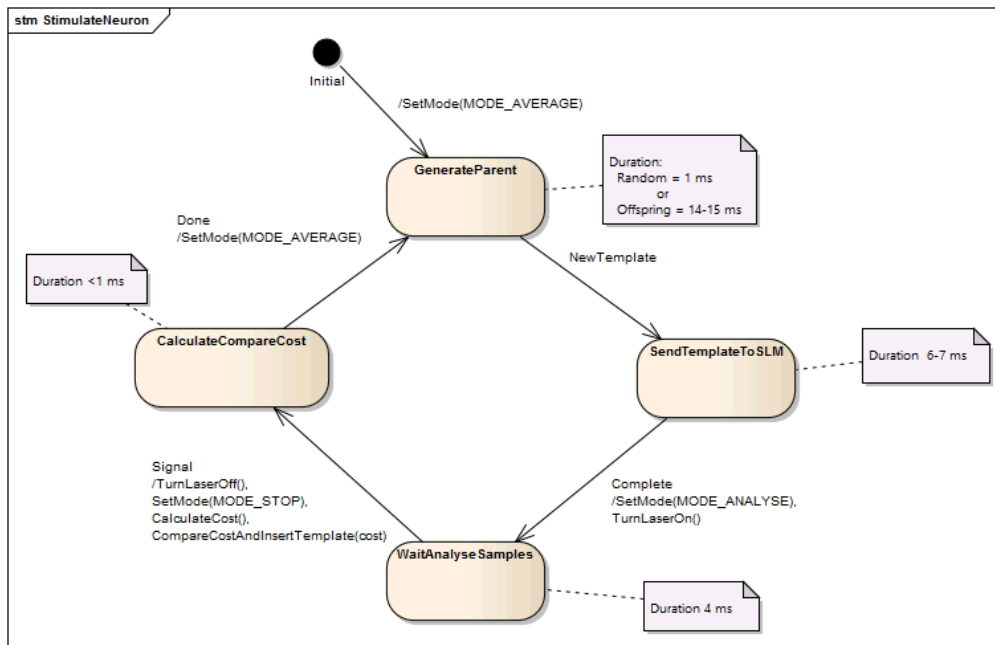


Figure: 10

**UserControl** - (Class diagram)

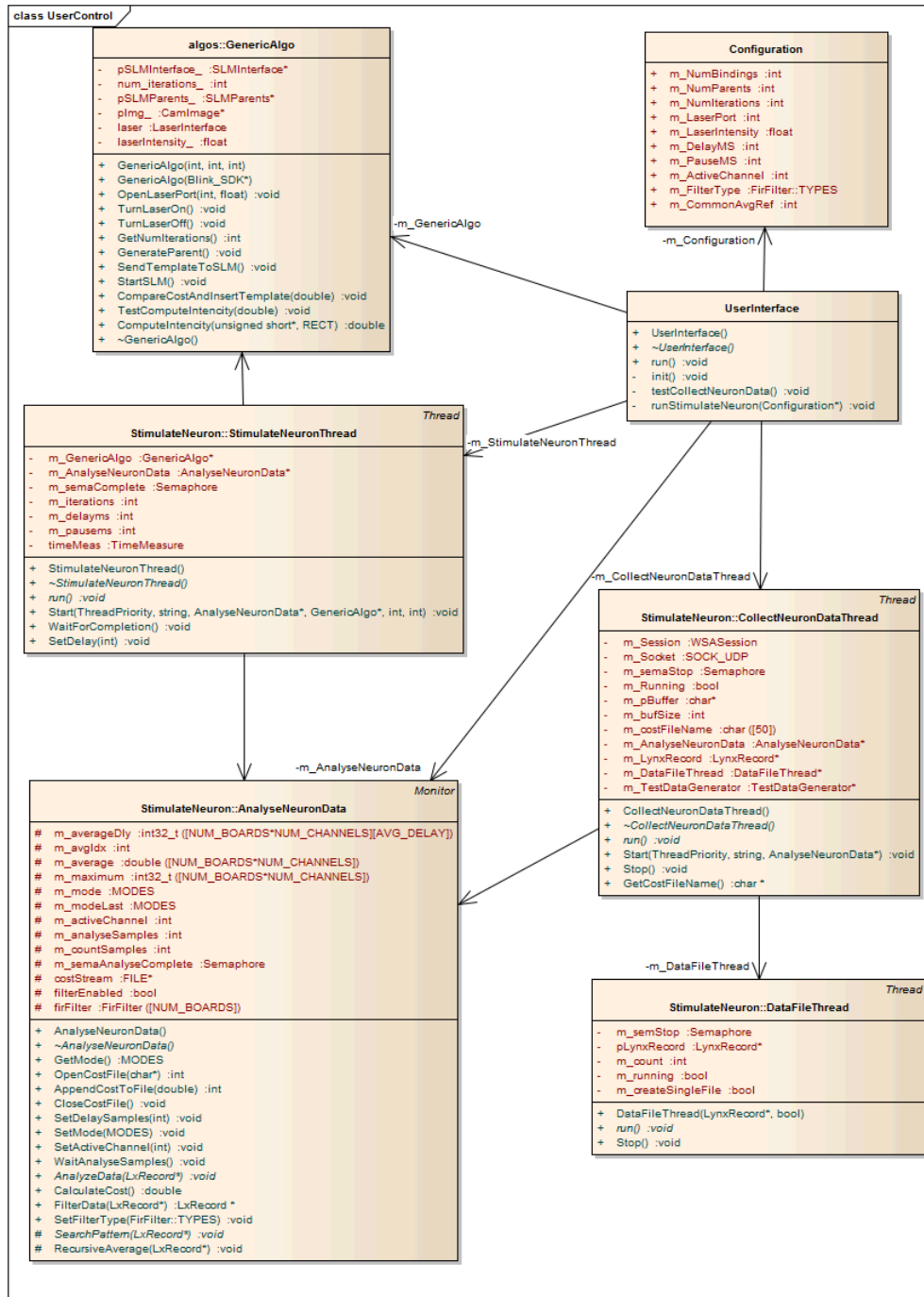


Figure: 11

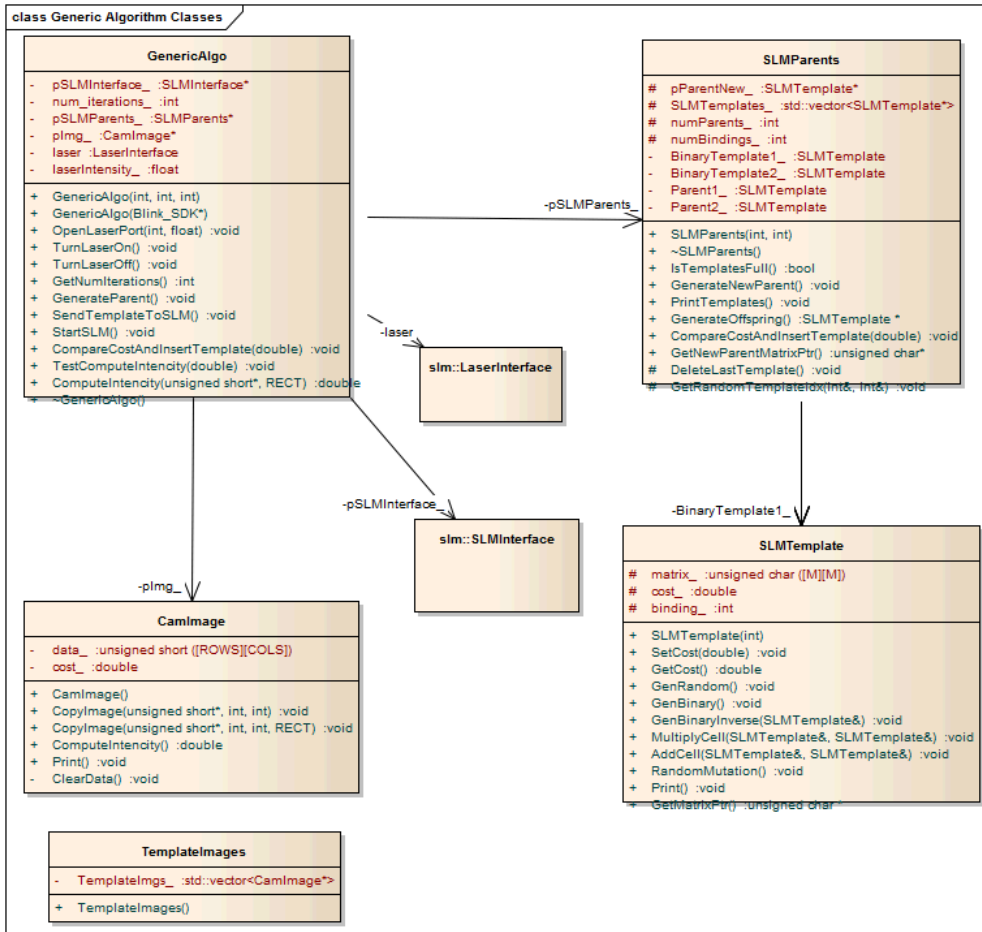
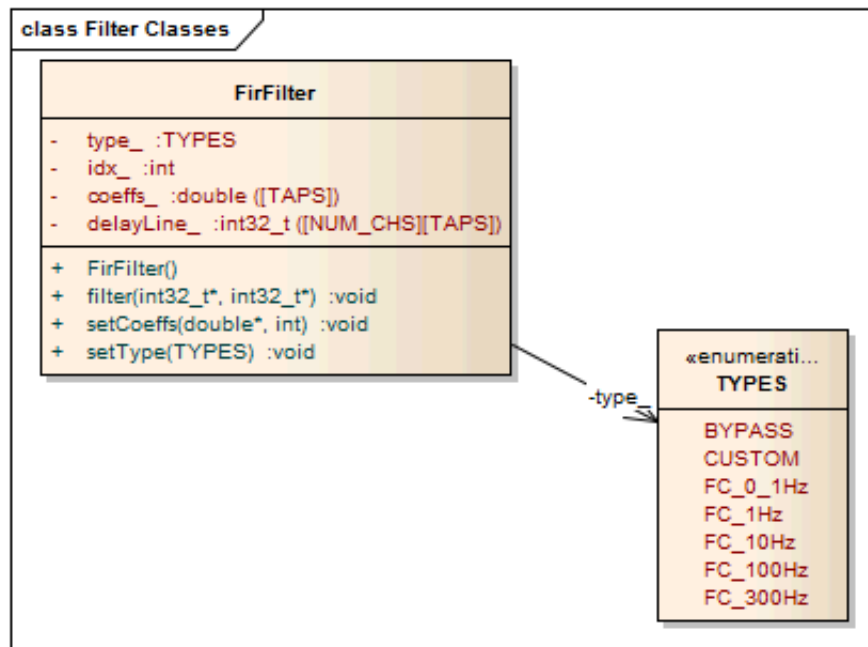
**Generic Algorithm Classes - (Class diagram)**

Figure: 12

**Filter Classes - (Class diagram)**

*Figure: 13*

#### SLM and Laser Interface Classes - (Class diagram)

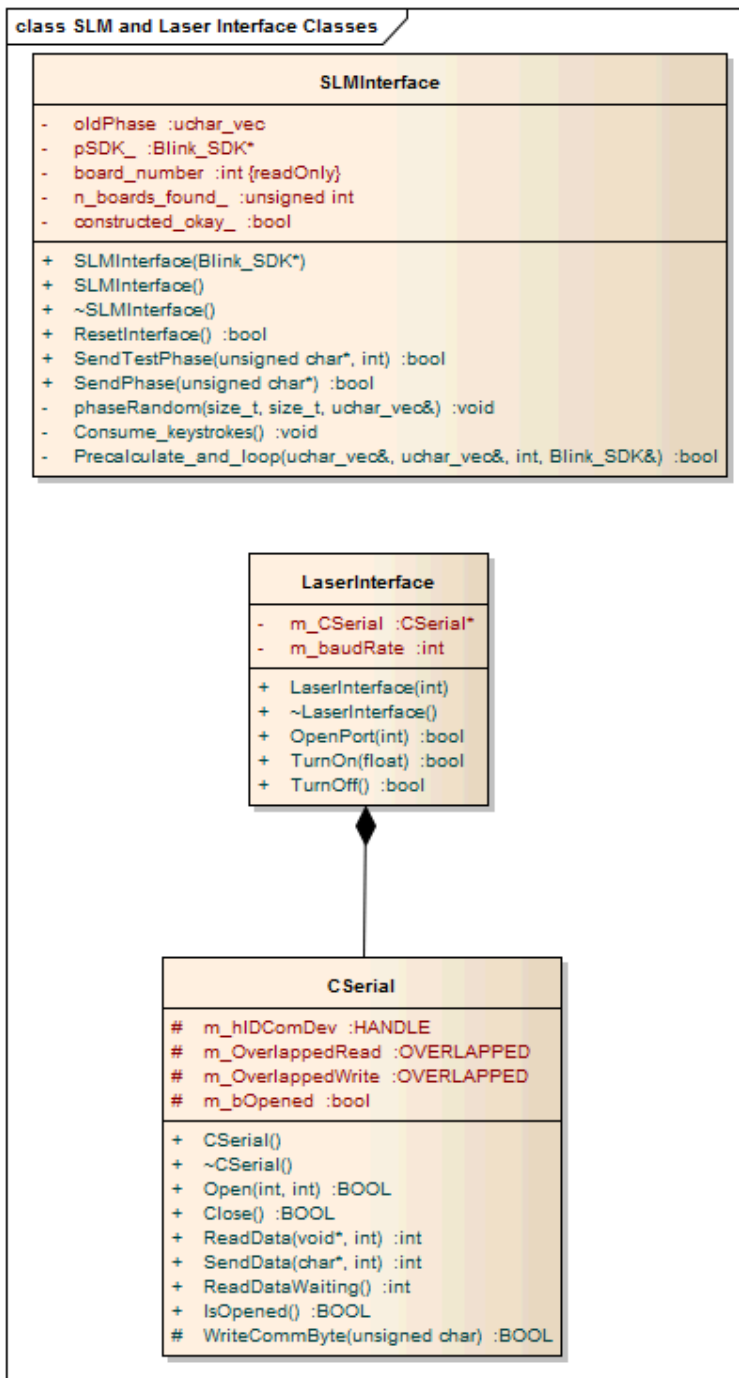


Figure: 14

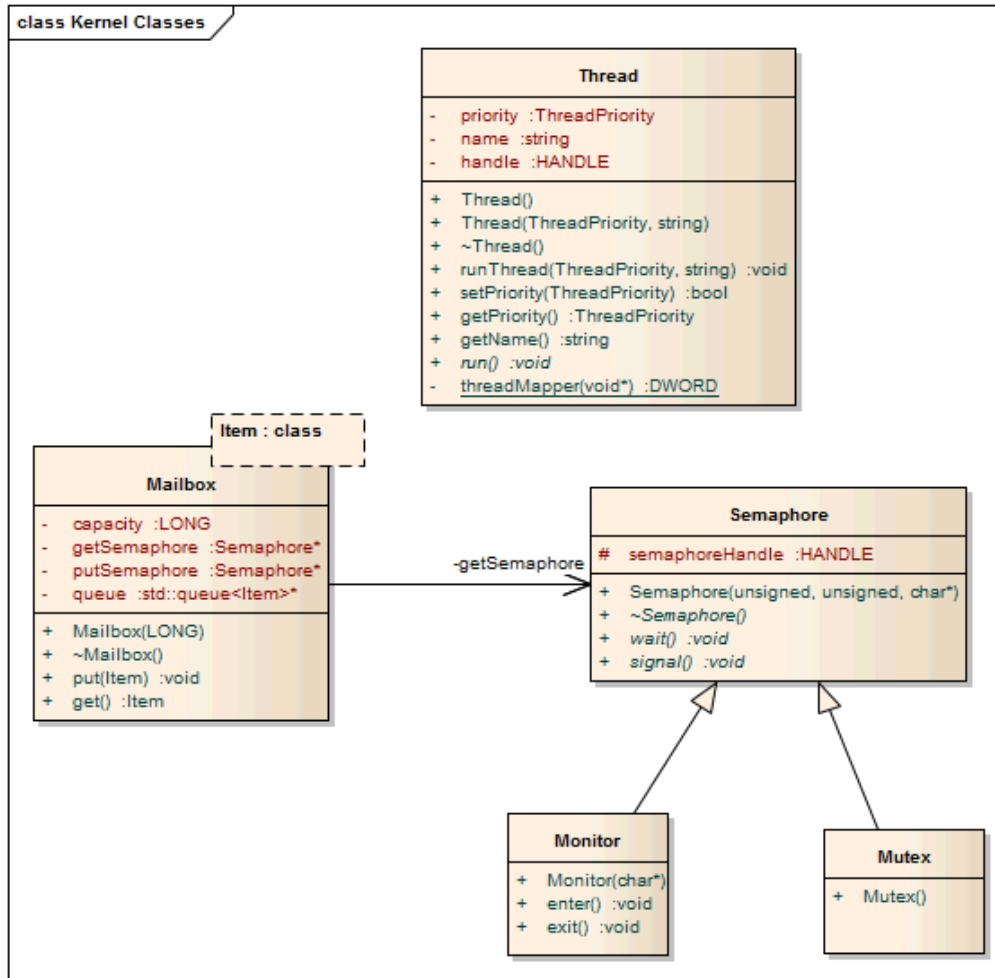
**Kernel Classes** - (Class diagram)

Figure: 15

**Timer Classes** - (Class diagram)

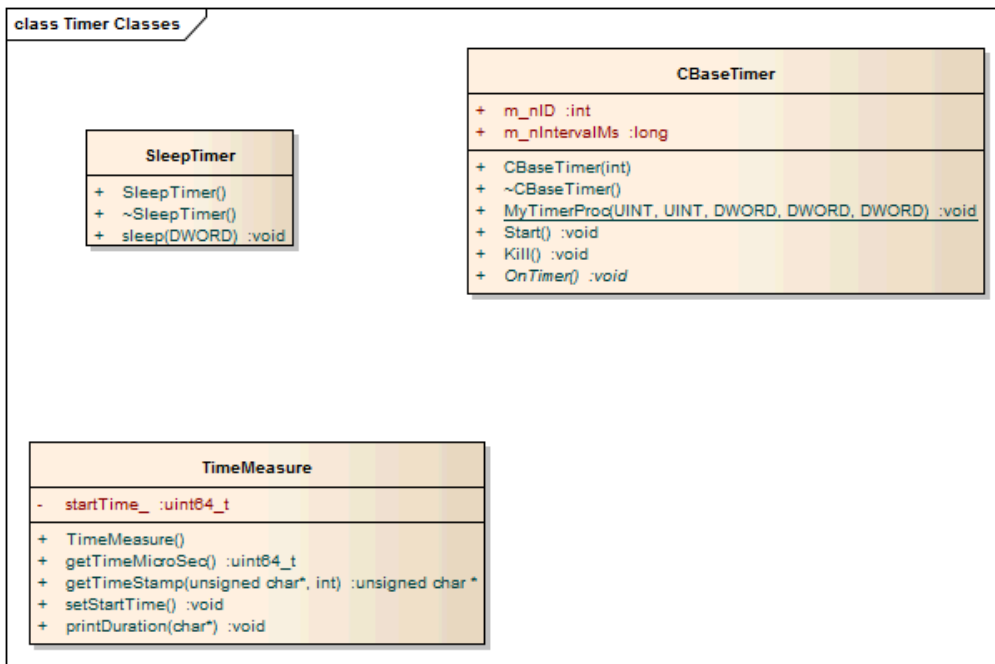


Figure: 16

#### Network Classes - (Class diagram)



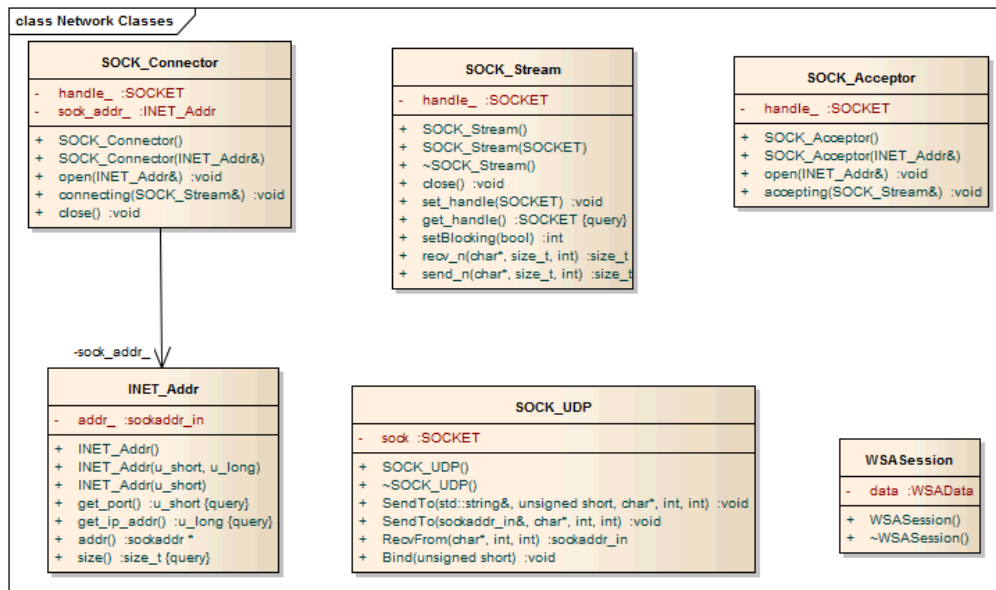


Figure: 17