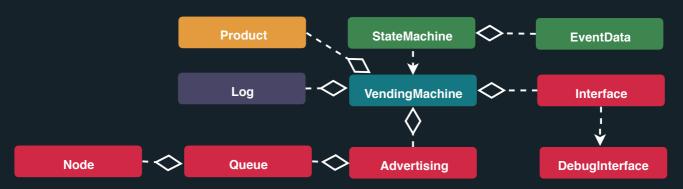
Software Class Diagram





Vending Machine system



Log

public:

+ Level : enum

private:

m_logLevel : Level m_scope: string

public:

- + setLevel(Level) : void
- + setScope(string) : void
- + error(string): void
- + warn(string): void
- + info(string) : void
- + debug(string) : void



Machine Core

VendingMachine

- + m_transactionCash: float
- + m interface : Interface*
- + productDatabase : Product*
- + logVendingMachine : Log

public:

- + cancelEvent(): void
- + cashIncrementEvent(float): void
- + productSelectionEvent(int): void

- + ST_Idle(EventData*) : void
- + ST_Devolution(EventData*): void
- + ST_Validation(VendingMachineData*): void
- + ST_Transaction(VendingMachineData*) : void
- + ST_Deployment(VendingMachineData*): void

EventData

- + field: type
- + method(type): type

StateMachine

protected:

+ currentState : unsigned char

- + m_maxStates : const unsigned char
- + m_eventGenerated : bool
- + m_pEventData : EventData*

protected:

- + externalEvent(char,EventData*) : void
- + internalEvent(char,EventData*): void

private:

+ StateEngine() : void



Interface

DebugInterface

- + field: type
- + method(type): type

Queue

+ m_head : Node*

public:

- + pop() : int
- + push(int): void

Advertising

private:

- + mainQueue : Queue
- + removedQueue: Queue

- + getAdvertising(): string
- + addAdvertising(string) : void
- removeAdvertising(string) : void

Interface

Node

- + m_nodeData : int
- + m_nextNode : Node*

public:

- + getNextNode(): Node*
- + setNodeData(int): void + setNextNode(Node*) : void
- + getNodeData(): int

+printAdvertising(AdvertisingData*): virtual void +insertAdvertising(AdvertisingData*): virtual void

+getSystemInput(SystemData*): virtual void +setSystemOutput(SystemData*): virtual void

+getUserInput(UserData*): virtual void

+setUserOutput(UserData*): virtual void

System Management

Product

. +ProductID: enum

- + m_name : string + m_value : float

+ setId(ProductID): void

- + getValue() : float

- + setValue(float) : void + setStock(int) : void
- + getProductDatabase(vector): void