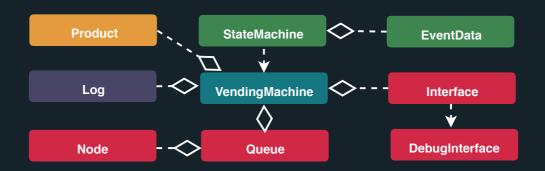
Software Class Diagram

System classes and their relations





Vending Machine system



Log

public:

+ Level: enum

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

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

private:

- + ST_ldle(EventData*) : void
- + ST_Devolution(EventData*) : void + ST_Validation(VendingMachineData*) : void
- _Transaction(VendingMachineData*): void + ST_Deployment(VendingMachineData*): void

EventData

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

StateMachine

+ currentState : unsigned char

private:

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

protected:

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

private:

+ StateEngine(): void

DebugInterface

+ field: type

Interface

+getSystemInput(SystemData*): virtual void

+getUserInput(UserData*): virtual void +setUserOutput(UserData*): virtual void

+setSystemOutput(SystemData*): virtual void

+printAdvertising(AdvertisingData*): virtual void

+insertAdvertising(AdvertisingData*): virtual void

+ method(type): type

Queue

- private:
- + m_head : Node*

public:

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

System Management

Product

. +ProductID: enum

- + getNodeData(): int
- + setNodeData(int): void

Node

private:

- + m_nodeData : int
- + m_nextNode : Node*

- + getNextNode() : Node*
- setNextNode(Node*): void

- + getName() : string

- + setStock(int) : void + getProductDatabase(vector) : void
- + setProductDatabase(Product*,vector): void

Interface

public: