

Widgets And Gadgets



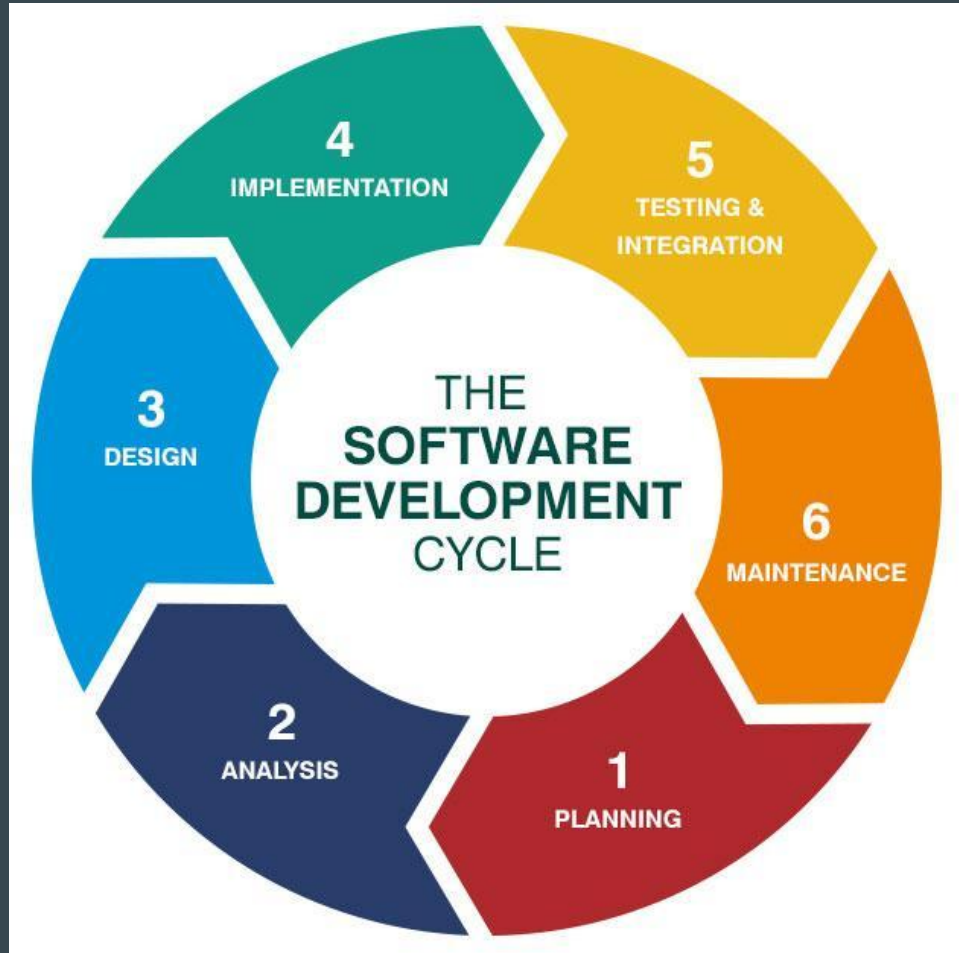
WAG Corporation Software Demo

Presented by:
Nathan Thomas
Paul Nelson
Chris Roberts

Planning

- Software Development Lifecycle

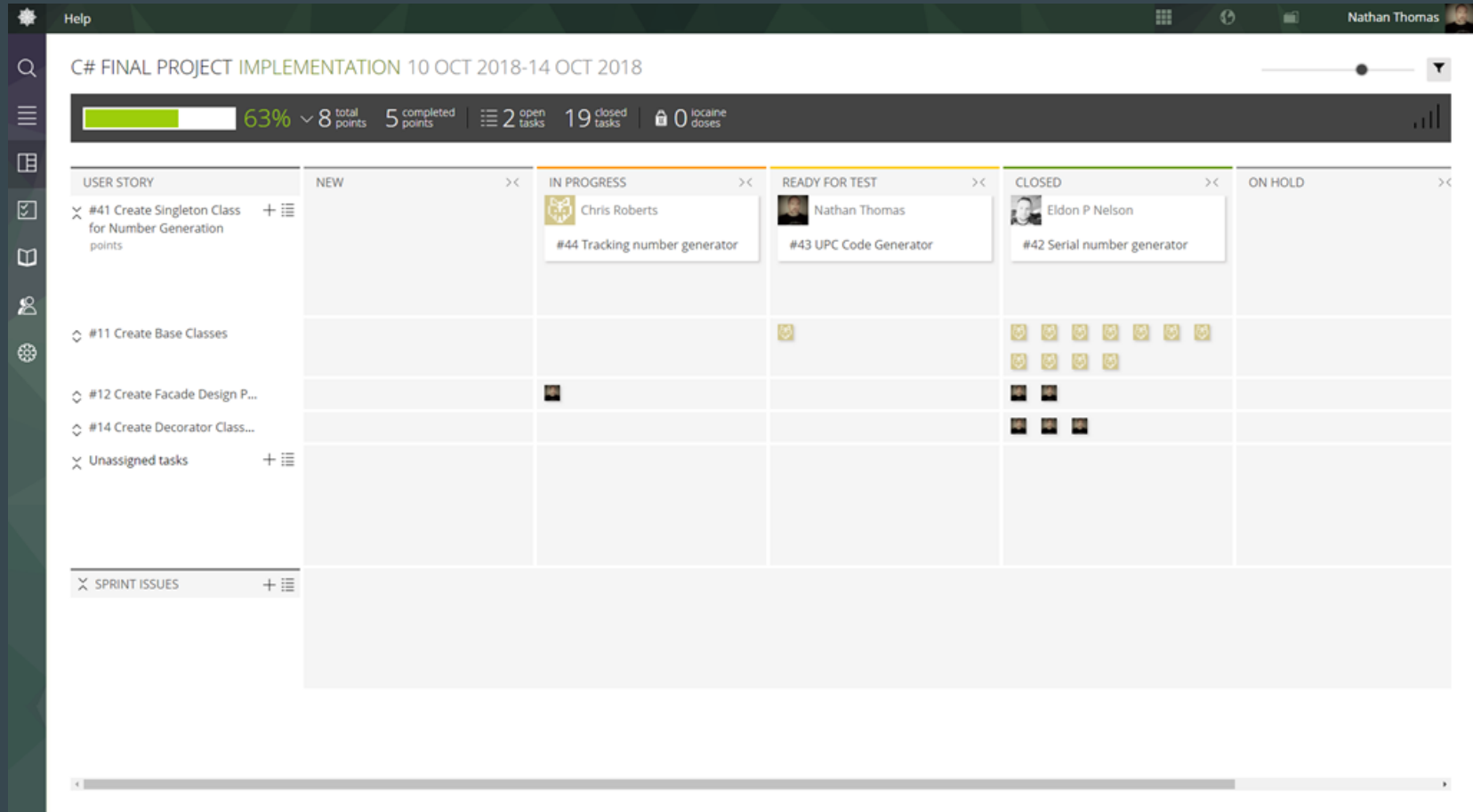
Software Development Lifecycle



Planning

- Software Development Lifecycle
- Agile Methodology

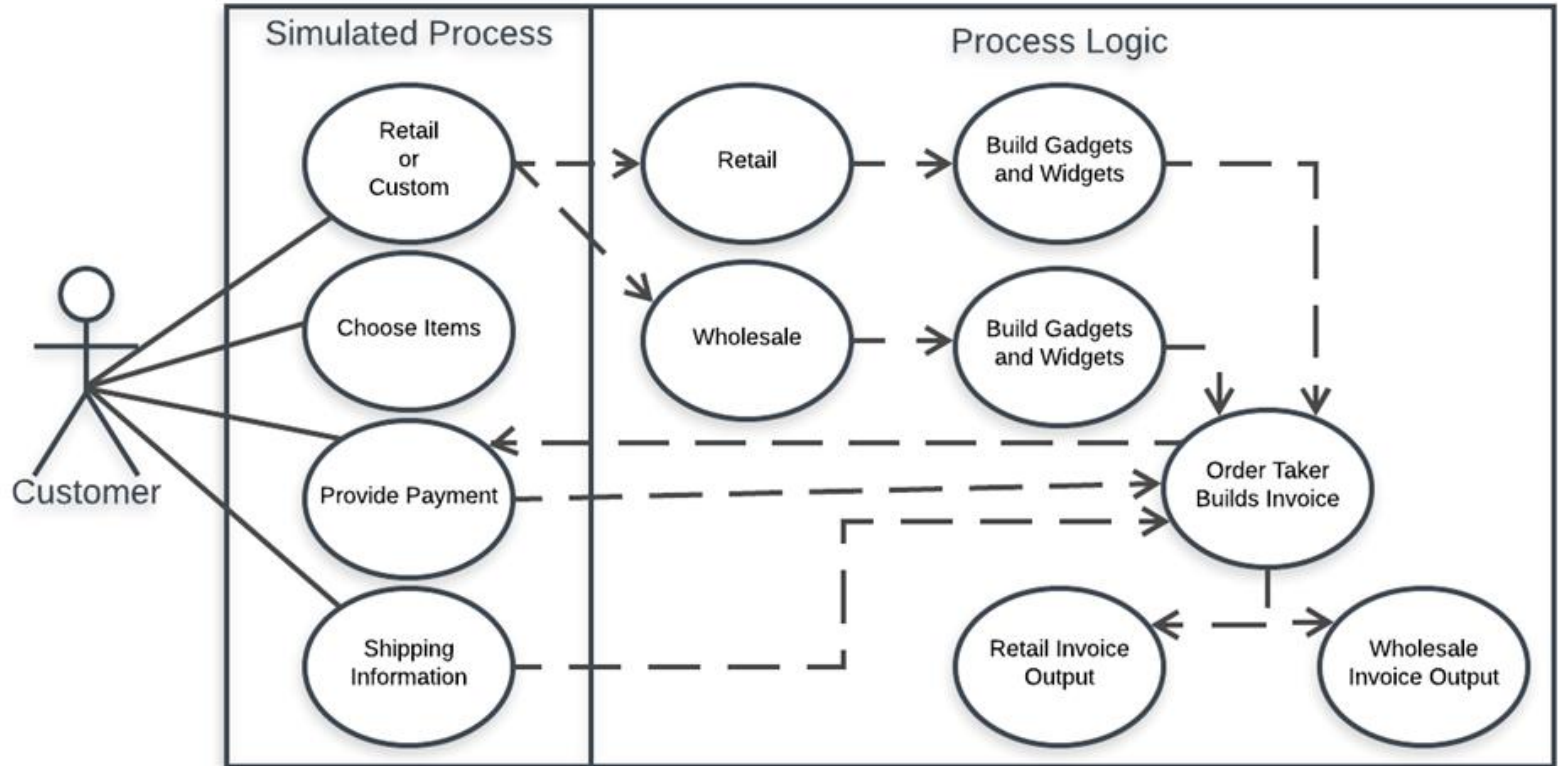
Agile - Taiga.io



Planning

- Software Development Lifecycle
- Agile Methodology
- Documentation
 - Use Case

Use Case Diagram

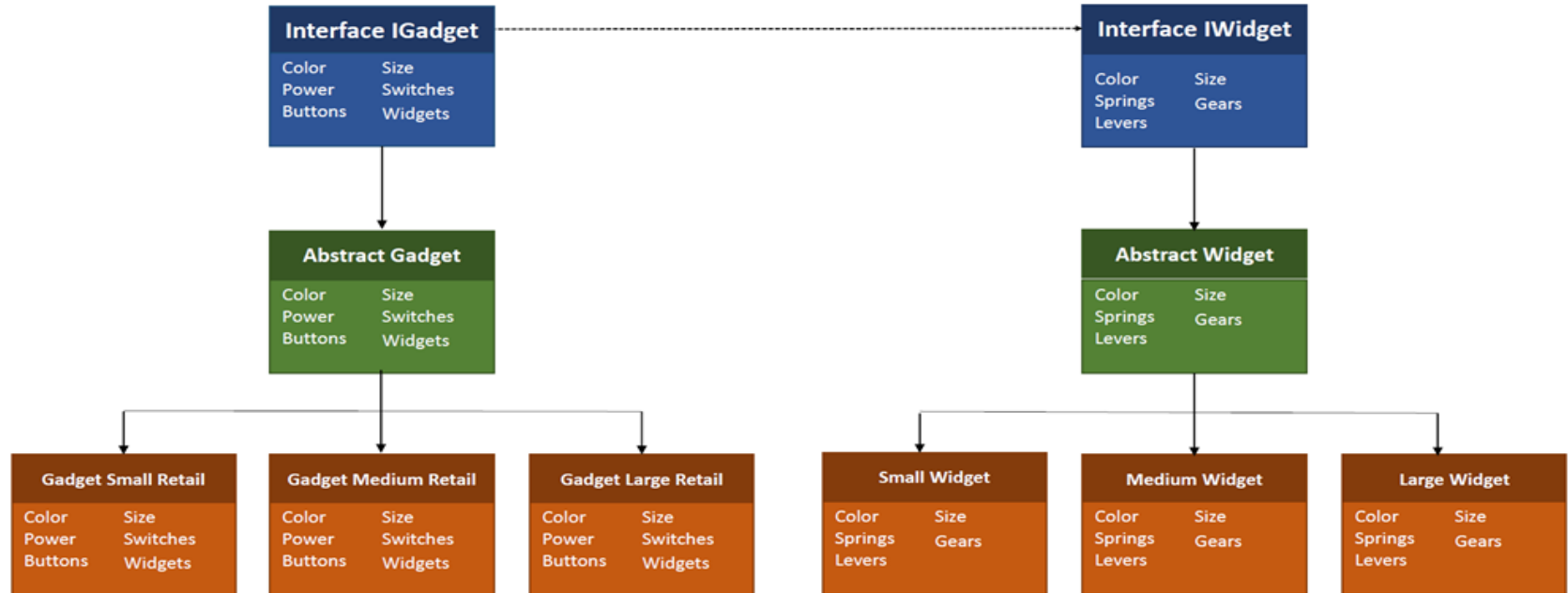


Planning

- Software Development Lifecycle
- Agile Methodology
- Documentation
 - Use Case
 - Unified Modeling Language

UML Diagrams

Gadget Hierarchy



Conclusions of initial planning and analysis.

Software Structure

- Distinguish between retail and warehouse.
- Design must reflect that structural relationship.

Project Demands

- Simple and reliable code.
- Must deliver all requirements.

Role Assignment

- Prior experience in software development.
- Team structure built on individual strengths.

Opportunities

- Apply lessons to add educational value.
- Find balance between opportunity and simplicity.

Design

Retail Items

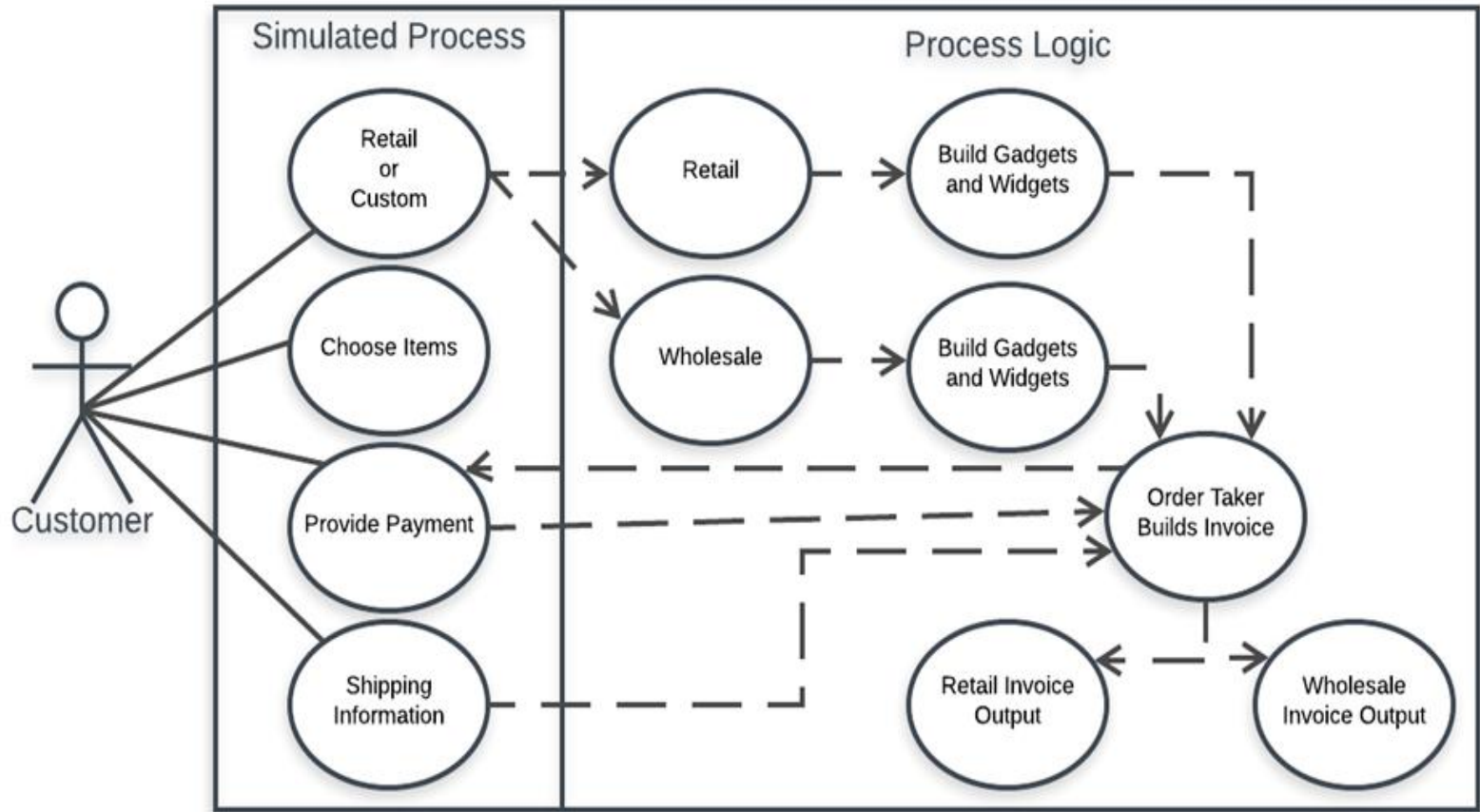
- Have a fixed set of attributes
- Can be used as a base for custom items

Warehouse Items

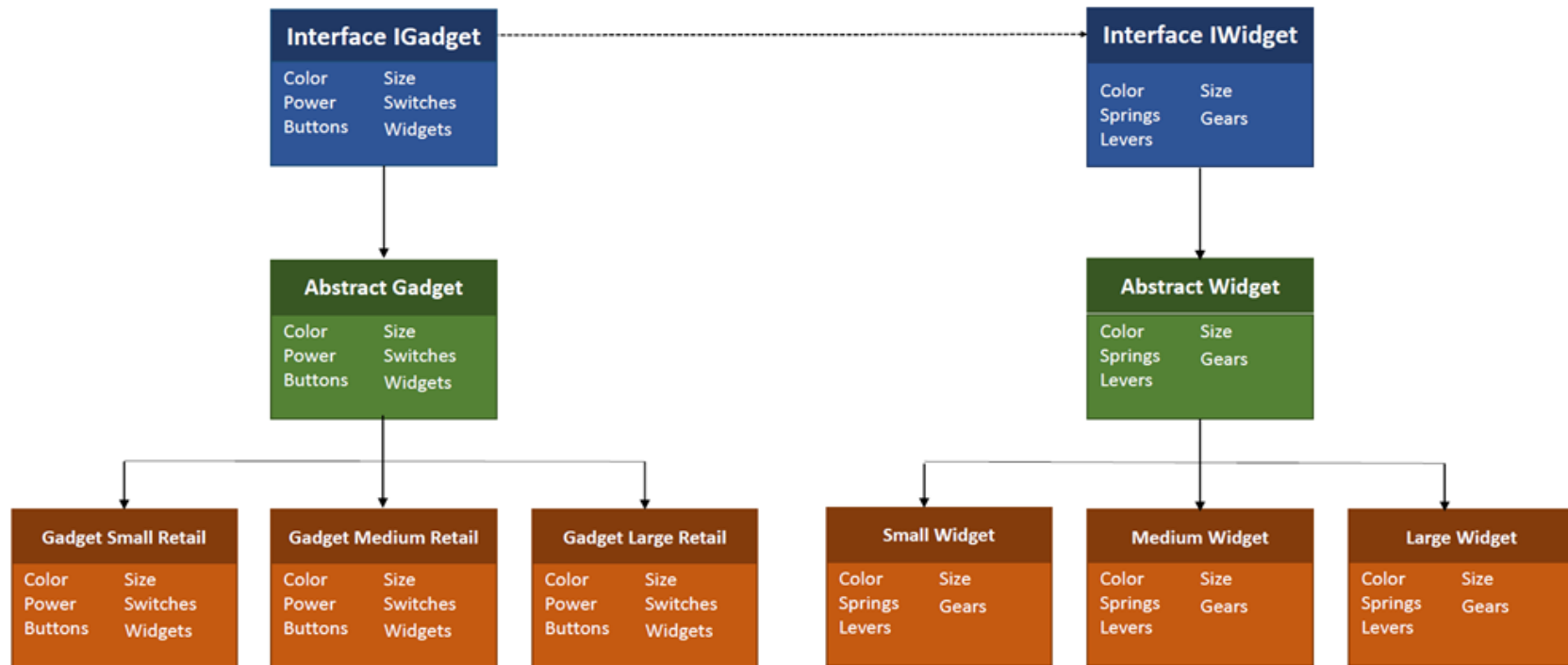
- Possess all attributes of retail items
- Additional customizations can be added to the retail base to create a unique product.

Interface

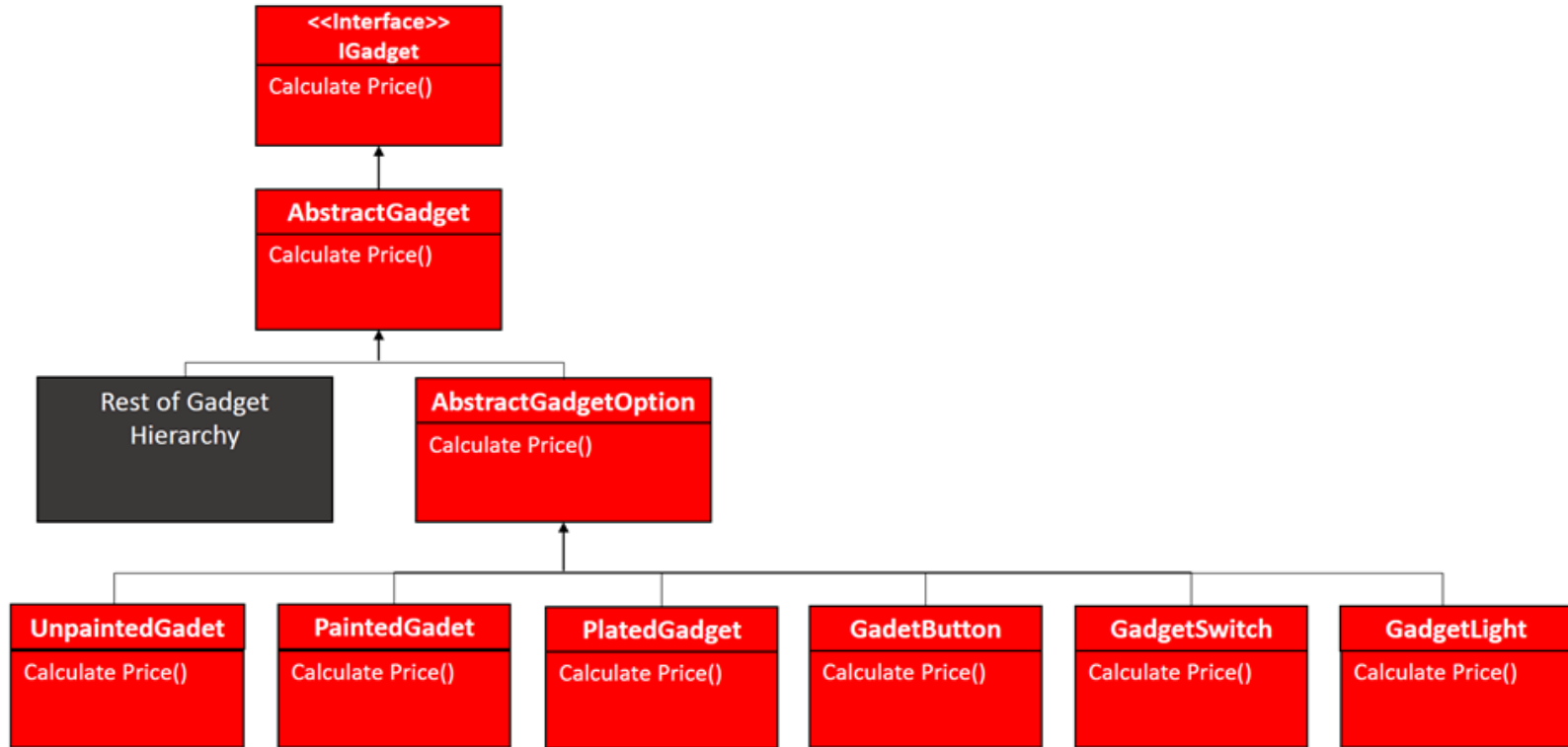
- User input is not required
- Interface must reflect a proof-of-concept order, and display relevant information including items and cost.



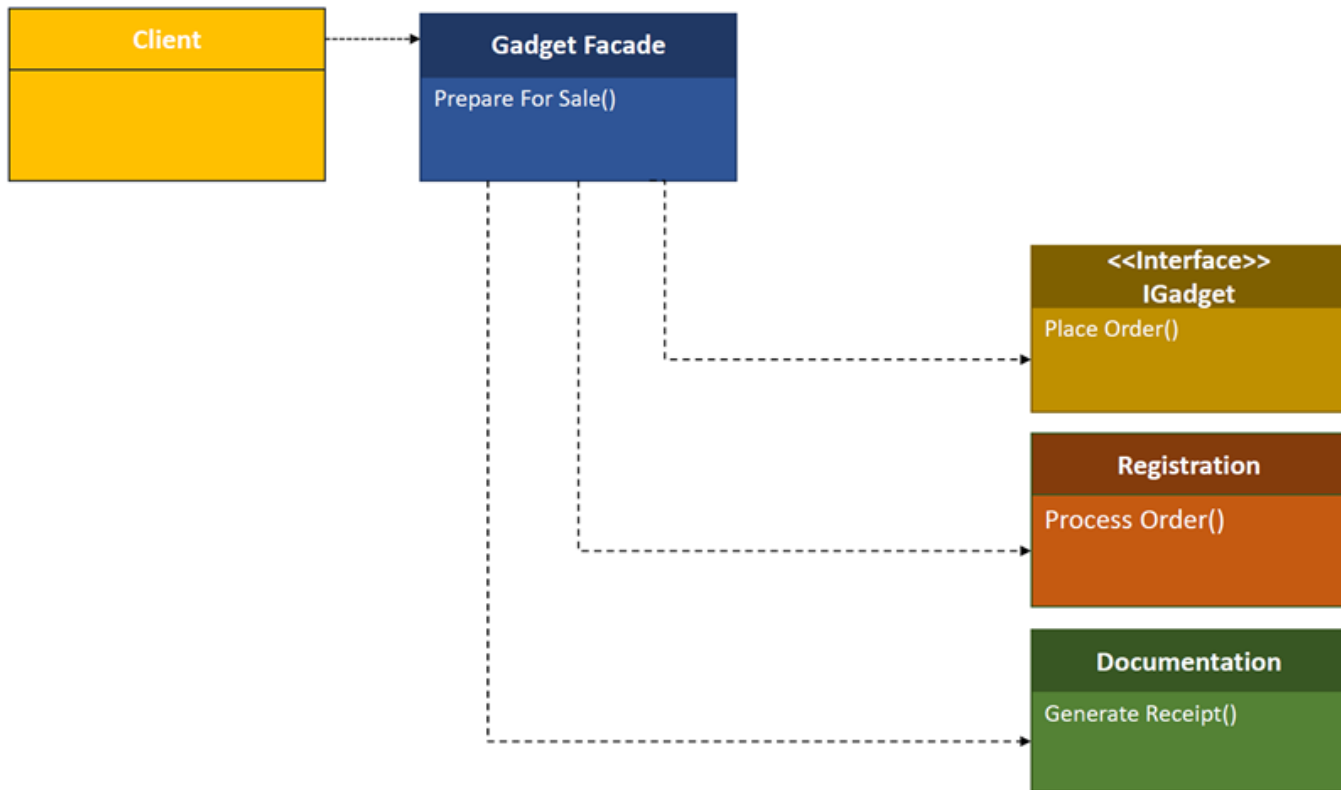
Gadget Hierarchy



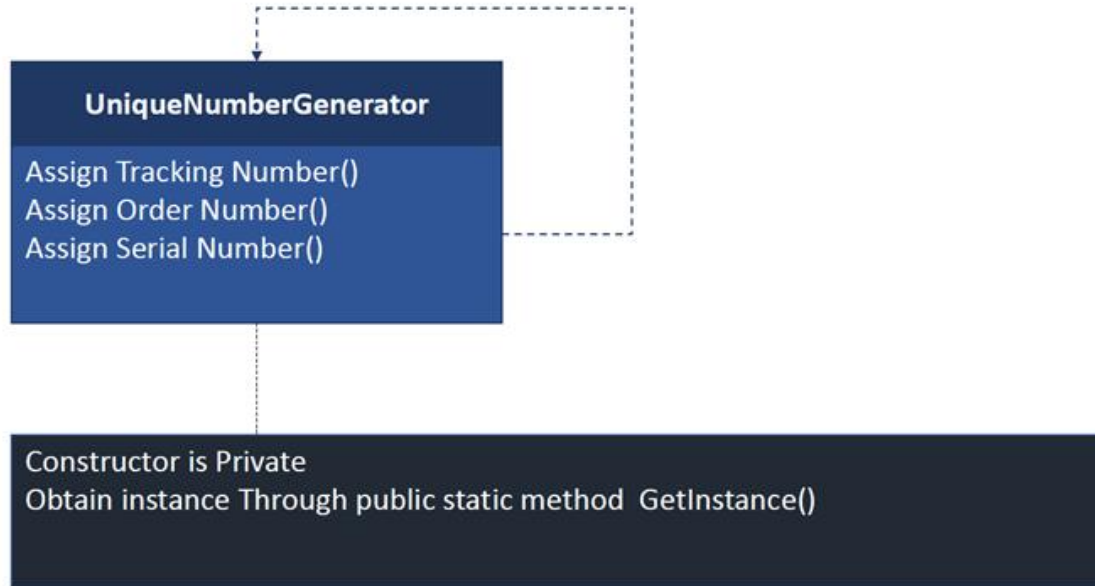
Decorator Pattern



Facade Pattern



Singleton Pattern



Implementation

Chris Roberts: Senior Developer

Paul Nelson: Developer

Nathan Thomas: Developer



Testing

Retail

Verify widget counts, buttons, and other standard parameters matched with the expected results.

Retail Output formatting and price calculations.

Serial, UPC and Tracking Numbers.

Wholesale

Verify base values for components were consistent with Retail products, and the custom items that were expected, displayed properly.

Custom Output formatting and price calculations.

Serial, UPC and Tracking Numbers.

Without Further Ado . . .

Software Development Lifecycle

