

Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

C BasicReceiptBuilder	Minimal implementation of ReceiptBuilder for basic receipts
C Begonia	Concrete implementation of a Begonia plant
C Cactus	Concrete implementation of a Cactus plant
C CareStrategy	Abstract class representing different care strategies for plants
C ChatIterator	Iterator for chat messages
C Command	
C ConcretePlantBuilder	Concrete builder that composes multiple Plant instances into a single composite Plant according to a decorator parameter
C Customer	Represents a customer in the system. Inherits from Person and implements behaviour for receiving messages sent through a Section
C DeadState	Represents the dead state of a plant in the state pattern. In this state, the plant can no longer grow or respond to care
C DecorativePot	Decorator that adds a decorative pot to a plant
C FlowerFactory	Factory for creating flower-type plants
C GiftWrapDecorator	Decorator that adds gift wrapping to a plant
C GiveSunlight	
C Greenhouse	A concrete subject that manages a collection of plants
C GreenhouseInterface	An interface for the "Subject" in the Observer design pattern
C GroundStaff	Represents ground staff in the system. Inherits from Staff and handles "Care" requests by executing watering and sunlight commands on specified plant tags. Also provides helper methods to add plants to a greenhouse and configure care commands
C HeavyCareStrategy	Concrete class implementing the CareStrategy for plants needing heavy care. This class provides specific implementations for watering, sunlight, and soil care tailored to plants that require more intensive care
C HelpDesk	A HelpDesk is a concrete Section that broadcasts messages to all participants and routes help requests to the admin or the first available Staff handler in the section. Behaviour mirrors Section derived types such as SalesRoom but is intended for assistance
C Inventory	A singleton class that manages the inventory of plants in the nursery
C InventoryInterface	An interface for the "Observer" in the Observer design pattern
C Iterator	

LightCareStrategy	Concrete class implementing the CareStrategy for plants needing light care. This class provides specific implementations for watering, sunlight, and soil care tailored to plants that require minimal care
Manager	Represents a manager in the system. Inherits from Staff and handles requests that require managerial attention
Mango	Concrete implementation of a Mango plant
MatureState	Represents the mature state of a plant. This state handles the behavior of a plant that has fully grown and is now aging. It requires normal care and will eventually transition to the dead state
ModerateCareStrategy	Concrete class implementing the CareStrategy for plants needing moderate care. This class provides specific implementations for watering, sunlight, and soil care tailored to plants that require balanced care
Oak	Concrete implementation of an Oak plant
Person	Abstract base class representing a person. Provides common attributes and methods for customers and staff
Plant	Abstract base class representing a plant in the nursery
PlantBuilder	Interface for building composite Plant objects
PlantDecorator	Base class for decorating plants with additional features
PlantFactory	Factory class for plant creation
PlantGroup	Composite class for grouping multiple plants
PlantInfo	Holds plant information for receipt storage
PlantIterator	Iterator for Plant objects
PlantState	Abstract base class for plant states. This class defines the interface for handling state-specific behavior of plants. Each concrete state class will implement the handle method to define how the plant behaves in that particular state
Receipt	Stores the items and total for a completed sale
ReceiptBuilder	
Rose	Concrete implementation of a Rose plant
SalesAssistance	
SalesClerk	Represents a sales clerk in the system. Inherits from Staff and handles Purchase requests and executes SellPlant commands
SalesRoom	A SalesRoom is a concrete Section that broadcasts messages to all participants and routes requests to the admin or the first available Staff handler in the section
Section	A Section manages a collection of Person instances, maintains a history of messages, and provides an interface to notify participants when a Person sends a message or makes a request. Concrete Section types implement the notify(Person*) method to define how messages are propagated Sections also provide an iterator for traversing the contained chat history

c SeedState	Represents the seed stage of a plant in its lifecycle. This state handles the transition from seed to sprout
c SellPlant	Concrete Command that handles selling plants and building receipts
c SproutState	Represents the sprout state of a plant in its lifecycle. This state handles the behavior and transitions specific to a sprout
c Staff	Represents a staff member in the system. Inherits from Person and provides request handling (Chain of Responsibility) and message receiving
c SucculentFactory	Factory for creating succulent-type plants
c TreeFactory	Factory for creating tree-type plants
c Tulip	Concrete implementation of a Tulip plant
c WaterPlant	Concrete Command that waters plant(s) in the greenhouse

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