Assignment4

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Chapter 1

Namespace Index

1.1	Packages	
Here	are the packages with brief descriptions (if available):	
Δ	ssignmentSvsDev4	,

2 Namespace Index

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

AssignmentSysDev4.Account	11
AssignmentSysDev4.Customer	24
AssignmentSysDev4.Employee	27
AssignmentSysDev4.Airline	13
AssignmentSysDev4.Airport	15
AssignmentSysDev4.Brand	20
AssignmentSysDev4.CancelStrategy	23
AssignmentSysDev4.BusinessClassCancel	
AssignmentSysDev4.EconomyCancel	
AssignmentSysDev4.PremiumEconomyCancel	34
AssignmentSysDev4.Flight	28
AssignmentSysDev4.CompositeElement	
AssignmentSysDev4.PrimitiveElement	
AssignmentSysDev4.FlightClass	
AssignmentSysDev4.IPlane	
AssignmentSysDev4.AirbusA319100	
AssignmentSysDev4.AirbusA330300	
AssignmentSysDev4.Boeing767300ER	
AssignmentSysDev4.Boeing777200LR	
AssignmentSysDev4.Boeing777300ER	
AssignmentSysDev4.Boeing7878	
AssignmentSysDev4.Boeing7879	
AssignmentSysDev4.BombardierCRJ200	
AssignmentSysDev4.BombardierCRJ705	19
AssignmentSysDev4.BombardierQ400	20
AssignmentSysDev4.EmbraerE175	27
AssignmentSysDev4.Plane.IPlane	33
AssignmentSysDev4.Plane	33
· ·	34
AssignmentSysDev4.Program	36
	37

Hierarchical Index

Chapter 3

Class Index

3.1 Class List

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

Assimum and Over Device Assessment	
3	11
5 ,	12
	13
	13
AssignmentSysDev4.Airport	1 !
g , g	1 !
AssignmentSysDev4.Boeing777200LR	16
AssignmentSysDev4.Boeing777300ER	
This class defines a plane which extends the IPlane (p. 32) interface; other plane classes in this	
file have the same basic code, the different model numbers are specified for each one. This	
makes it possible to add more individual properties unique to a model of plane.	17
AssignmentSysDev4.Boeing7878	17
AssignmentSysDev4.Boeing7879	18
AssignmentSysDev4.BombardierCRJ200	19
AssignmentSysDev4.BombardierCRJ705	19
AssignmentSysDev4.BombardierQ400	2(
AssignmentSysDev4.Brand	2(
AssignmentSysDev4.BusinessClassCancel	
A 'ConcreteStrategy' class This strategy class allows the purchase price of Business class tickets	
to be refunded if the ticket is cancelled within 96 hours, i.e. four days of puchase	22
AssignmentSysDev4.CancelStrategy	23
AssignmentSysDev4.CompositeElement	
Flights can also be used as Composite elements because one flight might be 'fixed', i.e. the customer has a narrow window of possible departure times at some point in their journey, but the primitive elements added to the list of the Composite element will be flights that are possible connections. The Composite pattern is used here because it allows for this kind of things, i.e. having a list of items with associated branches or 'leaf' items, and having the data grouped this	
	23
	24
AssignmentSysDev4.EconomyCancel	_
A 'ConcreteStrategy' class This stragegy class allows an Economy ticket's purchase price to be	
	26
	-\ 27
5 ,	27
	28
	31
Madigninionio vapo v Tri ng (1000)	_

6 Class Index

AssignmentSysDev4.IPlane	
Here we use the Factory design pattern to create planes. Each plane has a model, we allow the	
use of a simple integer model number. In a full system, planes would likely be picked from a list	
based on a database table	32
AssignmentSysDev4.Plane.IPlane	33
AssignmentSysDev4.Plane	33
AssignmentSysDev4.PlaneCreator	
This Creator class uses a FactoryMethod to determine what type of plane object to set up	34
AssignmentSysDev4.PremiumEconomyCancel	
A 'ConcreteStrategy' class This strategy class allows a Premium Economy ticket's price to be	
refunded if the ticket is cancelled within 48 hours of purchase	34
AssignmentSysDev4.PrimitiveElement	
Flights can be primitive elements within the use of the composite pattern. This is because we wish to make lists of flights that offer alternative connections based on times, stopover times, etc.	
so customers have choices.	35
AssignmentSysDev4.Program	36
AssignmentSysDev4.Ticket	
The ticket class employs different cancellation strategies, set up in individual classes The use of	
the stragegy pattern for this would, potentially, allow other characteristics of the different ticket	
classes to be set up.	37

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Account.cs	39
G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Airline.cs	39
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G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/ Customer.cs .	40
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G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Flight.cs	40
G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/FlightClass.cs	41
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$ \hbox{G:/INFO8240} \text{-} \hbox{Systems} \hbox{Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Plane} $	
Creator.cs	42
G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/ Program.cs .	42
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G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/obj/Debug/Tempora	ary←
GeneratedFile_036C0B5B-1481-4323-8D20-8F5ADCB23D92.cs	41
$G:/INFO8240-Systems\ Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/obj/Debug/ \textbf{Temporal SysDev4}/AssignmentSysDev4/obj/Debug/\textbf{Temporal SysDev4}/AssignmentSysDev4/obj/Debug/AssignmentSysDev4/obj/Debug/AssignmentSysDev4/obj/Debug/AssignmentSysDev4/obj/Debug/AssignmentSysDev4/obj/Debug/AssignmentSysDev4/obj$	ary←
GeneratedFile_5937a670-0e60-4077-877b-f7221da3dda1.cs	41
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GeneratedFile_E7A71F73-0F8D-4B9B-B56E-8E70B10BC5D3.cs	41
$G:/INFO8240-Systems\ Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Properties/\textbf{Assemble} and the properties of the properties $	ly⊷
Info.cs	42

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Chapter 5

Namespace Documentation

5.1 AssignmentSysDev4 Namespace Reference

Classes

- · class Account
- · class AirbusA319100
- · class Airbus A330300
- · class Airline
- · class Airport
- class Boeing767300ER
- · class Boeing777200LR
- · class Boeing777300ER

This class defines a plane which extends the **IPlane** (p. 32) interface; other plane classes in this file have the same basic code, the different model numbers are specified for each one. This makes it possible to add more individual properties unique to a model of plane.

- class Boeing7878
- · class Boeing7879
- class BombardierCRJ200
- class BombardierCRJ705
- class BombardierQ400
- class Brand
- class BusinessClassCancel

A 'ConcreteStrategy' class This strategy class allows the purchase price of Business class tickets to be refunded if the ticket is cancelled within 96 hours, i.e. four days of puchase

- class CancelStrategy
- class CompositeElement

Flights can also be used as Composite elements because one flight might be 'fixed', i.e. the customer has a narrow window of possible departure times at some point in their journey, but the primitive elements added to the list of the Composite element will be flights that are possible connections. The Composite pattern is used here because it allows for this kind of things, i.e. having a list of items with associated branches or 'leaf' items, and having the data grouped this way for flights will allow the system to show alternative flights to complete a journey.

- · class Customer
- class EconomyCancel

A 'ConcreteStrategy' class This stragegy class allows an Economy ticket's purchase price to be refunded if it is cancelled within 24 hours of purchase.

- class EmbraerE175
- · class Employee
- · class Flight
- · class FlightClass

· interface IPlane

Here we use the Factory design pattern to create planes. Each plane has a model, we allow the use of a simple integer model number. In a full system, planes would likely be picked from a list based on a database table.

• class Plane

· class PlaneCreator

This Creator class uses a FactoryMethod to determine what type of plane object to set up.

• class PremiumEconomyCancel

A 'ConcreteStrategy' class This strategy class allows a Premium Economy ticket's price to be refunded if the ticket is cancelled within 48 hours of purchase.

· class PrimitiveElement

Flights can be primitive elements within the use of the composite pattern. This is because we wish to make lists of flights that offer alternative connections based on times, stopover times, etc. so customers have choices.

• class Program

· class Ticket

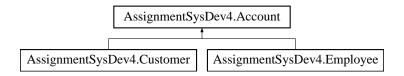
The ticket class employs different cancellation strategies, set up in individual classes The use of the stragegy pattern for this would, potentially, allow other characteristics of the different ticket classes to be set up.

Chapter 6

Class Documentation

6.1 AssignmentSysDev4.Account Class Reference

Inheritance diagram for AssignmentSysDev4.Account:



Classes

- · class CustomerViewAccount
- · class EmployeeViewAccount
- · class Facade

A Facade is used here to allow Employees to see Detailed information about accounts, while customers have their own view of their account. This will allow the system to do things like allowing employees to simulate a customer's view and see data only to be shared with employees.

Public Member Functions

- void ViewAccountInfo (bool employeeInd, bool delinquentStatus)
- void UpdateAccount ()

Properties

- Ticket Ticket1 [get, set]
- bool **Delinquent** [get, set]
- bool **EmployeeInd** [get, set]

6.1.1 Detailed Description

Definition at line 8 of file Account.cs.

6.1.2 Member Function Documentation

6.1.2.1 void AssignmentSysDev4.Account.UpdateAccount ()

Definition at line 124 of file Account.cs.

6.1.2.2 void AssignmentSysDev4.Account.ViewAccountInfo (bool employeeInd, bool delinquentStatus)

Definition at line 53 of file Account.cs.

6.1.3 Property Documentation

6.1.3.1 bool AssignmentSysDev4.Account.Delinquent [get], [set]

Definition at line 31 of file Account.cs.

6.1.3.2 bool AssignmentSysDev4.Account.EmployeeInd [get], [set]

Definition at line 41 of file Account.cs.

6.1.3.3 Ticket AssignmentSysDev4.Account.Ticket1 [get], [set]

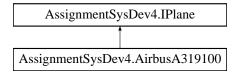
Definition at line 20 of file Account.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Account.cs

6.2 AssignmentSysDev4.AirbusA319100 Class Reference

Inheritance diagram for AssignmentSysDev4.AirbusA319100:



Public Member Functions

• string GetModel ()

6.2.1 Detailed Description

Definition at line 135 of file PlaneCreator.cs.

6.2.2 Member Function Documentation

6.2.2.1 string AssignmentSysDev4.AirbusA319100.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

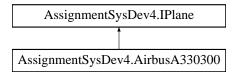
Definition at line 139 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.3 AssignmentSysDev4.AirbusA330300 Class Reference

Inheritance diagram for AssignmentSysDev4.AirbusA330300:



Public Member Functions

• string GetModel ()

6.3.1 Detailed Description

Definition at line 51 of file PlaneCreator.cs.

6.3.2 Member Function Documentation

6.3.2.1 string AssignmentSysDev4.AirbusA330300.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

Definition at line 55 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.4 AssignmentSysDev4.Airline Class Reference

Public Member Functions

- · void AddAirline ()
- · void ViewAirline ()
- void UpdateAirline ()
- void **DeleteAirline** ()
- void AddBrand (Brand brandName)
- void ViewBrand ()
- · void UpdateBrand ()
- void DeleteBrand ()

Static Public Member Functions

• static Airline AirlineInstatnce ()

Properties

• Brand Brand [get, set]

6.4.1 Detailed Description

Definition at line 8 of file Airline.cs.

6.4.2 Member Function Documentation

6.4.2.1 void AssignmentSysDev4.Airline.AddAirline ()

Definition at line 38 of file Airline.cs.

6.4.2.2 void AssignmentSysDev4.Airline.AddBrand (Brand brandName)

Definition at line 58 of file Airline.cs.

6.4.2.3 static Airline AssignmentSysDev4.Airline.AirlineInstatnce() [static]

Definition at line 17 of file Airline.cs.

6.4.2.4 void AssignmentSysDev4.Airline.DeleteAirline ()

Definition at line 53 of file Airline.cs.

6.4.2.5 void AssignmentSysDev4.Airline.DeleteBrand ()

Definition at line 74 of file Airline.cs.

6.4.2.6 void AssignmentSysDev4.Airline.UpdateAirline ()

Definition at line 48 of file Airline.cs.

6.4.2.7 void AssignmentSysDev4.Airline.UpdateBrand ()

Definition at line 69 of file Airline.cs.

6.4.2.8 void AssignmentSysDev4.Airline.ViewAirline ()

Definition at line 43 of file Airline.cs.

6.4.2.9 void AssignmentSysDev4.Airline.ViewBrand ()

Definition at line 64 of file Airline.cs.

6.4.3 Property Documentation

6.4.3.1 Brand AssignmentSysDev4.Airline.Brand [get], [set]

Definition at line 28 of file Airline.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Airline.cs

6.5 AssignmentSysDev4.Airport Class Reference

Public Member Functions

- void AddNewTerminal ()
- void ViewAirport ()
- void **DeleteAirport** ()
- void UpdateAirport ()

6.5.1 Detailed Description

Definition at line 8 of file Airport.cs.

6.5.2 Member Function Documentation

6.5.2.1 void AssignmentSysDev4.Airport.AddNewTerminal ()

Definition at line 14 of file Airport.cs.

6.5.2.2 void AssignmentSysDev4.Airport.DeleteAirport ()

Definition at line 24 of file Airport.cs.

6.5.2.3 void AssignmentSysDev4.Airport.UpdateAirport ()

Definition at line 29 of file Airport.cs.

6.5.2.4 void AssignmentSysDev4.Airport.ViewAirport ()

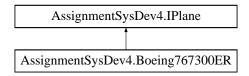
Definition at line 19 of file Airport.cs.

The documentation for this class was generated from the following file:

 $\bullet \ \ G:/INFO8240 - Systems \ Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Airport. \textbf{cs}$

6.6 AssignmentSysDev4.Boeing767300ER Class Reference

Inheritance diagram for AssignmentSysDev4.Boeing767300ER:



Public Member Functions

• string GetModel ()

6.6.1 Detailed Description

Definition at line 125 of file PlaneCreator.cs.

6.6.2 Member Function Documentation

6.6.2.1 string AssignmentSysDev4.Boeing767300ER.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

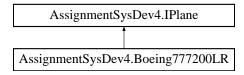
Definition at line 129 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.7 AssignmentSysDev4.Boeing777200LR Class Reference

Inheritance diagram for AssignmentSysDev4.Boeing777200LR:



Public Member Functions

• string GetModel ()

6.7.1 Detailed Description

Definition at line 41 of file PlaneCreator.cs.

6.7.2 Member Function Documentation

6.7.2.1 string AssignmentSysDev4.Boeing777200LR.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

Definition at line 45 of file PlaneCreator.cs.

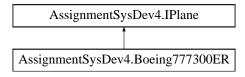
The documentation for this class was generated from the following file:

 $\bullet \ \ G:/INFO8240 \ - \ Systems \ Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs$

6.8 AssignmentSysDev4.Boeing777300ER Class Reference

This class defines a plane which extends the **IPlane** (p. 32) interface; other plane classes in this file have the same basic code, the different model numbers are specified for each one. This makes it possible to add more individual properties unique to a model of plane.

Inheritance diagram for AssignmentSysDev4.Boeing777300ER:



Public Member Functions

• string GetModel ()

6.8.1 Detailed Description

This class defines a plane which extends the **IPlane** (p. 32) interface; other plane classes in this file have the same basic code, the different model numbers are specified for each one. This makes it possible to add more individual properties unique to a model of plane.

Definition at line 30 of file PlaneCreator.cs.

6.8.2 Member Function Documentation

6.8.2.1 string AssignmentSysDev4.Boeing777300ER.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

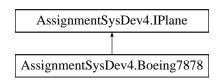
Definition at line 34 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.9 AssignmentSysDev4.Boeing7878 Class Reference

Inheritance diagram for AssignmentSysDev4.Boeing7878:



Public Member Functions

• string GetModel ()

6.9.1 Detailed Description

Definition at line 73 of file PlaneCreator.cs.

6.9.2 Member Function Documentation

6.9.2.1 string AssignmentSysDev4.Boeing7878.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

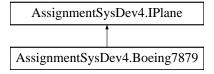
Definition at line 77 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.10 AssignmentSysDev4.Boeing7879 Class Reference

Inheritance diagram for AssignmentSysDev4.Boeing7879:



Public Member Functions

• string GetModel ()

6.10.1 Detailed Description

Definition at line 62 of file PlaneCreator.cs.

6.10.2 Member Function Documentation

6.10.2.1 string AssignmentSysDev4.Boeing7879.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

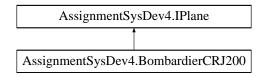
Definition at line 66 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.11 AssignmentSysDev4.BombardierCRJ200 Class Reference

Inheritance diagram for AssignmentSysDev4.BombardierCRJ200:



Public Member Functions

• string GetModel ()

6.11.1 Detailed Description

Definition at line 104 of file PlaneCreator.cs.

6.11.2 Member Function Documentation

6.11.2.1 string AssignmentSysDev4.BombardierCRJ200.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

Definition at line 108 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

 $\bullet \ \ G:/INFO8240 \ - \ Systems \ Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs$

6.12 AssignmentSysDev4.BombardierCRJ705 Class Reference

Inheritance diagram for AssignmentSysDev4.BombardierCRJ705:



Public Member Functions

• string GetModel ()

6.12.1 Detailed Description

Definition at line 94 of file PlaneCreator.cs.

6.12.2 Member Function Documentation

6.12.2.1 string AssignmentSysDev4.BombardierCRJ705.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

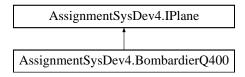
Definition at line 98 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.13 AssignmentSysDev4.BombardierQ400 Class Reference

Inheritance diagram for AssignmentSysDev4.BombardierQ400:



Public Member Functions

• string GetModel ()

6.13.1 Detailed Description

Definition at line 114 of file PlaneCreator.cs.

6.13.2 Member Function Documentation

6.13.2.1 string AssignmentSysDev4.BombardierQ400.GetModel ()

Implements AssignmentSysDev4.IPlane (p. 32).

Definition at line 118 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

 $\bullet \ \ G:/INFO8240 \ - \ Systems \ Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs$

6.14 AssignmentSysDev4.Brand Class Reference

Public Member Functions

- · void AddBrand ()
- · void UpdateBrand ()
- · void DeleteBrand ()
- void ViewBrand ()
- void AddPlane ()
- · void AddPlanes (int modelNumber, int numberToAdd)

Here we will take a modelNumber and a number of planes to add to a **Brand** (p. 20). Then we can use methods defined in the **PlaneCreator** (p. 34) class to add those planes to the brand. **PlaneCreator** (p. 34) will use the Factory method.

- void ViewPlane ()
- · void UpdatePlane ()
- void DeletePlane ()

Properties

• string Name [get, set]

6.14.1 Detailed Description

Definition at line 8 of file Brand.cs.

6.14.2 Member Function Documentation

6.14.2.1 void AssignmentSysDev4.Brand.AddBrand ()

Definition at line 20 of file Brand.cs.

6.14.2.2 void AssignmentSysDev4.Brand.AddPlane ()

Definition at line 40 of file Brand.cs.

6.14.2.3 void AssignmentSysDev4.Brand.AddPlanes (int modelNumber, int numberToAdd)

Here we will take a modelNumber and a number of planes to add to a **Brand** (p. 20). Then we can use methods defined in the **PlaneCreator** (p. 34) class to add those planes to the brand. **PlaneCreator** (p. 34) will use the Factory method.

Parameters

modelNumber	
numberToAdd	

Definition at line 52 of file Brand.cs.

6.14.2.4 void AssignmentSysDev4.Brand.DeleteBrand ()

Definition at line 30 of file Brand.cs.

6.14.2.5 void AssignmentSysDev4.Brand.DeletePlane ()

Definition at line 72 of file Brand.cs.

6.14.2.6 void AssignmentSysDev4.Brand.UpdateBrand ()

Definition at line 25 of file Brand.cs.

6.14.2.7 void AssignmentSysDev4.Brand.UpdatePlane ()

Definition at line 67 of file Brand.cs.

6.14.2.8 void AssignmentSysDev4.Brand.ViewBrand ()

Definition at line 35 of file Brand.cs.

6.14.2.9 void AssignmentSysDev4.Brand.ViewPlane ()

Definition at line 62 of file Brand.cs.

6.14.3 Property Documentation

6.14.3.1 string AssignmentSysDev4.Brand.Name [get], [set]

Definition at line 14 of file Brand.cs.

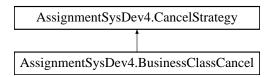
The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Brand.cs

6.15 AssignmentSysDev4.BusinessClassCancel Class Reference

A 'ConcreteStrategy' class This strategy class allows the purchase price of Business class tickets to be refunded if the ticket is cancelled within 96 hours, i.e. four days of puchase

Inheritance diagram for AssignmentSysDev4.BusinessClassCancel:



Public Member Functions

• override bool Cancel (Ticket ticketToCancel)

6.15.1 Detailed Description

A 'ConcreteStrategy' class This strategy class allows the purchase price of Business class tickets to be refunded if the ticket is cancelled within 96 hours, i.e. four days of puchase

Definition at line 110 of file Ticket.cs.

6.15.2 Member Function Documentation

6.15.2.1 override bool AssignmentSysDev4.BusinessClassCancel.Cancel (Ticket ticketToCancel) [virtual]

Implements AssignmentSysDev4.CancelStrategy (p. 23).

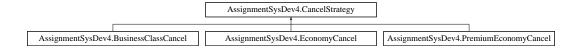
Definition at line 112 of file Ticket.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Ticket.cs

6.16 AssignmentSysDev4.CancelStrategy Class Reference

Inheritance diagram for AssignmentSysDev4.CancelStrategy:



Public Member Functions

abstract bool Cancel (Ticket ticketToCancel)

6.16.1 Detailed Description

Definition at line 49 of file Ticket.cs.

6.16.2 Member Function Documentation

6.16.2.1 abstract bool AssignmentSysDev4.CancelStrategy.Cancel (Ticket ticketToCancel) [pure virtual]

Implemented in AssignmentSysDev4.BusinessClassCancel (p. 22), AssignmentSysDev4.Premium ← EconomyCancel (p. 35), and AssignmentSysDev4.EconomyCancel (p. 26).

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Ticket.cs

6.17 AssignmentSysDev4.CompositeElement Class Reference

Flights can also be used as Composite elements because one flight might be 'fixed', i.e. the customer has a narrow window of possible departure times at some point in their journey, but the primitive elements added to the list of the Composite element will be flights that are possible connections. The Composite pattern is used here because it allows for this kind of things, i.e. having a list of items with associated branches or 'leaf' items, and having the data grouped this way for flights will allow the system to show alternative flights to complete a journey.

Inheritance diagram for AssignmentSysDev4.CompositeElement:



Public Member Functions

- CompositeElement (Flight baseFlight)
- override void Add (Flight newConnection)
- · override void Remove (Flight oldConnection)
- override void **Display** (int indent)

Additional Inherited Members

6.17.1 Detailed Description

Flights can also be used as Composite elements because one flight might be 'fixed', i.e. the customer has a narrow window of possible departure times at some point in their journey, but the primitive elements added to the list of the Composite element will be flights that are possible connections. The Composite pattern is used here because it allows for this kind of things, i.e. having a list of items with associated branches or 'leaf' items, and having the data grouped this way for flights will allow the system to show alternative flights to complete a journey.

Definition at line 154 of file Flight.cs.

6.17.2 Constructor & Destructor Documentation

6.17.2.1 AssignmentSysDev4.CompositeElement.CompositeElement (Flight baseFlight)

Definition at line 160 of file Flight.cs.

6.17.3 Member Function Documentation

6.17.3.1 override void AssignmentSysDev4.CompositeElement.Add (Flight newConnection) [virtual]

Reimplemented from AssignmentSysDev4.Flight (p. 29).

Definition at line 166 of file Flight.cs.

6.17.3.2 override void AssignmentSysDev4.CompositeElement.Display (int indent) [virtual]

Reimplemented from AssignmentSysDev4.Flight (p. 30).

Definition at line 176 of file Flight.cs.

6.17.3.3 override void AssignmentSysDev4.CompositeElement.Remove(Flight oldConnection) [virtual]

Reimplemented from AssignmentSysDev4.Flight (p. 30).

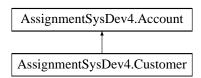
Definition at line 171 of file Flight.cs.

The documentation for this class was generated from the following file:

G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Flight.cs

6.18 AssignmentSysDev4.Customer Class Reference

Inheritance diagram for AssignmentSysDev4.Customer:



Public Member Functions

- void QueryFlightSchedual ()
- void ReserveTicket ()
- void PurchaseTicket ()
- void CancelTicket ()
- void UpgradeTicket ()
- void ChangeSeatLocation ()
- void ViewFlightHistory ()
- void CreateAccount ()
- void ViewFlight ()
- void CreateCustomerAccount ()
- void CreatePotentionalCustomerAccount ()

Additional Inherited Members

6.18.1 Detailed Description

Definition at line 8 of file Customer.cs.

6.18.2 Member Function Documentation

6.18.2.1 void AssignmentSysDev4.Customer.CancelTicket ()

Definition at line 26 of file Customer.cs.

6.18.2.2 void AssignmentSysDev4.Customer.ChangeSeatLocation ()

Definition at line 36 of file Customer.cs.

6.18.2.3 void AssignmentSysDev4.Customer.CreateAccount ()

Definition at line 46 of file Customer.cs.

6.18.2.4 void AssignmentSysDev4.Customer.CreateCustomerAccount ()

Definition at line 56 of file Customer.cs.

6.18.2.5 void AssignmentSysDev4.Customer.CreatePotentionalCustomerAccount ()

Definition at line 61 of file Customer.cs.

6.18.2.6 void AssignmentSysDev4.Customer.PurchaseTicket ()

Definition at line 21 of file Customer.cs.

6.18.2.7 void AssignmentSysDev4.Customer.QueryFlightSchedual ()

Definition at line 11 of file Customer.cs.

6.18.2.8 void AssignmentSysDev4.Customer.ReserveTicket ()

Definition at line 16 of file Customer.cs.

6.18.2.9 void AssignmentSysDev4.Customer.UpgradeTicket ()

Definition at line 31 of file Customer.cs.

6.18.2.10 void AssignmentSysDev4.Customer.ViewFlight()

Definition at line 51 of file Customer.cs.

6.18.2.11 void AssignmentSysDev4.Customer.ViewFlightHistory ()

Definition at line 41 of file Customer.cs.

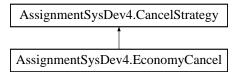
The documentation for this class was generated from the following file:

G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Customer.cs

6.19 AssignmentSysDev4.EconomyCancel Class Reference

A 'ConcreteStrategy' class This stragegy class allows an Economy ticket's purchase price to be refunded if it is cancelled within 24 hours of purchase.

Inheritance diagram for AssignmentSysDev4.EconomyCancel:



Public Member Functions

override bool Cancel (Ticket ticketToCancel)

6.19.1 Detailed Description

A 'ConcreteStrategy' class This stragegy class allows an Economy ticket's purchase price to be refunded if it is cancelled within 24 hours of purchase.

Definition at line 58 of file Ticket.cs.

6.19.2 Member Function Documentation

6.19.2.1 override bool AssignmentSysDev4.EconomyCancel.Cancel (Ticket ticketToCancel) [virtual]

Implements AssignmentSysDev4.CancelStrategy (p. 23).

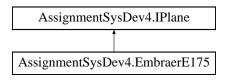
Definition at line 60 of file Ticket.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Ticket.cs

6.20 AssignmentSysDev4.EmbraerE175 Class Reference

Inheritance diagram for AssignmentSysDev4.EmbraerE175:



Public Member Functions

• string GetModel ()

6.20.1 Detailed Description

Definition at line 84 of file PlaneCreator.cs.

6.20.2 Member Function Documentation

6.20.2.1 string AssignmentSysDev4.EmbraerE175.GetModel ()

 $Implements \ \textbf{AssignmentSysDev4.IPlane} \ \ (p.\ 32).$

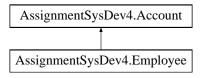
Definition at line 88 of file PlaneCreator.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.21 AssignmentSysDev4.Employee Class Reference

Inheritance diagram for AssignmentSysDev4.Employee:



Public Member Functions

- void AddPlane ()
- void AddClassFlight ()
- void SchedulaFlight ()
- void AddAirCraft ()
- void AddFlight ()
- void CreateEmployeeAccount ()

Additional Inherited Members

6.21.1 Detailed Description

Definition at line 11 of file Employee.cs.

6.21.2 Member Function Documentation

6.21.2.1 void AssignmentSysDev4.Employee.AddAirCraft ()

Definition at line 28 of file Employee.cs.

6.21.2.2 void AssignmentSysDev4.Employee.AddClassFlight ()

Definition at line 18 of file Employee.cs.

6.21.2.3 void AssignmentSysDev4.Employee.AddFlight ()

Definition at line 33 of file Employee.cs.

6.21.2.4 void AssignmentSysDev4.Employee.AddPlane ()

Definition at line 13 of file Employee.cs.

6.21.2.5 void AssignmentSysDev4.Employee.CreateEmployeeAccount ()

Definition at line 38 of file Employee.cs.

6.21.2.6 void AssignmentSysDev4.Employee.SchedulaFlight ()

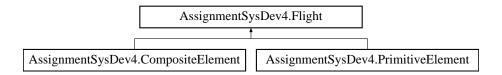
Definition at line 23 of file Employee.cs.

The documentation for this class was generated from the following file:

G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Employee.cs

6.22 AssignmentSysDev4.Flight Class Reference

Inheritance diagram for AssignmentSysDev4.Flight:



Public Member Functions

- virtual void Add (Flight newFlight)
- virtual void Remove (Flight newFlight)

- virtual void **Display** (int indent)
- void ViewFlight ()
- void DeleteFlight ()
- void UpdateFlight ()
- · void AddFlight ()
- void AddFlightClass ()
- void UpdateFlightClass ()
- void DeleteFlightClass ()
- void UpdateAirport ()

Public Attributes

· string name

Properties

```
• FlightClass FlightClass [get, set]
```

- string FlightNumber [get, set]
- Airport Airport [get, set]

6.22.1 Detailed Description

Definition at line 8 of file Flight.cs.

6.22.2 Member Function Documentation

```
6.22.2.1 virtual void AssignmentSysDev4.Flight.Add ( Flight newFlight ) [virtual]
```

Reimplemented in AssignmentSysDev4.CompositeElement (p. 24), and AssignmentSysDev4.Primitive ← Element (p. 36).

Definition at line 20 of file Flight.cs.

```
6.22.2.2 void AssignmentSysDev4.Flight.AddFlight ( )
```

Definition at line 74 of file Flight.cs.

6.22.2.3 void AssignmentSysDev4.Flight.AddFlightClass ()

Definition at line 80 of file Flight.cs.

6.22.2.4 void AssignmentSysDev4.Flight.DeleteFlight ()

Definition at line 63 of file Flight.cs.

6.22.2.5 void AssignmentSysDev4.Flight.DeleteFlightClass ()

Definition at line 94 of file Flight.cs.

```
6.22.2.6 virtual void AssignmentSysDev4.Flight.Display (int indent) [virtual]
Reimplemented in AssignmentSysDev4.CompositeElement (p. 24), and AssignmentSysDev4.Primitive
Element (p. 36).
Definition at line 23 of file Flight.cs.
6.22.2.7 virtual void AssignmentSysDev4.Flight.Remove (Flight newFlight ) [virtual]
Reimplemented in AssignmentSysDev4.CompositeElement (p. 24), and AssignmentSysDev4.Primitive ←
Element (p. 36).
Definition at line 21 of file Flight.cs.
6.22.2.8 void AssignmentSysDev4.Flight.UpdateAirport ( )
Definition at line 101 of file Flight.cs.
6.22.2.9 void AssignmentSysDev4.Flight.UpdateFlight ( )
Definition at line 68 of file Flight.cs.
6.22.2.10 void AssignmentSysDev4.Flight.UpdateFlightClass ( )
Definition at line 87 of file Flight.cs.
6.22.2.11 void AssignmentSysDev4.Flight.ViewFlight()
Definition at line 58 of file Flight.cs.
6.22.3 Member Data Documentation
6.22.3.1 string AssignmentSysDev4.Flight.name
Definition at line 17 of file Flight.cs.
6.22.4
        Property Documentation
6.22.4.1 Airport AssignmentSysDev4.Flight.Airport [get], [set]
Definition at line 48 of file Flight.cs.
6.22.4.2 FlightClass AssignmentSysDev4.FlightClass [get], [set]
Definition at line 25 of file Flight.cs.
6.22.4.3 string AssignmentSysDev4.Flight.FlightNumber [get], [set]
Definition at line 36 of file Flight.cs.
```

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Flight.cs

The documentation for this class was generated from the following file:

6.23 AssignmentSysDev4.FlightClass Class Reference

Public Member Functions

- void AddNewFlightClass ()
- void UpdateFlightClass ()
- void ViewFlightClass ()
- void DeleteFlightClass ()

Properties

- Ticket Ticket [get, set]Ticket Ticket1 [get, set]
- 6.23.1 Detailed Description

Definition at line 8 of file FlightClass.cs.

6.23.2 Member Function Documentation

6.23.2.1 void AssignmentSysDev4.FlightClass.AddNewFlightClass ()

Definition at line 34 of file FlightClass.cs.

6.23.2.2 void AssignmentSysDev4.FlightClass.DeleteFlightClass ()

Definition at line 49 of file FlightClass.cs.

6.23.2.3 void AssignmentSysDev4.FlightClass.UpdateFlightClass ()

Definition at line 39 of file FlightClass.cs.

6.23.2.4 void AssignmentSysDev4.FlightClass.ViewFlightClass ()

Definition at line 44 of file FlightClass.cs.

6.23.3 Property Documentation

6.23.3.1 Ticket AssignmentSysDev4.FlightClass.Ticket [get], [set]

Definition at line 13 of file FlightClass.cs.

 $\textbf{6.23.3.2} \quad \textbf{Ticket AssignmentSysDev4.FlightClass.Ticket1} \quad \texttt{[get], [set]}$

Definition at line 24 of file FlightClass.cs.

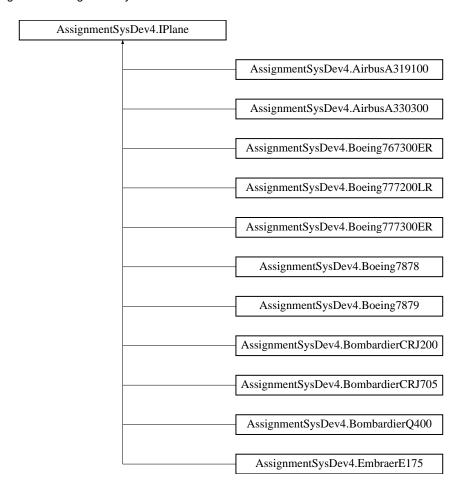
The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/FlightClass.cs

6.24 AssignmentSysDev4.IPlane Interface Reference

Here we use the Factory design pattern to create planes. Each plane has a model, we allow the use of a simple integer model number. In a full system, planes would likely be picked from a list based on a database table.

Inheritance diagram for AssignmentSysDev4.IPlane:



Public Member Functions

• string GetModel ()

6.24.1 Detailed Description

Here we use the Factory design pattern to create planes. Each plane has a model, we allow the use of a simple integer model number. In a full system, planes would likely be picked from a list based on a database table.

Definition at line 15 of file PlaneCreator.cs.

6.24.2 Member Function Documentation

6.24.2.1 string AssignmentSysDev4.IPlane.GetModel ()

Implemented in AssignmentSysDev4.AirbusA319100 (p. 13), AssignmentSysDev4.Boeing767300E ← R (p. 16), AssignmentSysDev4.BombardierQ400 (p. 20), AssignmentSysDev4.BombardierCRJ200 (p. 19), AssignmentSysDev4.BombardierCRJ705 (p. 20), AssignmentSysDev4.EmbraerE175 (p. 27), Assignment ←

SysDev4.Boeing7878 (p. 18), AssignmentSysDev4.Boeing7879 (p. 18), AssignmentSysDev4.AirbusA330300 (p. 13), AssignmentSysDev4.Boeing777200LR (p. 16), and AssignmentSysDev4.Boeing777300ER (p. 17).

The documentation for this interface was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.25 AssignmentSysDev4.Plane.IPlane Interface Reference

Public Member Functions

· string GetModel ()

6.25.1 Detailed Description

Definition at line 15 of file Plane.cs.

6.25.2 Member Function Documentation

6.25.2.1 string AssignmentSysDev4.Plane.IPlane.GetModel ()

The documentation for this interface was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Plane.cs

6.26 AssignmentSysDev4.Plane Class Reference

Classes

· interface IPlane

Public Member Functions

- · void ViewPlane ()
- void UpdatePlane ()
- void DeletePlane ()
- · void AddPlane (int modelNumber)

Properties

• Flight Flight [get, set]

6.26.1 Detailed Description

Definition at line 8 of file Plane.cs.

6.26.2 Member Function Documentation

6.26.2.1 void AssignmentSysDev4.Plane.AddPlane (int modelNumber)

Definition at line 49 of file Plane.cs.

6.26.2.2 void AssignmentSysDev4.Plane.DeletePlane ()

Definition at line 44 of file Plane.cs.

6.26.2.3 void AssignmentSysDev4.Plane.UpdatePlane ()

Definition at line 39 of file Plane.cs.

6.26.2.4 void AssignmentSysDev4.Plane.ViewPlane ()

Definition at line 34 of file Plane.cs.

6.26.3 Property Documentation

6.26.3.1 Flight AssignmentSysDev4.Plane.Flight [get], [set]

Definition at line 24 of file Plane.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Plane.cs

6.27 AssignmentSysDev4.PlaneCreator Class Reference

This Creator class uses a FactoryMethod to determine what type of plane object to set up.

Public Member Functions

• IPlane FactoryMethod (int modelNumber)

6.27.1 Detailed Description

This Creator class uses a FactoryMethod to determine what type of plane object to set up.

Definition at line 149 of file PlaneCreator.cs.

6.27.2 Member Function Documentation

6.27.2.1 IPIane AssignmentSysDev4.PlaneCreator.FactoryMethod (int modelNumber)

Definition at line 151 of file PlaneCreator.cs.

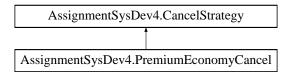
The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/PlaneCreator.cs

6.28 AssignmentSysDev4.PremiumEconomyCancel Class Reference

A 'ConcreteStrategy' class This strategy class allows a Premium Economy ticket's price to be refunded if the ticket is cancelled within 48 hours of purchase.

Inheritance diagram for AssignmentSysDev4.PremiumEconomyCancel:



Public Member Functions

• override bool Cancel (Ticket ticketToCancel)

6.28.1 Detailed Description

A 'ConcreteStrategy' class This strategy class allows a Premium Economy ticket's price to be refunded if the ticket is cancelled within 48 hours of purchase.

Definition at line 85 of file Ticket.cs.

6.28.2 Member Function Documentation

6.28.2.1 override bool AssignmentSysDev4.PremiumEconomyCancel.Cancel (Ticket ticketToCancel) [virtual]

Implements AssignmentSysDev4.CancelStrategy (p. 23).

Definition at line 87 of file Ticket.cs.

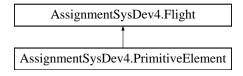
The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Ticket.cs

6.29 AssignmentSysDev4.PrimitiveElement Class Reference

Flights can be primitive elements within the use of the composite pattern. This is because we wish to make lists of flights that offer alternative connections based on times, stopover times, etc. so customers have choices.

Inheritance diagram for AssignmentSysDev4.PrimitiveElement:



Public Member Functions

- · PrimitiveElement (Flight newFlight)
- · override void Add (Flight newFlight)
- override void Remove (Flight wrongFlight)
- override void **Display** (int indent)

Additional Inherited Members

6.29.1 Detailed Description

Flights can be primitive elements within the use of the composite pattern. This is because we wish to make lists of flights that offer alternative connections based on times, stopover times, etc. so customers have choices.

Definition at line 116 of file Flight.cs.

6.29.2 Constructor & Destructor Documentation

6.29.2.1 AssignmentSysDev4.PrimitiveElement.PrimitiveElement (Flight newFlight)

Definition at line 118 of file Flight.cs.

6.29.3 Member Function Documentation

6.29.3.1 override void AssignmentSysDev4.PrimitiveElement.Add (Flight newFlight) [virtual]

Reimplemented from AssignmentSysDev4.Flight (p. 29).

Definition at line 124 of file Flight.cs.

6.29.3.2 override void AssignmentSysDev4.PrimitiveElement.Display (int indent) [virtual]

Reimplemented from AssignmentSysDev4.Flight (p. 30).

Definition at line 136 of file Flight.cs.

6.29.3.3 override void AssignmentSysDev4.PrimitiveElement.Remove (Flight wrongFlight) [virtual]

Reimplemented from **AssignmentSysDev4.Flight** (p. 30).

Definition at line 130 of file Flight.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Flight.cs

6.30 AssignmentSysDev4.Program Class Reference

6.30.1 Detailed Description

An executive employee may want to create a batch of employee Accounts all at once Sometimes companies will hire people for lower level jobs in groups so they can go through orientation and training as a group.

Definition at line 13 of file Program.cs.

The documentation for this class was generated from the following file:

• G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Program.cs

6.31 AssignmentSysDev4.Ticket Class Reference

The ticket class employs different cancellation strategies, set up in individual classes The use of the stragegy pattern for this would, potentially, allow other characteristics of the different ticket classes to be set up.

Public Member Functions

- void SetCancelStrategy (CancelStrategy cancelstrategy)
- · void Cancel ()

Properties

DateTime PurchaseDate [get, set]

6.31.1 Detailed Description

The ticket class employs different cancellation strategies, set up in individual classes The use of the stragegy pattern for this would, potentially, allow other characteristics of the different ticket classes to be set up.

Definition at line 13 of file Ticket.cs.

6.31.2 Member Function Documentation

6.31.2.1 void AssignmentSysDev4.Ticket.Cancel ()

Definition at line 26 of file Ticket.cs.

6.31.2.2 void AssignmentSysDev4.Ticket.SetCancelStrategy (CancelStrategy cancelstrategy)

Definition at line 20 of file Ticket.cs.

6.31.3 Property Documentation

6.31.3.1 DateTime AssignmentSysDev4.Ticket.PurchaseDate [get], [set]

Definition at line 35 of file Ticket.cs.

The documentation for this class was generated from the following file:

G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Ticket.cs

Chapter 7

File Documentation

7.1 G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSys

Dev4/Account.cs File Reference

Classes

- class AssignmentSysDev4.Account
- class AssignmentSysDev4.Account.CustomerViewAccount
- class AssignmentSysDev4.Account.EmployeeViewAccount
- class AssignmentSysDev4.Account.Facade

A Facade is used here to allow Employees to see Detailed information about accounts, while customers have their own view of their account. This will allow the system to do things like allowing employees to simulate a customer's view and see data only to be shared with employees.

Namespaces

- namespace AssignmentSysDev4
- 7.2 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/AssignmentSys

 Dev4/Airline.cs File Reference

Classes

• class AssignmentSysDev4.Airline

Namespaces

- namespace AssignmentSysDev4
- 7.3 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/AssignmentSys

 Dev4/Airport.cs File Reference

Classes

· class AssignmentSysDev4.Airport

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Namespaces

- namespace AssignmentSysDev4
- 7.4 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/AssignmentSys

 Dev4/Brand.cs File Reference

Classes

· class AssignmentSysDev4.Brand

Namespaces

- namespace AssignmentSysDev4
- 7.5 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/AssignmentSys

 Dev4/Customer.cs File Reference

Classes

class AssignmentSysDev4.Customer

Namespaces

- namespace AssignmentSysDev4
- 7.6 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/AssignmentSys

 Dev4/Employee.cs File Reference

Classes

class AssignmentSysDev4.Employee

Namespaces

- namespace AssignmentSysDev4
- 7.7 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/AssignmentSys

 Dev4/Flight.cs File Reference

Classes

- · class AssignmentSysDev4.Flight
- class AssignmentSysDev4.PrimitiveElement

Flights can be primitive elements within the use of the composite pattern. This is because we wish to make lists of flights that offer alternative connections based on times, stopover times, etc. so customers have choices.

· class AssignmentSysDev4.CompositeElement

Flights can also be used as Composite elements because one flight might be 'fixed', i.e. the customer has a narrow window of possible departure times at some point in their journey, but the primitive elements added to the list of the Composite element will be flights that are possible connections. The Composite pattern is used here because it allows for this kind of things, i.e. having a list of items with associated branches or 'leaf' items, and having the data grouped this way for flights will allow the system to show alternative flights to complete a journey.

Namespaces

- namespace AssignmentSysDev4
- 7.8 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/AssignmentSys

 Dev4/FlightClass.cs File Reference

Classes

class AssignmentSysDev4.FlightClass

Namespaces

- namespace AssignmentSysDev4
- 7.9 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/Ass
- 7.10 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/Assignment

 SysDev4/obj/Debug/TemporaryGeneratedFile_5937a670-0e60-4077-877b-f7221da3dda1.cs

 File Reference
- 7.11 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/Assignment

 SysDev4/obj/Debug/TemporaryGeneratedFile_E7A71F73-0F8D-4B9B-B56E-8E70

 B10BC5D3.cs File Reference
- 7.12 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/Assignment SysDev4/Plane.cs File Reference

Classes

- · class AssignmentSysDev4.Plane
- interface AssignmentSysDev4.Plane.IPlane

Namespaces

namespace AssignmentSysDev4

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7.13 G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/Assignment← SysDev4/PlaneCreator.cs File Reference

Classes

• interface AssignmentSysDev4.IPlane

Here we use the Factory design pattern to create planes. Each plane has a model, we allow the use of a simple integer model number. In a full system, planes would likely be picked from a list based on a database table.

class AssignmentSysDev4.Boeing777300ER

This class defines a plane which extends the **IPlane** (p. 32) interface; other plane classes in this file have the same basic code, the different model numbers are specified for each one. This makes it possible to add more individual properties unique to a model of plane.

- class AssignmentSysDev4.Boeing777200LR
- class AssignmentSysDev4.AirbusA330300
- class AssignmentSysDev4.Boeing7879
- class AssignmentSysDev4.Boeing7878
- class AssignmentSysDev4.EmbraerE175
- class AssignmentSysDev4.BombardierCRJ705
- class AssignmentSysDev4.BombardierCRJ200
- class AssignmentSysDev4.BombardierQ400
- class AssignmentSysDev4.Boeing767300ER
- class AssignmentSysDev4.AirbusA319100
- class AssignmentSysDev4.PlaneCreator

This Creator class uses a FactoryMethod to determine what type of plane object to set up.

Namespaces

- namespace AssignmentSysDev4
- 7.14 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/Assignment← SysDev4/Program.cs File Reference

Classes

· class AssignmentSysDev4.Program

Namespaces

- namespace AssignmentSysDev4
- 7.15 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/Assignment

 SysDev4/Properties/AssemblyInfo.cs File Reference
- 7.16 G:/INFO8240 Systems Design/Assignment4/AssignmentSysDev4/Assignment← SysDev4/Ticket.cs File Reference

Classes

• class AssignmentSysDev4.Ticket

7.16 G:/INFO8240 - Systems Design/Assignment4/AssignmentSysDev4/AssignmentSysDev4/Ticket.cs File Reference

The ticket class employs different cancellation strategies, set up in individual classes The use of the stragegy pattern for this would, potentially, allow other characteristics of the different ticket classes to be set up.

- class AssignmentSysDev4.CancelStrategy
- class AssignmentSysDev4.EconomyCancel

A 'ConcreteStrategy' class This stragegy class allows an Economy ticket's purchase price to be refunded if it is cancelled within 24 hours of purchase.

• class AssignmentSysDev4.PremiumEconomyCancel

A 'ConcreteStrategy' class This strategy class allows a Premium Economy ticket's price to be refunded if the ticket is cancelled within 48 hours of purchase.

· class AssignmentSysDev4.BusinessClassCancel

A 'ConcreteStrategy' class This strategy class allows the purchase price of Business class tickets to be refunded if the ticket is cancelled within 96 hours, i.e. four days of puchase

Namespaces

namespace AssignmentSysDev4

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