Class-Responsibility-Collaboration Cards

Only collaborators within our scope are listed. Other subsystems or external providers are not included

User Account	
Superclass:	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains user profile information	
Maintains stored PaymentType information	PaymentType
Maintains user preferences	
Maintains a collection of past and current bookings	Booking
Can register itself	
Can logon	
Can search for Products	Product

Product (abstract)	
Superclass:	
Subclasses: PackageHoliday, Accommodation, Travel	
Responsibilities:	*Collaborators:*
Maintains information common to all Product subclasses	Travel PackageHoliday Accommodation
Has a price	
Has a product reference	
Has a review score	

Travel (abstract)	
Superclass: Product	
Subclass: Flight, Rail, Ferry	
Responsibilities:	*Collaborators:*
Maintains information common to all Travel objects	Flight Rail Ferry
Has a start date and time	
Has a start and end location	Location

Flight	
Superclass: Travel	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains information regarding flight details	
Is bookable	

Rail	
Superclass: Travel	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains information regarding rail journey	
Is bookable	

Ferry	
Superclass: Travel	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains information regarding ferry crossing	
Is bookable	

Accommodation	
Superclass: Product	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains information about an Accommodation object	
Has an accommodation type	
Has a location	Location
Has a star rating	
Has a start and end date	
Is bookable	

Package Holiday	
Superclass: Product	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains information about a PackageHoliday	
Has a description	
Has a start and end date	
Has a start location	Location
Has a destination	
Is bookable	

Booking	
Superclass:	
Subclass:	
Responsibilities:	*Collaborators:*
Has one or more Products	Product
Is payable	Payment
Is viewable	
Is cancellable	

Payment	
Superclass:	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains details of Payment Information	PaymentType
Has a value	
Has one or more PaymentTypes	
May have a PaymentCard authentication code	
Can send itself to payment subsystem	

PaymentType (abstract)	
Superclass:	
Subclass: PaymentCard, Voucher	
Responsibilities:	*Collaborators:*
Superclass representing the different payment types of payment that can be used	PaymentCard Voucher

PaymentCard	
Superclass: PaymentType	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains card details	
Can verify itself	

Voucher	
Superclass: PaymentType	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains voucher details	
Can verify itself	

Search Results	
Superclass:	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains a collection of Products that satisfy some set of search criteria	Product
Can sort itself	
Can filter itself	

Location	
Superclass:	
Subclass:	
Responsibilities:	*Collaborators:*
Maintains information about a location	
Has Name	
Has Address information	
Has Latitude and Longitude	