Responsibilities of a class are things it knows and things it does. Terminology used here:

Has – this is required

May have – this is optional

Maintains – used where class contains a collection of zero more objects

|  |  |
| --- | --- |
| User Account | |
| *Superclass:* | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Maintains user profile information |  |
| Maintains stored payment method information |  |
| Maintains user preferences |  |
| Maintains a collection of past and current bookings | Booking |
|  |  |

|  |  |
| --- | --- |
| Product (abstract) | |
| *Superclass:* | |
| *Subclasses:*  PackageHoliday, Accommodation, Journey | |
| *Responsibilities:* | *Collaborators:* |
| A superclass maintaining information about a journey or accommodation product | Journey  PackageHoliday  Accommodation |
| Has a product reference |  |
| Has a price |  |
|  |  |

|  |  |
| --- | --- |
| Journey | |
| *Superclass:* Product | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Maintains information about a particular journey – dates, start and end location |  |
| Has a transport type |  |
| Is bookable |  |
|  |  |

|  |  |
| --- | --- |
| Accommodation | |
| *Superclass:* Product | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Maintains details about the accommodation |  |
| Maintains information |  |
| Is able to calculate its review score |  |
| Has a star rating |  |
| Is reviewable | Review |
|  |  |

NB – we don’t seem to have allowed anywhere for searching etc by number of beds

|  |  |
| --- | --- |
| Package Holiday | |
| *Superclass:* Product | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Maintains information about a PackageHoliday |  |
| Is reviewable |  |
| Maintains a collection of reviews | Review |
|  |  |

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

|  |  |
| --- | --- |
| Payment | |
| *Superclass:* | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Maintains a collection of Travpedia Vouchers used | Travpedia Voucher |
| May know details of payment card used | Payment card |
| May know card authorization code |  |
| Can send itself to payment subsystem |  |

|  |  |
| --- | --- |
| Search Results | |
| *Superclass:* | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Has criteria | Travel Product |
| Maintains a collection of Travel Products that satisfy its criteria |  |
| Can sort itself by price or review score |  |
| Can filter itself by price range, review score, board basis or star rating | Review |
|  |  |

|  |  |
| --- | --- |
| Review | |
| *Superclass:* | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Maintains all information pertaining | Accommodation |
|  | PackageHoliday |
|  |  |

* Collaborates with Third Party Consortium – outside our scope?

NB if we are not storing vouchers, need to update assumptions to reflect the fact that vouchers can only be used for full face value (no change given)