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:* |
| Has user logon details |  |
| May have a Payment Card | Payment Card |
| Has mailing preferences |  |
| Maintains a collection of past and current bookings | Booking |
| Can search for Travel Products | Search Results |
| Can make a booking |  |
| Can view a booking |  |
| Can delete a booking |  |

|  |  |
| --- | --- |
| Travel Product (abstract) | |
| *Superclass:* | |
| *Subclasses:*  Package Holiday, Accommodation, Journey | |
| *Responsibilities:* | *Collaborators:* |
| Has a product price |  |
| Has start and end dates |  |
| Has start location and end location (may be the same) | Location |

|  |  |
| --- | --- |
| Package Holiday | |
| *Superclass:* Travel Product | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Has a name and description |  |
| Has a package reference code |  |
| Maintains a collection of reviews | Review |
|  |  |

|  |  |
| --- | --- |
| Accommodation | |
| *Superclass:* Travel Product | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Has a name |  |
| Has a type |  |
| Has a star rating |  |
| Maintains a collection of reviews | Review |

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

|  |  |
| --- | --- |
| Journey | |
| *Superclass:* Travel Product | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Has a name |  |
| Has a transport type |  |
|  |  |

Journey doesn’t seem to work as well as some of the other classes – would we be better to just deal with flights and car hire as two separate classes and ditch journey (this seems to be what Expedia does)

|  |  |
| --- | --- |
| 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 |  |

* Collaborates with Third Party Consortium – outside our scope?

|  |  |
| --- | --- |
| Payment Card | |
| *Superclass:* | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Maintains card details |  |
| Can check its expiry date |  |

|  |  |
| --- | --- |
| Travpedia Voucher | |
| *Superclass:* | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Has a value |  |
| Has a voucher code |  |
| Has an expiry date |  |
| Can verify itself |  |
|  |  |

* Collaborates with database – outside 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)

|  |  |
| --- | --- |
| 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 |
|  |  |

Do we just have to list Travel Product or the subtypes

|  |  |
| --- | --- |
| Location | |
| *Superclass:* | |
| *Subclass:* | |
| *Responsibilities:* | *Collaborators:* |
| Has Name |  |
| Has Street Address |  |
| Has City |  |
| Has Country |  |
| Has Latitude and Longitude |  |

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