|  |  |
| --- | --- |
| User | |
| Superclass : | |
| Subclass : | |
| Responsibilities  Stores name of user  Stores ID of user | Collaborating Classes  RoomBook  CabBookDistanceBased  CabBookTimeBased  CabBookDestinationBased |

|  |  |
| --- | --- |
| Login | |
| Superclass : | |
| Subclass : | |
| Responsibilities  Authenticate ID |  |

|  |  |
| --- | --- |
| Room | |
| Superclass : | |
| Subclass : | |
| Responsibilities  Stores room no.  Stores capacity of a room  Stores projector option for a room  Stores status of a room | Collaborating Classes  RoomBook |

|  |  |
| --- | --- |
| Cab | |
| Superclass : | |
| Subclass : | |
| Responsibilities  Stores cab no.  Stores cab driver name  Stores cab type  Stores capacity of a cab  Stores status of a cab | Collaborating Classes  CabBookDistanceBased  CabBookTimeBased  CabBookDestinationBased |

|  |  |
| --- | --- |
| Book <<abstract>> | |
| Superclass : | |
| Subclass : RoomBook , CabBook | |
| Responsibilities  Check for validity of ID  Provide option for selecting a time slot  Cancel booking  Provide option to check the status of booking | Collaborating Classes  RoomDatabase  CabDatabase |

|  |  |
| --- | --- |
| RoomBook | |
| Superclass : Book | |
| Subclass : | |
| Responsibilities  Give options for selecting room requirements  Output list of available rooms based on requirements | Collaborating Classes  User  Book  Room  RoomDatabase |

|  |  |
| --- | --- |
| CabBook <<abstract>> | |
| Superclass : Book | |
| Subclass : CabBookDistanceBased, CabBookTimeBased, CabBookDestinationBased | |
| Responsibilities  Gives options to select basis of booking a cab | Collaborating Classes  Book |

|  |  |
| --- | --- |
| CabBookDistanceBased | |
| Superclass : CabBook | |
| Subclass : | |
| Responsibilities  Gives options for selecting cab requirements  Provides option to input distance  output fare  Output list of available rooms based on requirements | Collaborating Classes  User  Cab  CabBook  CabDatabase |

|  |  |
| --- | --- |
| CabBookTimeBased | |
| Superclass : CabBook | |
| Subclass : | |
| Responsibilities  Gives options for selecting requirements  Provides option to take time input  output fare  Output list of available rooms based on requirements | Collaborating Classes  User  Cab  CabBook  CabDatabase |

|  |  |
| --- | --- |
| CabBookDestinationBased | |
| Superclass : CabBook | |
| Subclass : | |
| Responsibilities  Gives options for selecting requirements  Provides option to select destination  output fare  Output list of available rooms based on requirements | Collaborating Classes  User  Cab  CabBook  CabDatabase |

|  |  |
| --- | --- |
| RoomDatabase | |
| Superclass : | |
| Subclass : | |
| Responsibilities  Stores all the room booking details in a file | Collaborating Classes  User  RoomBook  Room |

|  |  |
| --- | --- |
| CabDatabase | |
| Superclass : | |
| Subclass : | |
| Responsibilities  Stores all the cab booking details in a file | Collaborating Classes  User  CabBook  CabBookDistanceBased  CabBookTimeBased  CabBookDestinationBased  Cab |

|  |  |
| --- | --- |
| Driver | |
| Superclass : | |
| Subclass : | |
| Responsibilities  Gives options to choose cab or room booking  Gives login options (admin/user) | Collaborating Classes  Roombook  CabBook |