*CRC Card*

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** User | **ID:** HM-01 | | **Type:** Concrete, Domain | |
| **Description:** People who use our service without an account. | | | **Associated Use Cases:** 1, 2 | |
| **Responsibilities**  RegisterNewAccount  SendRegistrationForm  Login | | **Collaborators**  RegistrationForm  AccountDatabase  AccountDatabase | |

**Back:**

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| **Attributes:** |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** -  **Other Associations:** RegistrationForm, AccountDatabase |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** Member | **ID:** HM-02 | | **Type:** Concrete, Domain | |
| **Description:** People who logged in with client authority | | | **Associated Use Cases:** 3,4,5,6,8,9 | |
| **Responsibilities**  ChangeAccountInformationRequest  AlternateProviderAuthority  DeleteAccountRequest  SearchServiceRequest  ReserveProvider  SendReserveForm  CreatePaymentInformation  SendPaymentInformation  RatingProvider  CancelReservation  SendCancelReservationForm  CreatePost  CommentPost  DeletePost  SearchPost | | **Collaborators**  AccountDatabase  -  AccountDatabase  AccountDatabase  ReservationForm  CooperateManager  PaymentInfo  AccountDatabase  AccountDatabase  CancelReservationForm  AccountDatabase  Post  Comment  Post  PostList | |

**Back:**

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| **Attributes:**  Account (account) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** -  **Other Associations:** AccountDatabase, ReservationForm, CooperateManager, CancelReservationForm, PaymentInfo, Post, Comment, Post list |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** ProviderMember | **ID:** HM-03 | | **Type:** Concrete, Domain | |
| **Description:** Member who has provider authority | | | **Associated Use Cases:** - | |
| **Responsibilities**  Change providing service  Change Portfolio  Send request to header  Confirm\_reservation | | **Collaborators**  AccountDatabase  AccountDatabase  Member  CooperateManager | |

**Back:**

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| --- |
| **Attributes:**  StartDate (Date)  EndDate (Date)  Status (int)  ClientUsername (String) |
| **Relationships**:  **Generalization (a-kind-of):** Member  **Aggregation (has-parts):** -  **Other Associations:** AccountDatabase, Member, Cooperate Manager |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** CooperateManager | **ID:** HM-04 | | **Type:** Concrete, Domain | |
| **Description:** Member who manage the reservation service | | | **Associated Use Cases:** 6, 8, 9 | |
| **Responsibilities**  CreateRatingForm  SendRatingForm  Sent3DaysAnnouncement  SentFinishworkAnnouncement  SentCancelAnnouncementToClient  SentCancelAnnouncementToProvider  RequestProviderReserveConfirmation  SentReserveConfirmation  UpdateWorkStatusRequest | | **Collaborators**  RatingForm  AccountDatabase  Member  Member  Member  ProviderMember  ProviderMember  Member  AccountDatabase | |

**Back:**

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| --- |
| **Attributes:**  ManagerID (int)  FirstName (String)  Surname (String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** -  **Other Associations:** RatingForm, Member, ProviderMember, AccountDatabase |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** WebsiteManager | **ID:** HM-05 | | **Type:** Concrete, Domain | |
| **Description:** Member who manage the account and post | | | **Associated Use Cases:** - | |
| **Responsibilities**  Delete account request  Delete post | | **Collaborators**  AccountDatabase  Post | |

**Back:**

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| **Attributes:**  ManagerID (int)  FirstName (String)  Surname (String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** -  **Other Associations:** AccountDatabase, Post |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** Account | **ID:** HM-06 | | **Type:** Concrete, Domain | |
| **Description:** The information of member | | | **Associated Use Cases:** 1,3,4,6,8 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  MemberID (int)  Username (String)  FirstName (String)  Surname (String)  CompanyName (String)  Birth date (Date)  Address (String)  CitizenID (int)  Tell (int)  EmailAddress (String)  Authority (int)  Service (Service)  Portfolio (Portfolio)  Rating (float) |
| **Relationships**:  **Generalization (a-kind-of):** AccountList  **Aggregation (has-parts):** -  **Other Associations:** - |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** Portfolio | **ID:** HM-07 | | **Type:** Concrete, Domain | |
| **Description:** Range of investments held by member | | | **Associated Use Cases:** 5 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  Description (String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Account  **Other Associations:** - |

**Front:**

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| **Class Name:** RegistrationForm | **ID:** HM-08 | | **Type:** Concrete, Domain | |
| **Description:** The form that contain account information for registering process | | | **Associated Use Cases:** 1 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| --- |
| **Attributes:**  Username (String)  FirstName (String)  Surname (String)  CompanyName (String)  Birth date (Date)  Address (String)  CitizenID (int)  Tell (int)  EmailAddress (String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** User  **Other Associations:** - |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** ReservationForm | **ID:** HM-09 | | **Type:** Concrete, Domain | |
| **Description:** The form that contain reservation information for reservation a provide member | | | **Associated Use Cases:** 6 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  CompanyName (String)  Address (String)  Tell (int)  ProjectHeader (String)  Detail (String)  StartDate (Date)  EndDate (Date)  PaymentMethod (String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Member  **Other Associations:** - |

**Front:**

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| **Class Name:** CancelReservationForm | **ID:** HM-10 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to cancel the provider work | | | **Associated Use Cases:** 9 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  ClientUsername (String)  Detail (String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Member  **Other Associations:** - |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** RatingForm | **ID:** HM-11 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to rate the provider | | | **Associated Use Cases:** 8, 9 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  ClientUsername (String)  Rating (Float)  Detail (String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Member  **Other Associations:** - |

**Front:**

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| **Class Name:** Service | **ID:** HM-12 | | **Type:** Concrete, Domain | |
| **Description:** Contain the specialist of the provider member | | | **Associated Use Cases:** 5 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  Type of service (String)  Pay (int)  Description (String) |
| **Relationships**:  **Generalization (a-kind-of):** ServiceList  **Aggregation (has-parts):** -  **Other Associations:** - |

**Front:**

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| **Class Name:** AccountList | **ID:** HM-13 | | **Type:** Concrete, Domain | |
| **Description:** Contain all of account | | | **Associated Use Cases:** 1 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  AccountList (Account) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** -  **Other Associations:** - |

**Front:**

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| **Class Name:** ServiceList | **ID:** HM-14 | | **Type:** Concrete, Domain | |
| **Description:** Contain all of service | | | **Associated Use Cases:** 5 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  ServiceList (Service) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** -  **Other Associations:** - |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** PaymentInfo | **ID:** HM-15 | | **Type:** Concrete, Domain | |
| **Description:** Contain the member payment information | | | **Associated Use Cases:** 7 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  CardName (String)  CardID (int)  ExpDate (String)  CCV (int) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Member  **Other Associations:** - |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** AccountDatabase | **ID:** HM-16 | | **Type:** Concrete, Domain | |
| **Description:** The center of system that contain and manage account | | | **Associated Use Cases:** 1,2,3,4,5,7,9,10 | |
| **Responsibilities**  CheckValidID  UpdateRating  CreateAccount  ChangeAccountInfo  DeleteAccount  SearchService  CancelReservationNotice  FinishReservationNotice | | **Collaborators**  AccountList  Account  Account  Account  Account  Account  CooperateManager  CooperateManager | |

**Back:**

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| **Attributes:**  - |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** -  **Other Associations:** Account, AccountList, CooperateManager |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** Post | **ID:** HM-17 | | **Type:** Concrete, Domain | |
| **Description:** Display in a public place (in system) by the Member | | | **Associated Use Cases:** - | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| --- |
| **Attributes:**  Username (String)  Title (String)  Content (String) |
| **Relationships**:  **Generalization (a-kind-of):** PostList  **Aggregation (has-parts):** -  **Other Associations:** - |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** PostList | **ID:** HM-18 | | **Type:** Concrete, Domain | |
| **Description:** Contain all of post | | | **Associated Use Cases:** - | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  Post (Post) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** -  **Other Associations:** - |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** Comment | **ID:** HM-19 | | **Type:** Concrete, Domain | |
| **Description:** Remark expressing an opinion or reaction in post. | | | **Associated Use Cases:** - | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| --- |
| **Attributes:**  Username(String)  Post (Post)  Content (String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Post  **Other Associations:** - |