*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(RegistrationForm)  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:** 2-4, 6-11, 13-15 | |
| **Responsibilities**  ChangeAccountInformationRequest(ChangeAccountForm)  AlternateProviderAuthority()  DeleteAccountRequest()  SearchServiceRequest(SearchForm)  ReserveProvider(ReservationForm)  CreatePaymentInformation(PaymentInfo)  RatingProvider()  CancelReservation(CancelReservationForm)  CreatePost(PostForm)  CommentPost(CommentForm)  DeletePost()  SearchPost(SearchPostForm) | | **Collaborators**  AccountDatabase  AccountDatabase  AccountDatabase  AccountDatabase  CooperateManager  PaymentInfo  AccountDatabase  AccountDatabase  Banner  Banner  Banner  Banner |

**Back:**

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| **Attributes:**  Account (account) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** -  **Other Associations:** AccountDatabase, ReservationForm, CooperateManager, CancelReservationForm, ChangeAccountInfo, 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:** 8, 17, 18 | |
| **Responsibilities**  ChangeProvidingService()  ChangePortfolio(PortfolioForm)  SendRequestToHeader(WorkRequestForm)  Confirm\_reservation() | | **Collaborators**  AccountDatabase  AccountDatabase  Member  CooperateManager | |

**Back:**

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| --- |
| **Attributes:**  Account(Account) |
| **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:** 8, 10, 11, 12 | |
| **Responsibilities**  SendRatingForm(RatingForm)  Sent3DaysAnnouncement()  SentFinishworkAnnouncement()  SentCancelAnnouncementToClient()  SentCancelAnnouncementToProvider()  RequestProviderReserveConfirmation()  SentReserveConfirmation()  UpdateWorkStatusRequest() | | **Collaborators**  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:** 5, 15 | |
| **Responsibilities**  DeleteAccountRequest(DeleteAccountForm)  DeletePost() | | **Collaborators**  AccountDatabase  Banner | |

**Back:**

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

**Front:**

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| **Class Name:** Account | **ID:** HM-06 | | **Type:** Concrete, Domain | |
| **Description:** The information of member | | | **Associated Use Cases:** 1, 4, 6, 12 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  ID (String)  Password(String)  FirstName (String)  Surname (String)  CompanyName (String)  Country(String)  Address (String)  Tell (String)  EmailAddress (String)  AccountNumber(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:** 17 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

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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:**  ID (String)  Password(String)  FirstName (String)  Surname (String)  Address (String)  Country(String)  Tell (String)  EmailAddress (String)  AccountNumber(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:** 8 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  ProviderID(String)  CompanyName (String)  CompanyAddress (String)  Tell (String)  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:** 11 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

**Front:**

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| **Class Name:** ChangeAccountForm | **ID:** HM-11 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to change account information | | | **Associated Use Cases:** 3 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| --- |
| **Attributes:**  FirstName (String)  Surname (String)  Address (String)  Country (String)  Tell (String)  AccountNumber (String)  NewPassword(String)  Password(String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Member  **Other Associations:** - |

**Front:**

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| **Class Name:** DeleteAccountForm | **ID:** HM-12 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to delete account | | | **Associated Use Cases:** 5 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

**Front:**

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| **Class Name:** SearchForm | **ID:** HM-13 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to search service | | | **Associated Use Cases:** 7 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  TypeOfService (String)  ScopeOfService(String)  Country(String)  StartDate (Date)  ProviderID (String)  Salary(Float)  Description (String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Member  **Other Associations:** - |

**Front:**

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| **Class Name:** SearchPostForm | **ID:** HM-14 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to search post | | | **Associated Use Cases:** 16 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| --- |
| **Attributes:**  Title (String)  ID (String)  TypeOfService (String)  ScopeOfService(String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Member  **Other Associations:** - |

**Front:**

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| **Class Name:** PostForm | **ID:** HM-15 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to post on the banner | | | **Associated Use Cases:** 13 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

**Front:**

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| **Class Name:** CommentForm | **ID:** HM-16 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to comment on the post | | | **Associated Use Cases:** 14 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

**Front:**

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| **Class Name:** PortfolioForm | **ID:** HM-17 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to update portfolio | | | **Associated Use Cases:** 17 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

**Front:**

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| **Class Name:** WorkRequestForm | **ID:** HM-18 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to send request for wok in post | | | **Associated Use Cases:** 11,12 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

**Front:**

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| **Class Name:** RatingForm | **ID:** HM-19 | | **Type:** Concrete, Domain | |
| **Description:** The form that use to rate the provider | | | **Associated Use Cases:** 7 | |
| **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:** - |

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| **Class Name:** Service | **ID:** HM-20 | | **Type:** Concrete, Domain | |
| **Description:** Contain the specialist of the provider member | | | **Associated Use Cases:** 2 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  TypeOfService (String)  ScopeOfService(String)  Country(String)  StartDate (Date)  EndDate (Date)  Status (int)  ProviderID (String)  ClientID (String)  Salary(Float)  Description (String) |
| **Relationships**:  **Generalization (a-kind-of):** ServiceList  **Aggregation (has-parts):** -  **Other Associations:** - |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** AccountList | **ID:** HM-20 | | **Type:** Concrete, Domain | |
| **Description:** Contain all of account | | | **Associated Use Cases:** 2 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

**Front:**

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| **Class Name:** ServiceList | **ID:** HM-21 | | **Type:** Concrete, Domain | |
| **Description:** Contain all of service | | | **Associated Use Cases:** 7 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

**Front:**

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| **Class Name:** PaymentInfo | **ID:** HM-22 | | **Type:** Concrete, Domain | |
| **Description:** Contain the member payment information | | | **Associated Use Cases:** 9 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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

**Front:**

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| **Class Name:** AccountDatabase | **ID:** HM-23 | | **Type:** Concrete, Domain | |
| **Description:** The center of system that contain and manage account | | | **Associated Use Cases:** 1-9, 11,12,17 | |
| **Responsibilities**  CheckValidID(RegistrationForm)  CreateAccount(RegistrationForm)  ChangeAccountInfo()  DeleteAccount()  UpdateRating()  SearchService()  CancelReservationNotice()  FinishReservationNotice()  AlternateProviderAuthority()  CheckValidPortfolio(PortfolioForm)  UpdatePortfolio(PortfolioForm) | | **Collaborators**  -  Account  Account  Account  Account  Account  CooperateManager  CooperateManager  Account  -  Portfolio | |

**Back:**

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

**Front:**

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| **Class Name:** Post | **ID:** HM-24 | | **Type:** Concrete, Domain | |
| **Description:** Display in a public place (in system) by the Member | | | **Associated Use Cases:** 13,16,18 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  ID (String)  Title (String)  TypeOfService (String)  Detail (String)  Date (Date)  Time (String) |
| **Relationships**:  **Generalization (a-kind-of):** Banner  **Aggregation (has-parts):** -  **Other Associations:** - |

**Front:**

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| --- | --- | --- | --- | --- |
| **Class Name:** Banner | **ID:** HM-25 | | **Type:** Concrete, Domain | |
| **Description:** Contain all of post | | | **Associated Use Cases:** 13-16, 18 | |
| **Responsibilities**  -CheckValidPost(PostForm)  -CreatePost(PostForm)  -CheckValidComment(CommentForm)  -createComment(CommentForm)  -CheckDelete()  -DeletePost()  -CheckValidSearch  -SendPost()  -CheckValidReserve(WorkRequestForm)  -ReservePost() | | **Collaborators**  -  -  -  -  -  -  -  -  -  - | |

**Back:**

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

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| --- | --- | --- | --- | --- |
| **Class Name:** Comment | **ID:** HM-26 | | **Type:** Concrete, Domain | |
| **Description:** Remark expressing an opinion or reaction in post. | | | **Associated Use Cases:** 14 | |
| **Responsibilities**  - | | **Collaborators**  - | |

**Back:**

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| **Attributes:**  CommentNumber (int)  ID (String)  Post (Post)  Detail (String)  Date(String)  Time(String) |
| **Relationships**:  **Generalization (a-kind-of):** -  **Aggregation (has-parts):** Post  **Other Associations:** - |