Model

Business Layer

Facades

ReservationFacade
-memberName
-memberName

TableFacade
-memberName
-memberName

MenuFacade
-memberName
-memberName

SalonFacade
-memberName
-memberName

CustomerFacade
-memberName
-memberName

OrderFacade
-memberName
-memberName

FeedbackFacade
-memberName
-memberName

DTO

StaffDTO
-memberName

RoleDTO
-memberName

CustomerDTO
-memberName

SalonDTO
-memberName

TableDTO
-memberName

MenuDTO
-memberName

OrderStatusDTO
-memberName

FeedbackDTO
-memberName

OrderDTO
-memberName

TableReservationDTO
-memberName

SalonReservationDTO
-memberName

Services

MailSender
+ sendEmail(String address, String content)

Data Access Layer

Entities

<<Interface>>
IEntity<TKey>
- Id : TKey
+ getID() : TKey

Order
- Status : OrderStatus
- Bookables : Collection<IBookable>
+ Order()
+ getStatus() : OrderStatus
+ setStatus(OrderStatus) : void
+ getBookables() : Collection<IBookable>
+ setBookables(Collection<IBookable>) : void

Feedback
- Text : String
- Date : DateTime
- Contact : String
+ Feedback(String time, DateTime date, String contact)
+ getText() : String
+ getDate() : String
+ getContact() : String

<<use>>

<<Enumeration>>
OrderStatus
<<constan>> + ACCEPTED
<<constan>> + PREPARING
<<constan>> + DONE
<<constan>> + SERVED
<<constan>> + PAID

Menu
- Content : String
- ValidityStart : DateTime
- ValidityEnd : DateTime
+ Menu(String content, DateTime start, DateTime end)
+ getContent() : String
+ setContent(String content) : void
+ getValidityStart() : DateTime
+ setValidityStart(DateTime time) : void
+ getValidityEnd() : DateTime
+ setValidityEnd(DateTime time) : void

<<abstract>>
Reservation<UUID>
- Customer : Customer
- IsConfirmed : boolean
- ReservationTime : DateTime
- ReservationStartTime : DateTime
- ReservationEndTime : DateTime
- IsCanceled : boolean
- IsRedeemed : boolean
- NumberOfPeople : short
- Note : String
- ReservationType : ReservationType
- Bookables : Collection<IBookable>
+ getCustomer() : Customer
+ getReservationTime() : DateTime
+ getReservationStartTime() : DateTime
+ setReservationStartTime(DateTime time) : void
+ getReservationEndTime() : DateTime
+ setReservationEndTime(DateTime time) : void
+ isReservationCanceled() : boolean
+ isReservationRedeemed() : boolean
+ getNumberOfPeople() : short
+ getNote() : String
+ setNote(String note) : void
+ getReservationType() : ReservationType

Customer<int>
- Name : String
- Telephone : String
- Email : String
+ Customer(String name, String telephone, String email)
+ getName() : String
+ setName(String name) : void
+ getTelephone() : String
+ setTelephone(String phone) : void
+ getEmail() : String
+ setEmail(String email) : void

<<use>>

<<Enumeration>>
ReservationType
<<constan>> + SALON
<<constan>> + TABLE

SalonReservation<UUID>
- Salon : Salon
+ SalonReservation(DateTime resTime, DateTime resStartTime, DateTime resEndTime, short peopleCount, String note, int customerId)
+ getSalon() : Salon

TableReservation<UUID>
- Table : Table
+ TableReservation(DateTime resTime, DateTime resStartTime, DateTime resEndTime, short peopleCount, String note, int customerId)
+ getTable() : Table

Staff
- StaffType : RoleEnum
+ Staff(RoleEnum role)
+ getStaffType() : RoleEnum

<<use>>

<<Enumeration>>
Role
<<constan>> + KITCHEN
<<constan>> + OFFICE
<<constan>> + SERVER
<<constan>> + MANAGEMENT

<<Interface>>
IBookable<int>
- IsFree : boolean
- Orders : Collection<IBookable>

Salon<int>
- Capacity : int
+ Salon(int capacity)
+ getCapacity() : int
+ setCapacity(int capacity) : void

Table<int>
- SeatsCount : int
+ Table(int seatsCount)
+ getSeats Count() : int
+ setSeatsCount(int count) : void

<<singleton>> DatabaseContext
1
+ Feedbacks : Collection<Feedback>
+ Orders : Collection<Order>
+ Menus : Collection<Menu>
+ Reservations : Collection<Reservation>
+ Customers : Collection<Customer>
+ Staff : Collection<Staff>
+ Salons : Collection<IBookable>
+ Tables : Collecion<IBookable>
+ ReservationTypes : Collection<ReservationType>
+ Roles : Colection<Role>
+ OrderStatus : Collection<OrderStatus>
+DatabaseContext()

ViewModels

StaffViewModel
- ReservationFacade : ReservationFacade
+ StaffViewModel()

KitchenStaffViewModel
- MenuFacade : MenuFacade
- OrderFacade : OrderFacade
- MailSender : MailSender
+KitchenStaffViewModel()

OfficeStaffViewModel
-memberName
+OfficeStaffViewModel()

ServerStaffViewModel
-memberName
+ServerStaffViewModel

ManagementViewModel
-memberName
+ManagementViewModel()

CustomerViewModel
- ReservationFacade : ReservationFacade
- FeedbackFacade : FeedbackFacade
+CustomerViewModel()

MenuViewModel
-
+MenuViewModel()

Views

CustomerView
-memberName
-memberName

ReservationView
-memberName
-memberName

RestaurantView
-memberName
-memberName

MenuView
-memberName
-memberName

OrderView
-memberName
-memberName