

Service Specification

Task

Customer Account Management

CaptureCustomerData ()
CaptureCreditData ()
CreateAccount ()
MakeAccount (): accountDetails: UserAccount
Login(username: string, password: string)
UpdateAccount()
DeleteAccount()
MakeAccountConfirmation(confirm: string, type: string): confirmation: message

Appointment

BrowseService()
CheckSlotAvailability()
SelectService()
CaptureAppointmentRequest()
SelectSlot()
CheckSlotAvailability(slots: String) : confirm: Boolean
HoldSlots(slots:String)
Releasehold(slot:String)
ChargeCreditCard (ccNo: String, amount: currency): approval: string
MakeBooking()
MakeBookingConfirmation(confirm: String, type: String): confirmation: Message
initiateDelivery()

Refund

CheckServiceStatus()
CheckPaymentDetails()
InitiateRefund()
UpdateRefundStatus()

Enquiry

MakeEnquiry()

Entity

Customer

CheckAccount(Email(sting), password(string))
CheckLoginSuccessful(code(integer))
Add(name: Name, email: sting, customer_username: string, phone number: integer)
Update(name: Name, email: sting, customer_username: string, phone number: integer)
Get(): customerDetails: Customer

Confirmation

SendConfirmation (email:string, confirmation: Message): Boolean
Add(confirm No: string, confirmDate: Date, confirmation: MessageDelivered: Boolean)

Services

Add(Service name:String, Start time:time, Service Date: Date)
Update(Service name:String, Start time:time, Date: Date)

Cancel(Service id: string, reason: String)

Appointment

Add(appointmentID: String, booking date: Date, category: String, amountpaid: Currency): confirm: String

Credit card

CheckCCNO (ccno: String): validFlag: Boolean

CheckType (ccno: String, type: String): validFlag: Boolean

CheckExpired (expiry: Date): expired: Boolean

MakePayment(ccno: String, amount: Currency, processor: String): confirm: Boolean

Add(ccno: String, type: String, expiry: Date, name:Name): confirm:string

Update(ccno: String, type)

Refunds

CheckbookingStaus(IsCancelled:boolean)

refundPayment(ccDetails:string, dateofRefund: Date)

Utility

Email

SendMessage (recipientEmail: string, message: Message, protocol:string) : confirm: Boolean

DBMS

AuthenticateDBUser(dbuserid: string, dbpassword: string, database:connectString)

RetrieveData(query: Query, database: Connectstring)

insertRow(insertQuery: Query, database: ConnectString)

updateRow(updateQuery:Query, database: ConnectString)

DeleteRow(deleteQuery:Query, database: ConnectString)

Data Validator

ValidateName(name:Name) : ValidFlag: Boolean, errors: String[]

ValidateAddress(address:Address) : ValidFlag: Boolean, errors: String[]

ValidatePhone(phone:String) : ValidFlag

Payment Processor

Authorize(ccno:String, amount:Currency, creditProcessorPhone:String): approval : String[]