Service Specification

Task

User Account Management

PawsAuthentication ()

CaptureuserData ()

CaptureCreditData ()

CreateAccount ()

MakeAccount (): accountDetails: UserAccount

MakeStudent (): studentDetails: student

MakeManagement(): ManagementDetails

MakeOrganizer(): OrganizerDetails

Login(username: string, password: string)

UpdateAccount()

DeleteAccount()

MakeAccountConfirmation(confirm: string, type: string): confirmation: message

Event Management

CaptureEventData()

CaptureEventRequirements()

CaptureNewEventData()

UpdateEvent()

DeleteEvent()

MakeEventConfirmation()

Purchase of tickets

CaptureTicketRequest()

CheckSeatAvailability(event:String, ticketCount: integer) : confirm: Boolean

HoldSeats(event:String, ticketCount:Integer)

Releasehold(event:String, ticketCount:Integer)

ChargeCreditCard (ccNo: String, amount: currency): approval: string

MakePurchase()

MakePurchaseConfirmation(confirm: String, type: String): confirmation: Message

initiateDelivery()

Selection of Events

BrowseEvent()

CheckSeatAvailability()

SelectEvent()

SelectSeat()

RedirectToPayment()

Event Approval

CheckOverlapVenue()

CaptureAdvertisingData()

CaptureLogisticsData()

UpdateDate()

Refund Processing

CheckEventStatus()

CheckPaymentDetails()

InitiateRefund()

UpdateRefundStatus()

Enquiry

MakeEnquiry()

Report

CreateReport(reportName: String, reportParameters: String[])

Entity

Student

CheckAccount(Email(sting), password(string))

CheckLoginSuccessful(code(integer))

Add(name: Name, email: sting, student_id: string, phone number: integer)

Update(name: Name, email: sting, student_id: string, phone number: integer)

Get(): studentDetails: Student

Confirmation

SendConfirmation (email:string, confirmation: Message): Boolean

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

Event

Add(Event name:String, Start time:time, Event Date: Date, Event No: integer)

Update(Event name:String, Start time:time, Event Date: Date, Event No: integer)

Cancel(Event id: string, reason: String)

GetTicketcount(event:string, status:string) count: integer

Event Organizer

Add(name: string, department: string, Event Details: string, school id: string)

Update((name: string, department: string, Event Details: string, school id: string))

CheckApproval(email:string)

Event Logistics Data

GetConfirmation(email:string)

UpdateLogisticRequirements(string)

CheckAvailability(requirement:string, item price:integer)

Event Support

VerifyEventManually(Name:String, phoneno: integer, designation:string, date:date, venue: string)

MakeApprovalStatus(IsApproved:boolean)

handleEnquiries(information:string)

Archived Event

CheckDateofEvent(date:date)

Event Confirmation

MakeCreateConfirmation(status:string)

MakeUpdateConfirmation(status:string)

MakeDeletionConfirmation(status:string)

CheckApprovalStatus(Approved: Boolean, reason: string)

MakeConfirmation(EventDetails:string, IsApproved:boolean)

Venue Seats

CheckVenueCap(totalNumber:integer)

CheckSeatArrangement(Map:Map)

Ticket

Add(ticketNo: String, dateIssued: Date, category: String, pricepaid: Currency): confirm: String

Get() ticketDetails : Ticket

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

CheckEventStatus(IsHappening:boolean)

refundPayment(ccDetails:string, dateofRefund: Date)

Utility

Mail

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

Mobile

sendMMS(phone: String, barcodes[]: String, protocol: String) : confirm: Boolean

sendWAP(phone:string, url : string, protocol: string) : confirm: Boolean

SendText(phone: String, ticketCode: String, protocol: String) : confirm: Boolean

Payment Processor

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

Version Details:

Version	Date	Description	Author
Initial Draft	September 14th 2022	First Draft is submitted. Core processes for the project are identified.	Gayathri Peri, Sanjeev Peri, Karthik Sudarshan, Asrith Krishna
Service Planning	October 5th 2022	All the services are identified and service planning is done.	Gayathri Peri, Sanjeev Peri, Karthik Sudarshan, Asrith Krishna
Service Oriented Analysis	November 2nd 2022	Report represents the detailed analysis for our application Event Enrollment, address the modelling and analysis aspects of service-oriented development.	Gayathri Peri, Sanjeev Peri, Karthik Sudarshan, Asrith Krishna
Service Oriented Design	December 7th 2022	Submitted all the artifacts required for designing of event enrollment.	Gayathri Peri, Sanjeev Peri, Karthik Sudarshan, Asrith Krishna