PROJECT DELIVERABLE 2
USE Case Contracts (60%)

USE CASE: MANAGE BOOKINGS

OC 1:

Operation:BookAService(bookId:String)
Cross References: UseCase: Manage Bookings
PreConditions: A registered authenticated user has been logged in to the system.
PostConditions:

- A BOOKING instance b was created.
- The BOOKING instance b was associated with BookingDescription for details of booking.
- b.bookId became id in booking description
- b was also associated with the Services.
- ServiceID in services became ServiceID in Bookings.
- Based on ServiceId match, b was associated with the ServiceDetails for the details of the service that was to be booked.

OC 2:

Operation: CancelBooking(bookId:String)
Cross References: UseCase: Manage Bookings
PreConditions: A registered authenticated logged in user has already booked a service. (Now he wants to cancel that service)
PostConditions:

- The BOOKING instance b was associated with BookingDescription for details of the booking that was to be cancelled.
- b.bookId became id in booking description
- b iwas also associated with the Services.
- ServiceID in services became ServiceID in Bookings.
- Based on ServiceId match, b was associated with the ServiceDetails for the details of the service that was to be cancelled.

OC 3:

Operation: PayForBooking(bookId:String)
Cross References: UseCase: Manage Bookings

PreConditions: A registered authenticated logged in user has already booked a service. (Now he wants to pay for that service)
PostConditions:

- The BOOKING instance b was associated with BookingDescription for details of the booking that's booked.
- b.bookId became id in booking description
- Based on bookID match, b was associated with Payments to choose payment methods to pay.

USE CASE: MANAGE ONLINE PAYMENTS

OC 1:

Operation: DepositCash/MakePayment(Id:String)
Cross References: UseCase: Manage Online Payments
PreConditions: A registered authenticated logged in user has already booked a service. (Now he wants to pay for it online)
PostConditions:

- A PAYMENT instance p was created.
- p was associated with PaymentDescription for details of payment
- Id in Payment became ID in PaymentDescription
- P was also associated with Bookings
- bookID in Bookings became bookingId in Payments
- Payment Done message was generated

OC2:

Operation: ReturnCash(Id:String)
Cross References: UseCase: Manage Online Payments
PreConditions: A registered authenticated logged in user has done payment for a service and The system owes him his returns in case of extra amount.
PostConditions:

- Payment instance p was associated with PaymentDescription for details of payment
- Payment to be returned was got through the payment details
- Id in Payment became ID in PaymentDescription
- p was also associated with Bookings
- bookID in Bookings became bookingId in Payment
- Cash Returned message was generated after system deposited the cash to user's account and details of the respective booking were updated

USE CASE: MANAGE HOME PAGE

OC1:

Operation: DisplayRolesSection() {static}
Cross References: UseCase: Manage Home Page
PreConditions: Some Person opened the link to XPLORE PAKISTAN application and is Exploring the home page.
PostConditions:

- User Roles are displayed on the home page (No associations needed as the function is a static one)

OC2:

Operation: DisplayServicesSection() {static}
Cross References: UseCase: Manage Home Page
PreConditions: Some Person opened the link to XPLORE PAKISTAN application and is Exploring the home page.
PostConditions:

- Service Section was displayed. (No associations needed as the function is a static one)

OC3:

Operation: DisplayContractSection() {static}
Cross References: UseCase: Manage Home Page
PreConditions: Some Person opened the link to XPLORE PAKISTAN application and is Exploring the home page.
PostConditions:

- Contract Section was displayed. (No associations needed as the function is a static one)

OC4:

Operation: DisplayNewsFeed()
Cross References: UseCase: Manage Home Page
PreConditions: Some Person opened the link to XPLORE PAKISTAN application and is Exploring the home page.
PostConditions:

- A HOMEPAGE instance hp was created.
- Hp was associated with NewsFeed
- NewsFeed section was displayed.

USE CASE: Manage tourists and service providers' communication and interactions

OC1:

Operation: CommunicateViaEmail((TouristId:string, ServiceProviderId:string, emailInstance:Email)
Cross References: UseCase: Manage tourists and service providers' communication and interactions
PreConditions: Registered authenticated users (service providers and tourists) have been logged in to the system. (They need to interact now)
PostConditions:

- An instance c of Communication was created.
- C was associated with both the ServiceProvider Class and the Tourist Class
- Id in Tourist became SenderID in Communication class and Id in ServiceProvider became RecieverID in Communication class OR VICE VERSA depending upon who started the communication and who is responding
- An instance of Email e was also created
- c was associated with Email Class also to use Email class Functions

OC2:

Operation: CommunicateViaMessages(TouristId:string, ServiceProviderId:sring, MessagesInstance:Message)
Cross References: UseCase: Manage tourists and service providers' communication and interactions
PreConditions: Registered authenticated users (service providers and tourists) have been logged in to the system. (They need to interact now)
PostConditions:

- An instance c of Communication was created.
- C was associated with both the ServiceProvider Class and the Tourist Class
- Id in Tourist became SenderID in Communication class and Id in ServiceProvider became RecieverID in Communication class OR VICE VERSA depending upon who started the communication and who is responding
- An instance of message m was also created
- c was associated with Message Class also to use Message class Functions

OC3:

Operation: CommunicateViaCalls(TouristId:string, ServiceProviderId:string, CallsInstance:Calls)
Cross References: UseCase: Manage tourists and service providers' communication and interactions
PreConditions: Registered authenticated users (service providers and tourists) have been logged in to the system. (They need to interact now)
PostConditions:

- An instance c of Communication was created.
- C was associated with both the ServiceProvider Class and the Tourist Class

- Id in Tourist became SenderID in Communication class and Id in ServiceProvider became RecieverID in Communication class OR VICE VERSA depending upon who started the communication and who is responding
- An instance of Calls call was also created
- c was associated with Calls Class also to use its Functions

OC4:

Operation: CommunicateViaMeetings((TouristId:string, ServiceProviderId:string, MeetingsInstance:Meetings)
Cross References: UseCase: Manage tourists and service providers' communication and interactions
PreConditions: Registered authenticated users (service providers and tourists) have been logged in to the system. (They need to interact now)
PostConditions:

- An instance c of Communication was created.
- C was associated with both the ServiceProvider Class and the Tourist Class
- Id in Tourist became SenderID in Communication class and Id in ServiceProvider became RecieverID in Communication class OR VICE VERSA depending upon who started the communication and who's responding
- An instance of Meetings meet was also created
- c was associated with Meeting Class also to use its Functions

USE CASE: MANAGE KNOW HOW SECTIONS

OC 1:

Operation: AddSection()
Cross References: UseCase: Manage Know How Sections
PreConditions: A registered authenticated user(either a tourist or a serviceprovider or an admin) is logged in to the application.
PostConditions:

- An instance of KnowHowSection khs was created.
- Khs was associated with Services
- ServiceID in services became id in KnowHowSection class
- knowHowSection of the particular service was added

OC 2:

Operation: UpdateSection(Id:String)
Cross References: UseCase: Manage Know How Sections
PreConditions: A registered authenticated user(either a tourist or a serviceprovider or an admin) is logged in to the application.
PostConditions:

- KnowHowSection instance Khs was associated with Services

- ServiceID in services became id in KnowHowSection class
- Depending on given Id, knowHowSection of the particular service was updated

OC 3:

Operation: DeleteSection(Id:String)
Cross References: UseCase: Manage Know How Sections
PreConditions: A registered authenticated user(either a tourist or a serviceprovider or an admin) is logged in to the application.
PostConditions:

- KnowHowSection instance Khs was associated with Services
- ServiceID in services became id in KnowHowSection class
- Depending on given Id, knowHowSection of the particular service was deleted.

USE CASE: MANAGE SERVICE PROVIDER CONTRACTS

OC 1:

Operation: SignContract()
Cross References: UseCase: Manage Service Provider Contracts
PreConditions: A registered, authenticated service provider is logged in to the application
PostConditions:

- An instance of Contracts contract was created
- Contract was associated with the ServiceProvider Class for the contract to be signed by service provider
- ServiceProviderID in serviceProvider class became serviceId in Contracts class
- Contract was also associated with Admin&Moderator

OC 2:

Operation: scheduleNegotiation()
Cross References: UseCase: Manage Service Provider Contracts
PreConditions: A registered, authenticated service provider is logged in to the application and a contract is being signed between the Service Provider and Admin
PostConditions:

- Contract was associated with the ServiceProvider Class for scheduling negotiation
- ServiceProviderID in serviceProvider class became serviceId in Contracts class

- Contract was also associated with Admin&Moderator for scheduling negotiation

OC 3:

Operation: provideCustomization()
Cross References: UseCase: Manage Service Provider Contracts
PreConditions: A registered, authenticated service provider is logged in to the application and a contract is being signed between the Service Provider and Admin

PostConditions:

- Contract was associated with the ServiceProvider Class
- ServiceProviderID in serviceProvider class became serviceId in Contracts class
- Contract was also associated with Admin&Moderator to provide any customization that the service provider asks for

USE CASE: MANAGE HELP & SUPPORT

OC 1:

Operation: ManageFAQs() {static}
Cross References: UseCase: Manage Help and Support
PreConditions: An authenticated registered user has been logged in to the system and wants to seek help regarding the application.
PostConditions:

- An instance of Help&Support hs was created
- FAQS were modified
- Hs was associated with EndUser
- Hs was associated with ServiceProvider
- Hs was associated with Tourist

OC 2:

Operation: ProvideAssistance() {static}
Cross References: UseCase: Manage Help and Support
PreConditions: An authenticated registered user has been logged in to the system and wants to seek help regarding the application.
PostConditions:

- An instance of Help&Support hs was created
- Assistance providing information was updated
- Hs was associated with EndUser
- Hs was associated with ServiceProvider

- Hs was associated with Tourist

OC 3:

Operation: DisplayDocumentation() {static}
Cross References: UseCase: Manage Help and Support
PreConditions: An authenticated registered user has been logged in to the system and asks for help regarding the app
PostConditions:

- An instance of Help&Support hs was created
- Documentation was displayed
- Hs was associated with EndUser
- Hs was associated with ServiceProvider
- Hs was associated with Tourist

USE CASE: MANAGE UI CUSTOMIZATION

OC 1:

Operation: ChooseUI()
Cross References: UseCase: Manage UI Customization
PreConditions: A registered authenticated service provider or tourist or admin has been logged in to the system.
PostConditions:

- An instance of UICustomization uic was created
- UICustomization was associated with Tourist or ServiceProvider Class
- UICustomization was also associated with UI for list of UI's to be represented to be choosen

OC 2:

Operation: ApplyUI()
Cross References: UseCase: Manage UI Customization
PreConditions: A registered authenticated service provider or tourist or admin has been logged in to the system and A UI has already been chosen for customization
PostConditions:

- UICustomization was associated with Tourist or ServiceProvider Class
- UICustomization was also associated with UI
- Chosen UI was applied after operation execution

OC 3:

Operation: SetToDefault()
Cross References: UseCase: Manage UI Customization
PreConditions: A registered authenticated service provider or tourist or admin has been logged in to the system
PostConditions:

- An instance of UICustomization uic was created
- UICustomization was associated with Tourist or ServiceProvider Class
- UICustomization was also associated with UI
- Default UI was applied after operation execution

OC 4:

Operation: ModifyUI()
Cross References: UseCase: Manage UI Customization
PreConditions: A registered authenticated service provider or tourist or admin has been logged in to the system and UI has already been applied on customization request
PostConditions:

- UICustomization was associated with Tourist or ServiceProvider Class
- UICustomization was also associated with UI
- UI was modified after operation execution

GLOSSARY

OC: Operational Contract
REGISTERED USER: A registered user is a user of a website, program, or other system who has previously signed in to the application
PRE CONDITIONS: A precondition is the state of the system and its surroundings that is required before the use case can be started
POST CONDITIONS: A postcondition is the states the system can be in after the use case has ended.
CROSS REFERENCE; a reference to another text or part of a text, typically given in order to elaborate on a point.
OPERATION: Occurring Event
INSTANCE; object
API; Application Programming Interface,, a software intermediary that allows two applications to talk to each other.
p: instance of payment
hp: instance of homepage
t: instance of tourist
sp: instance of service provider
khs: instance of Know-How Section
c: instance of communication
m:instance of message
e: instance of email
call: instance of calls class
meet: Instance of Meeting Class
contract : instance of Contract class
hs: instance of HELP&SUPPORT class
Negotiation; the action or process of transferring legal ownership of a document.
Documentation: material that provides official information or evidence or that serves as a record.
Uic: instance of UICUSTOMIZATION