1. getAvailableSlots

* Description: request a City, a date, hand out all available slots:
* Caller: Badminton Player
* Request: getASlots(City, date)
* Response:
* Success: if the request is approved -> SuccessCode + cityname, array of (centralID, venueSlots), where venueSlots is an array of (venueID, courtSlots), where courseSlots is an array of (courseID, Slots), where Slots is an array of (Start hour, End hour)
* Error: if fail
* the server will send back **malformed request syntax**, where this error occurs when the player enters city name and date in a wrong format
* there is no array of info appear in the screen -> missing request-> can’t get available slot form the storage.

1. createBooking

* Description: for a given day, court, start-end hour, player info, making a booking
* Caller: Badminton Player
* Request: createBooking(playerID, court, date, start, end)
* Response:
* Success: SuccessCode + **Booking Successful**
* Error: if fail
* the available time full so that the booking is rejected
* 504 Gateway Timeout + where the booking of the person X haven’t been response in time by the server as there is request form another client.

1. cancelBooking

* Description: for a given bookingID, cancel that booking
* Caller: Badminton Player
* Request: cancelBooking(bookingID)
* Response:
* Success: SuccessCode + **Cancel Successful**
* Error: if fail
* the cancelBooking is rejected because the player cancels after the deadline (before 24h of the starting-time).

1. getPlayerBooking

* Description: for a given playerID, date and city, view all the bookings for that day
* Caller: Badminton Players/Staff
* Request: getPlayerBooking(playerID, date, city)
* Response:
* Success: SuccessCode + array of (centreId, venueBookings), where venueBookings is an array of (venueID, courtBookings), where courtBookings is an array of (courtID, bookings), where bookings is an array of (Start hour, End hour)
* Error: if fail
* when the staff or player request to retrieve all booking at that day, the screen will pop up a message **DNS Server isn’t responding**

1. getVenueBooking

* Description: for a given venueID and date, get all the bookings of that venue
* Caller: Staff
* Request: getVenueBooking(venueID, date)
* Response:
* Success: SuccessCode + array of (courtId, bookings), where bookings is an array of (startHour, endHour)
* Error: if fail
* 504 Gateway Timeout + where the staff X wait for a response form server but another staff Y also request to the server through app or browser.

1. getBookingInfo

* Description: for a given bookingID, get all the booking info
* Caller: Staff
* Request: getBookingInfo(bookingID)
* Response:
* Success: SuccessCode
* Error: if fail
* 504 Gateway Timeout + where the staff X wait for a response form server but another staff Y also request to the server through app or browser.

1. updateBookingPaymentStatus

* Description: for a bookingID, update the booking’s payment status
* Caller: Staff
* Request: updateBookingPaymentStatus(bookingID, statusID)
* Response:
* Success: SuccessCode + **status has been updated**
* Error: if fail
* When the staff X click update for that booking, server response Conflict and the status is remained
* Too many requests form staff X that the server can’t afford all at the time

1. getNameCity/getNameVenue/getNameCourt/getNamePlayer

* Description: for a given cityId/venueId/courtId/userId, get the corresponding name (to display)
* security/caller: Staff, Badminton Player
* request: getNameCity(cityID), getNameVenue(venueID), getNameCourt(courtID), getNamePlayer(playerID)
* Response:
* Success: SuccessCode + nam of the city/venue/court/player
* Error: if fail
* the server will send back **malformed request syntax**, where this error occurs when the player enters city name and date in a wrong format.
* 504 Gateway Timeout + when there is too much request pending to response and lots of request are going to be made.