Class Diagram for the Appointment Booking System

User

username : string
password : string

User(username:string, password:string,ctype:string) :User
getUsername( ) : string
getPassword ( ) :string
setUsername(username:string) : boolean
setPassword(password:string) : boolean

Bussiness

User : username
name : string
address : string
phone : string
bussinessName : string
question : string
answer : string

Bussiness(name:string,address:string....)
searchBussiness(username:string):bool
displayBussinessDetails(username:string)
addBussinessDetails(business:Business)

Employee

employeeId : integer
businessId : integer
name : string
address : string
phone : string

Employee(id:int,username:string,..): Employee
addEmployee(employee:Employee)
viewAvailability(username:string)

WorkTime

worktimeId : integer
employeeId : integer
businessId : integer
startDateTime : date/time
localDateTime : date/time

Customer

customerId : integer
name : string
address : string
phone : string
question : string
answer : string

Customer(name:string,......):Customer
getName() : String
getAddress() : string
getPhone() : string
getQuestion() : string
getAnswer() : string
setName(name: string) : boolean
setAddress(address: string) : boolean
setPhone(phone:string) : boolean
setQuestion(question:string) : boolean
setAnswer(answer:string) : boolean

Schedule

scheduleId : integer
Bussiness:username
timeStart : date/time
timeEnd : date/time

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addAllowedDays(date/time)
addAllowedTimes (date/time)
getAllowedDays( ) : string[....]
getAllowedTimes ( ) : date/time[....]

Booking

bookingId : integer
scheduleId : integer
personForId :string
date : date/time
status : enum

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makeBooking(User : username)
viewBooking(User : username)
trackBooking(User: username , Booking : id)
viewSummary ( )
checkDoubleBooking(date/time , date/time)

AuthenticationController

currentUser: User

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register() :boolean
login() :user
resetPassword( ):User

BookingController

currentUser: User

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displayBooking() :User
checkDoubleBooking :boolean
checkCurrentUserIsCustomer :boolean

BusinessOwnerController

currentUser: User

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displayerBusinessOwnerOperationsView: user

EmployeeController

currentUser: User

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displayAddEmployeeView:boolean
displayAddWorkTime:boolean
displayEmployeeAvailability:boolean

CustomerController

currentUser: User

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updateCustomerInfo:user
populateCustomerInfo:user