Payment Processor

- paymentAccepted: Boolean
- cost: Float

+ PaymentProcessor(hostID, cardInformation, cost)
+ generateReciept(hostID, cost): FPDF
+ setPaymentAccepted(paymentAccepted): Void
+ isPaymentAccepted(): Boolean

Admin

+removeUser(userID)
+removeListing(listingID)
+viewReports()
+manageUsers()

AuthenticationModule

- userName: String
- password: String

+ AuthenticationModule(name:String, password:String)
- checkUserName(): Boolean
- decryptPassword(): String
- checkPassword(): Boolean

Traveler

- skills: String[]
- dayBooked: DateTime
- currentHost: Host
- visitedHostsIDs: Int[]

+ sendMessage(userID, message)
+ leaveReview(hostID: int, content: String, rating: int): void

User

- userID: integer
- userName: String
- phoneNumber: String
- encryptedPassword: String
- users: Array??
- email: String
- role: String

+ getName(): String
+ setName(name): String
+ setPhoneNumber(number): String
+ getEmail(): String
+ getPhoneNumber: String
+ getEncryptedPass(): String
+ resetPassword(): Void

Host

- description: String
- accomidation: String
- country: String
- requiredHelp: String
- title: String
- stateID: File
- datesAvailable: DateTime
- category: String
- learningOpportunities: String
- spokenLanguages: String[]
- cardInformation: String

+ appendLanguage(languages[?]): Void
+ removeLanguage(spokenLanguages[?]): Void
+ getRequiredHelp: String
+ setStateID(stateID): Void
+ setRequiredHelp():Void
+ getCategory(): String
+ setCategory(Category): Void
+ getCountry(): String
+ setCounty(Category): Void
+ validateCard(cardInformation): Boolean
+ getCardInformation(): String

MessageManager

- messages: List<Message>

+ getConversation(otherID: int): Message[]

Message

- messageID: int
- senderID: int
- receiverID: int
- content: String
- isRead: Boolean

+ Message(senderID: Int, recieverID: Int, content: String)
- generateMessageID(): Int
+ sendMessage(content):boolean
+ getIsRead(): Boolean
+ setIsRead(isRead): Void

DBConnection

- host: String
- username: String
- password: String
- databaseName: String
- connection: mysqli

+ connect(): void
+ getConnection(): mysqli

Review

- reviewID: int
- travelerID: int
- hostID: int
- rating: int
- comment: String
- date: DateTime

+ Review(reviewID: int ,travelerID: int ,hostID: int ,rating: int ,comment: String ,date: DateTime) Getters

Search

- location: String
- category: String
- duration: String

+setLocation():void
+setCategory():void
+setDuration():void
+getLocation():String
+getCategory():String
+getDuration():String