

 Database

```

-TABLE USERS: String
-DATABASE NAME: String
-DATABASE VERSION: int
-Id: String
-Role: String
-FFirstName: String
-LastName: String
-Email: String
-Password: String
-PhoneNum: String
-Degree: String
-Course: String
-Program: String
-RegistrationDate: String
>Status: String
-slotTable: String
-idSlot: String
-tutorIdSlot: String
-dateSlot: String
-startTimeSlot: String
-endTimeSlot: String
-studentBooking: String
-periodTable: String
-autoApprove: String
-periodId: String
-slotId: String
-startTime: String
-endTime: String
-SessionRequests: String
-requestId: String
-tutorRating: String
-numberOfRating: String
-tutorId: String
-ratedCol: String

+Database(context: Context)
+onCreate(db: SQLiteDatabase): void
+onUpgrade(db: SQLiteDatabase, previous: int, newVersion: int): void
+addUser(user: User): void
+checkUser(email: String, password: String): boolean
+getUserRole(email: String, password: String): String
+getUserRegistrationStatus(email: String, password: String): String
+getPendingRegistrationRequests(): List
+getApprovedRegistrationRequests(): List
+getRejectedRegistrationRequests(): List
+getRegistrationRequestsByStatus(String status): List
+approveRegistrationRequest(int userId): boolean
+rejecteRegistrationRequest(int userId): boolean
+setRegistrationToPending(int userId): boolean
+updateRegistrationStatus(int userId, String newStatus): boolean
+getUserById(int userId): RegistrationRequest
+resetDatabase(): void
+getUserIdByEmail(String email): int
+addSlot(int tutorId, String date, String startTime, String endTime, int autoApproveValue): long
+removeSlot(int slotId): boolean
+addPeriod(int slotId, String startTime, String endTime): long
+getSlotsForTutor(int tutorId): Cursor
+getAllSlots(): Cursor
+ConvertToInt(String time): int
+ConvertToString(int time): String
+nextPeriod(String time): String
+getPeriods(String startTime, String endTime): int
+bookPeriod(int periodId, String studentID): void
+cancelBooking(int periodId): int
+autoApprove(int periodId): void
+NoautoApprove(int periodId): void
+getPeriodById(int periodId): Cursor
+studentHasExistingRequestForPeriod(int studentId, int periodId): boolean
+studentHasOverlappingSession(int studentId, int periodId): boolean
+addSessionRequest(int periodId, int slotId, int studentId, String requestDate, boolean autoApprove): long
+approveRequest(int requestIdValue): boolean
+rejectRequest(int requestIdValue): boolean
+cancelRequest(int requestIdValue): boolean
+updateRequestStatus(int requestIdValue, String status): boolean
+markRequestRated(int requestIdValue): boolean
+isRequestRated(int requestIdValue): boolean
+getPendingRequestsForTutor(int tutorId): Cursor
+getBookedTutoringSessionsStudent(int studentId): Cursor
+getAllStudentSessions(int studentId): Cursor
+markCompletedSessionsForStudent(int studentId): void
+slotHasBookings(int slotId): boolean
+cancelTutoringSessionStudent(int periodId): boolean
+SearchperiodBycoursename(String courseName, int studentId): Cursor
+calculateTutorNewRating(int tutorID,int newRating): vd
+updateTutorRating(int tutorID,int numberOfRatings,float newAverage): void

```



