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classDiagram
    class ContactInfo {
        -telephoneNumber: String
        -email: String
        -address: String
        -name: String
        +update(newinfo: ContactInfo): Boolean
    }
    class AccountManagement {
        -accountNumber: int (unique)
        -owner: User
        +addMoney(money: int): boolean
        +makePayment(money: int): boolean
        +getOwner(): User
        +getAccountNumber(): int
    }
    class User {
        -name: String
        -bankAccount: AccountManagement
        -contactInfo: ContactInfo
        -ratings: LocalStatistics
        -id: int
        +getContactInfo(): ContactInfo
        +createStatistics(): Boolean
        +login(User: User): Boolean
        +createContactInfo(): ContactInfo
        +createAccountManager(): AccountManagement
        +createPreferences(): Preferences
        +openChatRoom(): Message
    }
    class Payment {
        -request: Request
        -confirmed: Boolean
        +makePayment(): Boolean
    }
    class LocalStatistics {
        -userId: int
        -loginCount: int
        -activityCount: int
        +addStatistic(): Boolean
    }
    class Preferences {
        -duration: int
        -time: Time
        +update(newPreferences: Preferences): Boolean
    }
    class Message {
        -message: string
        -recipient: User
        -sender: User
        +sendMessage(): Boolean
        +showChatHistory(): ArrayList<Messages>
    }
    class Requester {
        +postRequest(job: Request): boolean
        +confirmPayment(): Boolean
    }
    class Responder {
        -responses: ArrayList<Response>
        +respond(response: Response): Boolean
    }
    class Feedback {
        -rating: int
        -comment: String
        -request: Request
        +makeFeedback(): Boolean
    }
    class FeedbackRequester {
        -author: Responder
        -recipient: Requester
    }
    class FeedbackResponder {
        -author: Requester
        -resipent: Responder
    }
    class Scheduler {
        -preferenceResponder: Preferences
        -preferenceRequester: Preferences
        -requester: Requester
        -responder: Responder
        +isResponderAvailable(): Boolean
        +notifyResponse(): Boolean
        +sendRequestToResponder(): Boolean
        +sendFeedback(feedback: Feedback): Boolean
    }
    class Request {
        -title: String
        -ready: boolean
        -requesterID: int
        -startTime: Date
        -endTime: Date
        -responderID: int
        -requestPreferences: Preferences
        -Id: int
        +cancel(): Boolean
        +sendRequest(): Boolean
    }
    class ContactEngine {
        -matches: ArrayList<Responder>
        -request: Request
        -finalMatch: Responder
        +notify(): Boolean
        +doMatch(): ArrayList<Responder>
        +log(): Boolean
        +makePayment(): Boolean
        +cancelRequest(): Boolean
        +getInstance(): ContactEngine
    }
    class Learning {
        -feedback: ArrayList<Feedback>
        +isMatchOk(): Boolean
        +learn(): Boolean
        +computeFeedback(): Boolean
        +suitableUser(): Boolean
    }
    class Notification {
        -response: Response
        +notifyResponse(requester: Requester): Boolean
    }
    class DB {
        +field
        +addToDB(log: Logging): null
    }
    class Logging {
        -Logs: ArrayList<Log>
        +log(log: Log): Boolean
    }
    class Log {
        +logUser(): Boolean
        +logFeedback(): Boolean
        +logRequest(): Boolean
    }
    class Matcher {
        -allResponders: ArrayList<Responder>
        +makeMatch(request: Request): ArrayList<Responder>
        +redoMatch(oldMatch: ArrayList<Responder>): ArrayList<Responder>
        +findGoodResponders(): Boolean
        +getAllResponders(): Boolean
    }

    ContactInfo "1" -- "1" AccountManagement
    AccountManagement "1" -- "1" User
    User "1" -- "N" Payment
    User "1" -- "1" LocalStatistics
    User "1" -- "1" Preferences
    User "1" -- "N" Message
    User "1" -- "1" Requester
    User "1" -- "N" Responder
    User "1" -- "N" Feedback
    User "1" -- "1" FeedbackRequester
    User "1" -- "1" FeedbackResponder
    User "1" -- "1" Scheduler
    User "1" -- "N" Request
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    User "1" -- "1" Matcher

    Requester "1" -- "N" Responder
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    ContactEngine "1" -- "N" Learning
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    Learning "1" -- "N" Notification
    Learning "1" -- "N" DB
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    Notification "1" -- "N" DB
    Notification "1" -- "N" Logging
    Notification "1" -- "N" Log
    Notification "1" -- "N" Matcher

    DB "1" -- "N" Logging
    DB "1" -- "N" Log
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    Logging "1" -- "N" Log
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    Log "1" -- "N" Matcher

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