

```
@startuml
class User {
  +email: String
  +password: String
  +userld: integer
  +history(): void
  +invoiceUpload(): void
  +invoiceCorrection(invoiceId: int): void
  +invoiceDeletion(invoiceId: int): void
  +refundRequest(invoice: Invoice): void
}
class Administrator extends User {
  +adminId: integer
  +refundExport(): void
  +payrollExport(user: User, payroll: double): void
  +invoiceOverview(): List
  +searchUser(userId: integer): User
  +editUser(email: String, password: String, userId: integer): void
  +editRefund(invoiceId: Invoice): double
  +markAnomalies(user: User): void
}
class Invoice {
  +id: int
  +date: Date
  +amount: float
  +category: String
}
class OCR {
  +textRecognition(file: Invoice): String
  +invoiceClassification(type: String): String
  +amountRecognition(file: Invoice): double
}
class Refund {
  +state: String
  +getAmount(invoiceType: String): double
  +dayLimitation(date: Invoice, userId: User): boolean
  +notAdmin(admin: Administrator, user: User): boolean
}
class Authentification {
  +login(email: String, password: String): void
  +logout(user: User): void
}
```

User "1" --> "*" Invoice : "uploads"
User --> Authentification : "has to login"

User --> Refund : "requests"

Administrator --> Refund : "administrates"

OCR --> Invoice : "analyses"

Refund --> User: "receives confirmation"

Refund --> OCR : "uses" OCR --> Refund : "supports"

@enduml