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Birsel Epik

# KDV & User Management Panel

## JavaFX Project



Birsel Epik

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- **Project Title:** KDV & User Management Panel
- **Student Name:** Birsal Epik
- **Supervisor:** MSc. Hamit Mizrak
- **Date:** March 4 February – April 29, 2025
- **Department / Program:** JavaCore - JavaFX



# Project Purpose



- A desktop application designed for companies.
- Provides user management, KDV calculations, note-taking, and system management features.
- Offers a secure and personalized experience based on user roles.

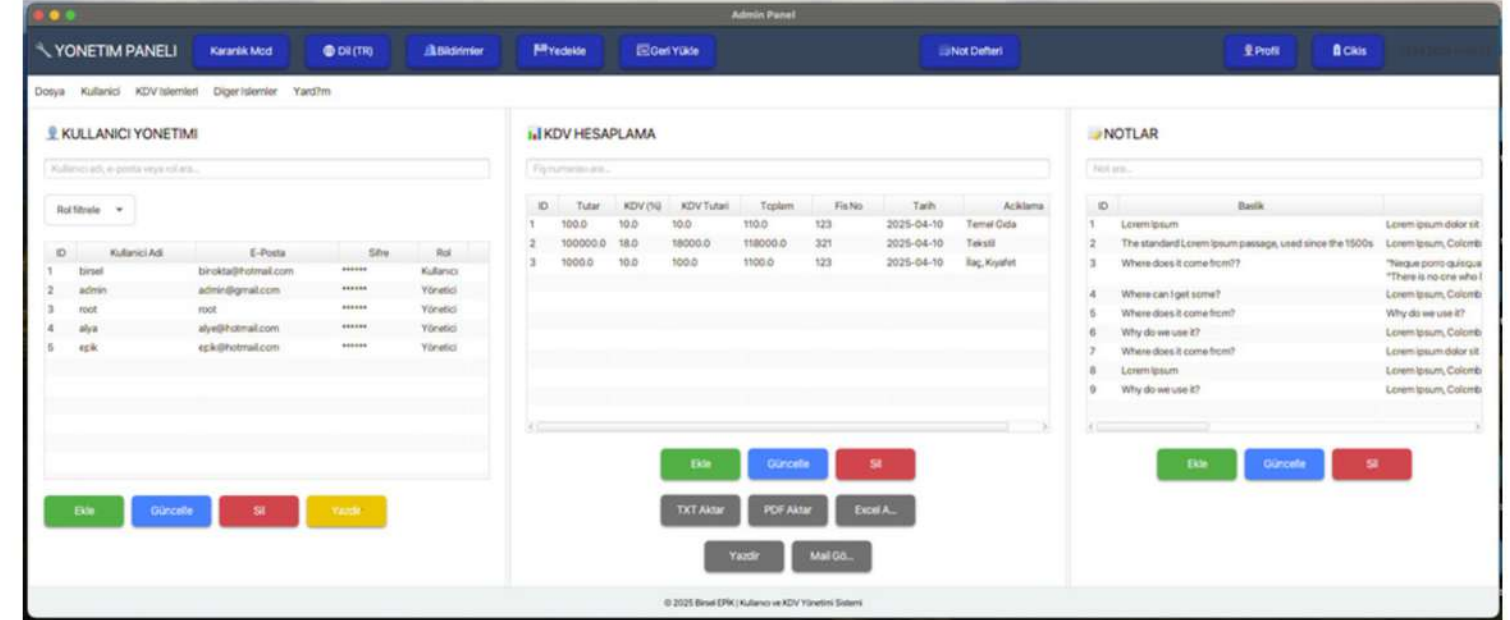





# Key Features



- Role-based user management (Admin, Operator, User)
- KDV calculation and receipt management
- Theme and multi-language support (Light/Dark, Turkish/English)
- Notification system
- Notepad with reminder functionality
- Backup and restore options
- Real-time clock and date display







# Technologies Used & Modules

## TECHNOLOGIES USED

- Languages & UI: Java Core, JavaFX, FXML
- Database: H2 DB
- Security: BCrypt password encryption
- Exporting: Apache POI, PDFBox
- Scheduler: Timeline / ScheduledExecutorService
- Mail [Optional]: JavaMail API



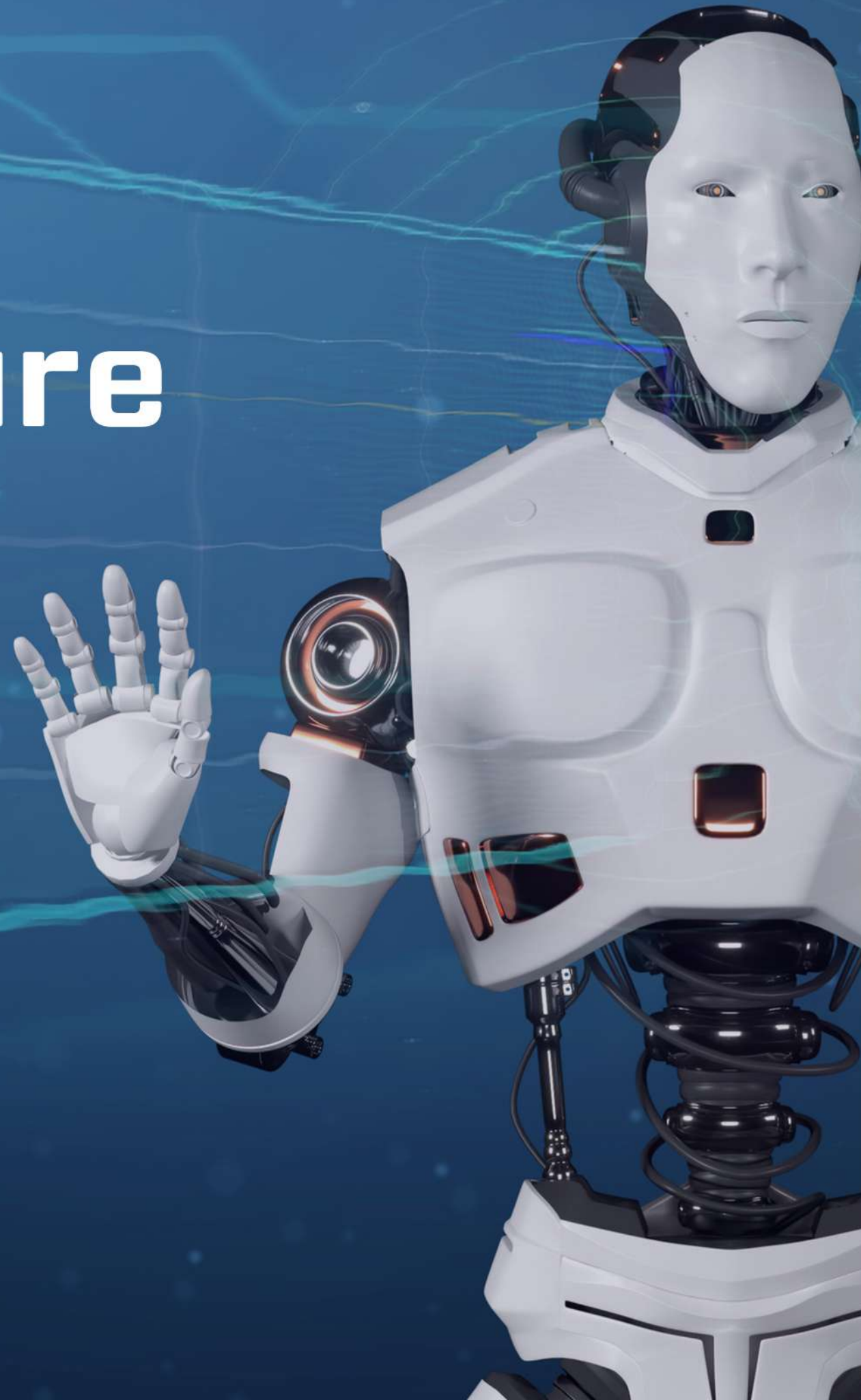
## MODULES

- Login & Authorization
- User Management
- VAT Calculation & Management
- Theme & Language Switching
- Notification System
- Profile Management
- Backup & Restore
- Clock & Date Display
- Notebook + Reminder (Bonus)





# Feature



## EXTRE FEATURE



- Monthly VAT report via PieChart
- JSON file data integration
- Help guide using WebView
- Advanced search and filtering
- Print preview with JavaFX Print API
- Import data from external sources [CSV, JSON, XML]

## PROJECT STRUCTURE

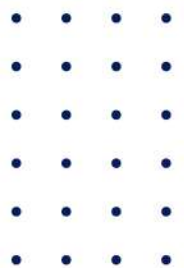
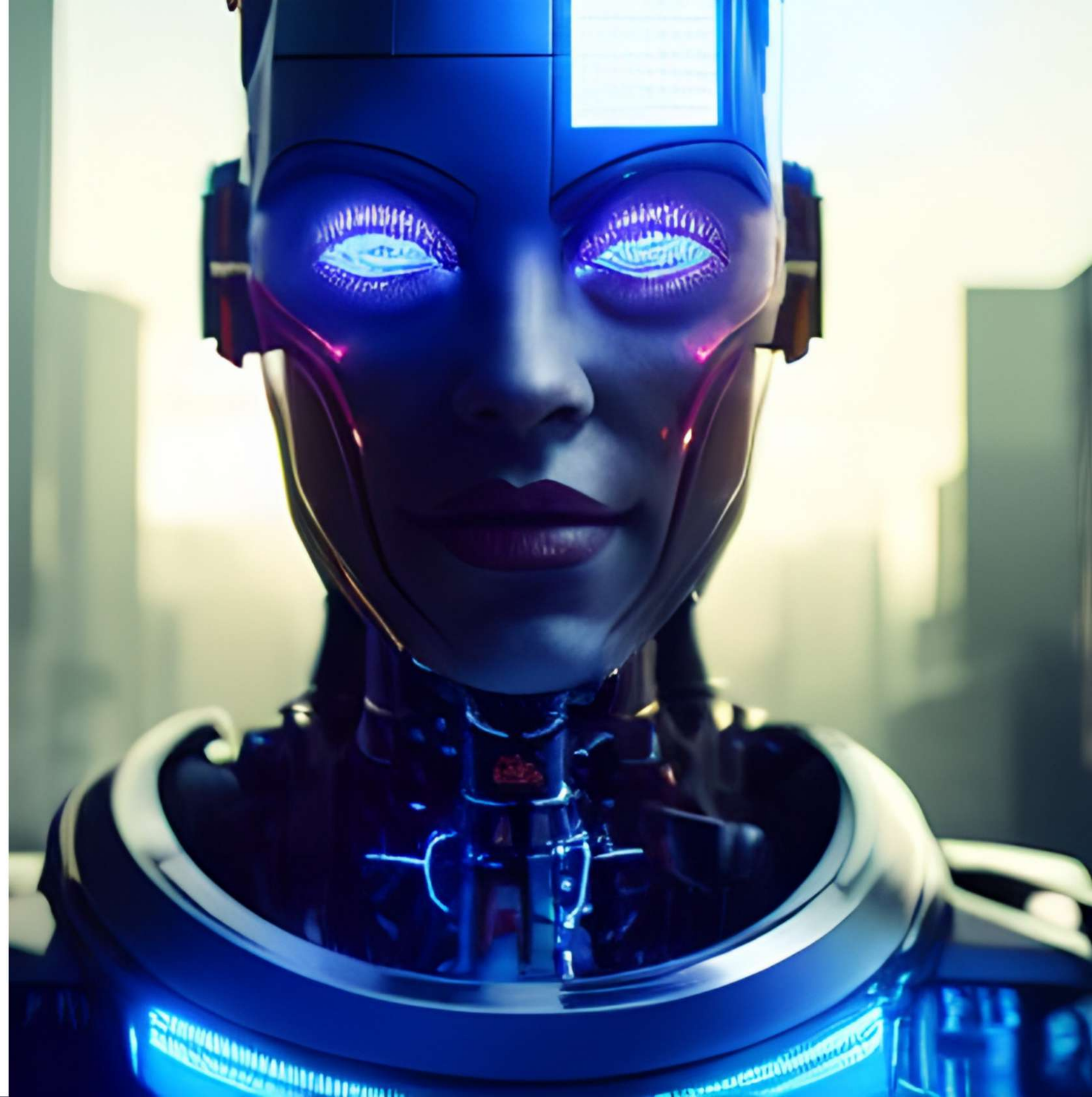
- Follows MVC Architecture
- Package organization:
- Package organization:
  - controller/
  - dto/
  - dao/
  - model/
  - util/
  - view/
  - database/
- Clean code structure with well-separated responsibilities





# Setup & Run Instructions

- Developed with Java 8+ and IntelliJ IDEA
- Can be run from Main.java directly
- Uses H2 embedded database
- Exportable as .jar or .exe for deployment





# Achievements & Learning Outcomes

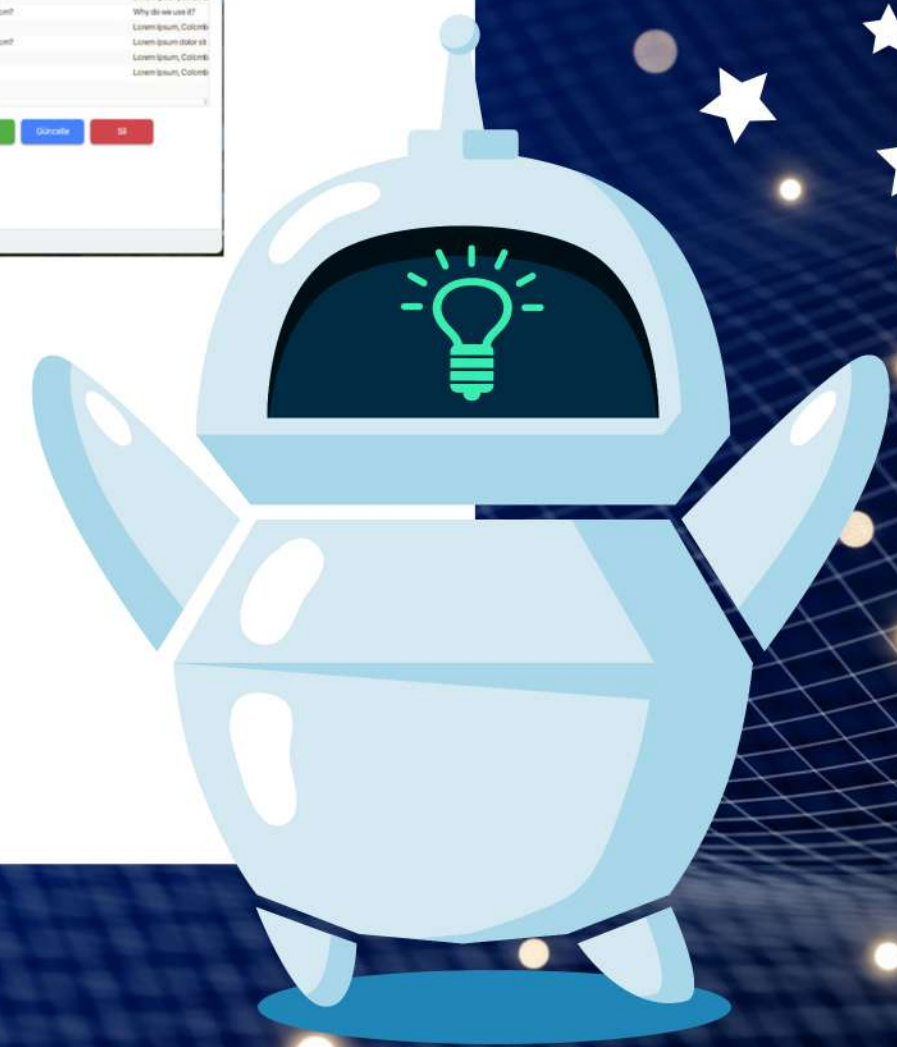
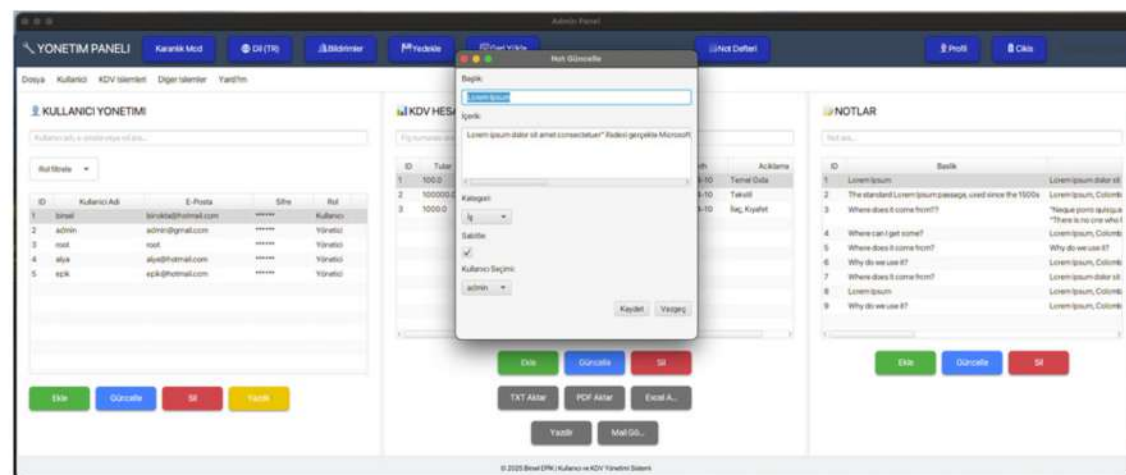
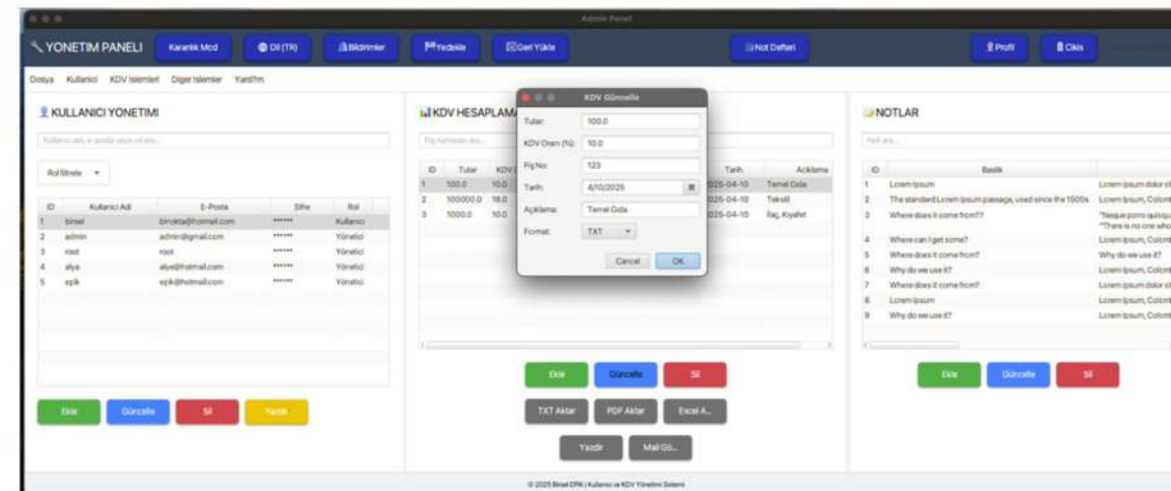
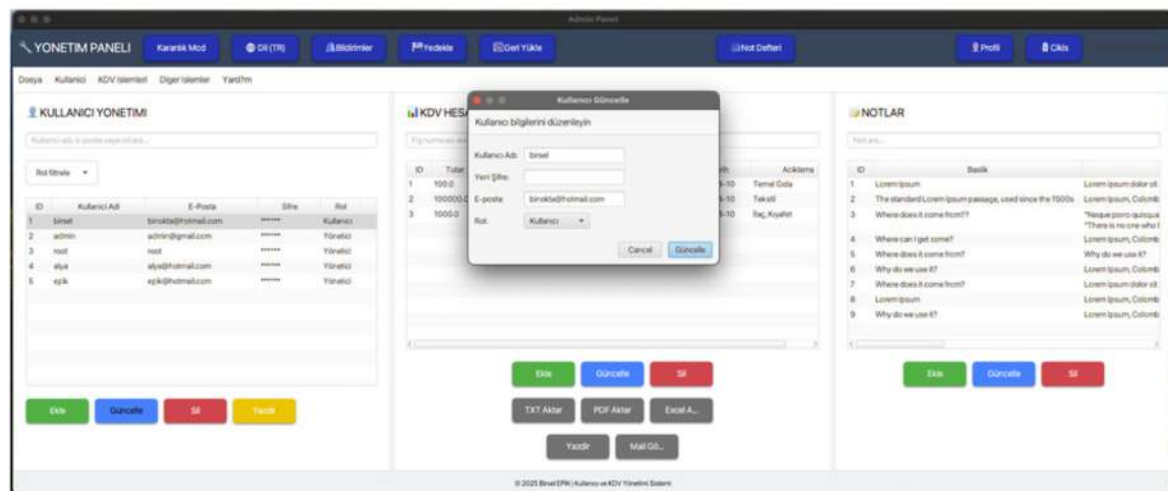
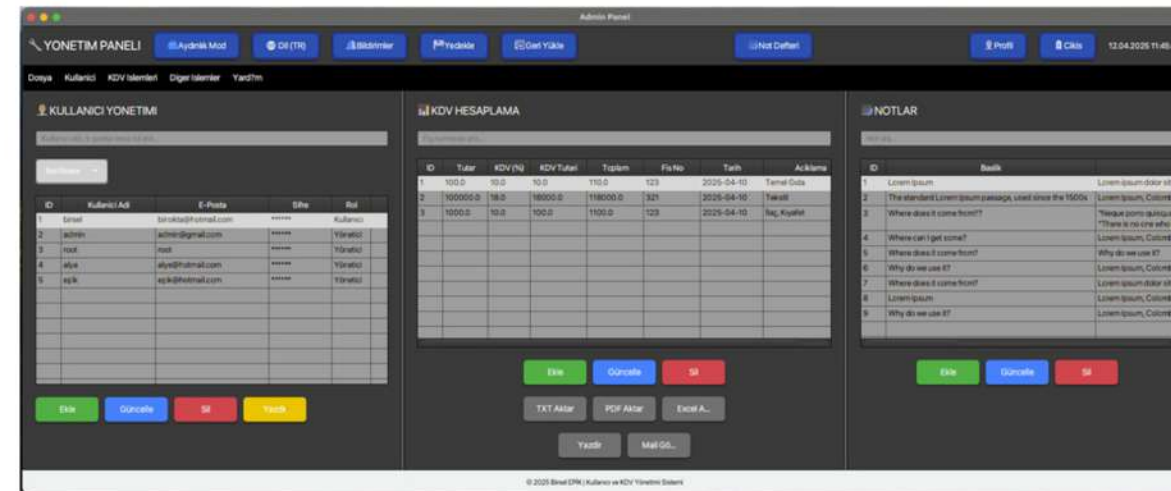
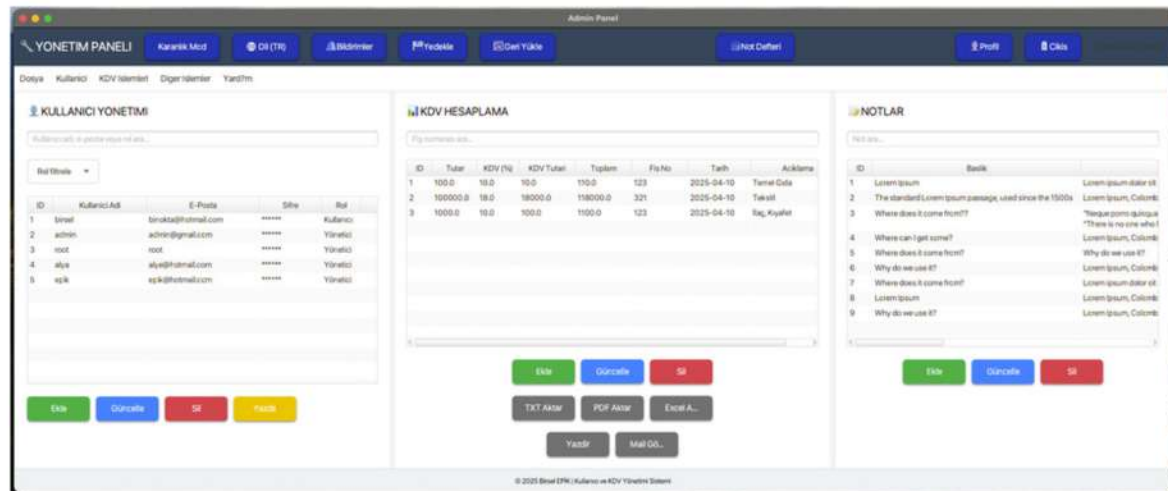
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- Built professional UI with JavaFX and FXML
- Applied MVC design principles
- Implemented security with BCrypt
- Learned file operations, charting, and scheduling in Java
- Gained experience with GitHub and project versioning











# Thanks

**Birsel Epik**

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