

ENCA not Cleaning Agent —— a cleaning agent picker

Agenda

- Introduction (Haoze Zhang)
- Business Logic Structure (Zhaowen Gong)
- Data Access and Testing (Zeling Wu)
- Android application (Xiaoqi Ma)
- Demo

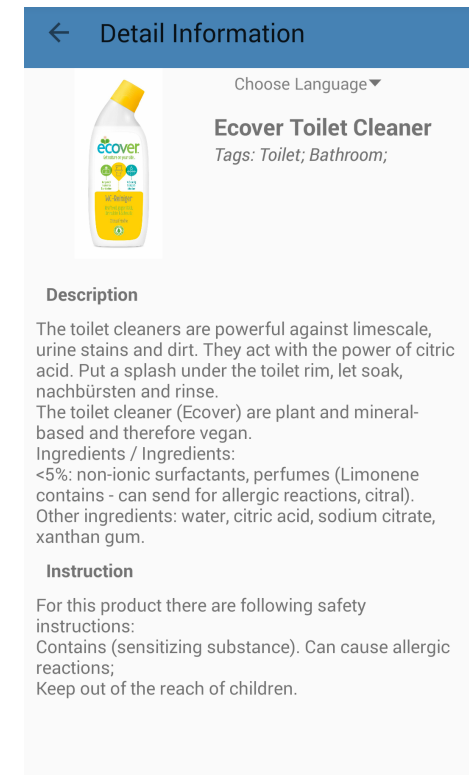
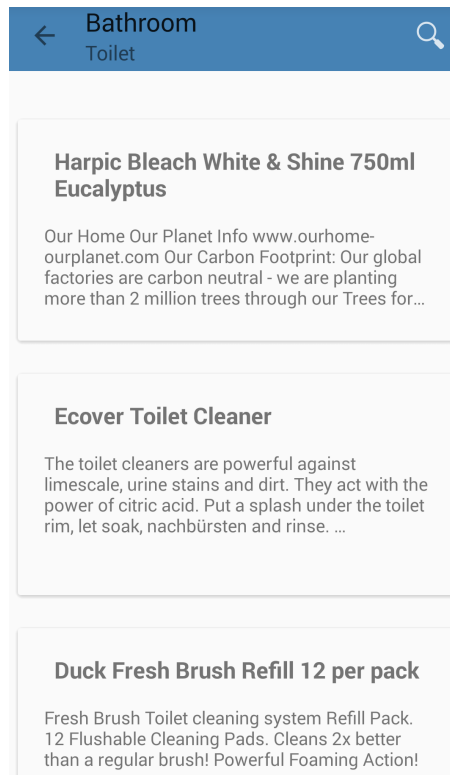
20-07-2016

Team

- **Haoze Zhang**
Requirement analysis, system structure, UI design and team collaboration.
- **Zhaowen Gong**
Business logic implementation, UI implementation and code revision.
- **Zeling Wu**
Data acquisition, database management and testing.
- **Xiaoqi Ma**
Android application, UI design and implementation.
- Collaboration platform:
GitHub: <https://github.com/Nimita311/ENCA-Andriod>

Additional Task

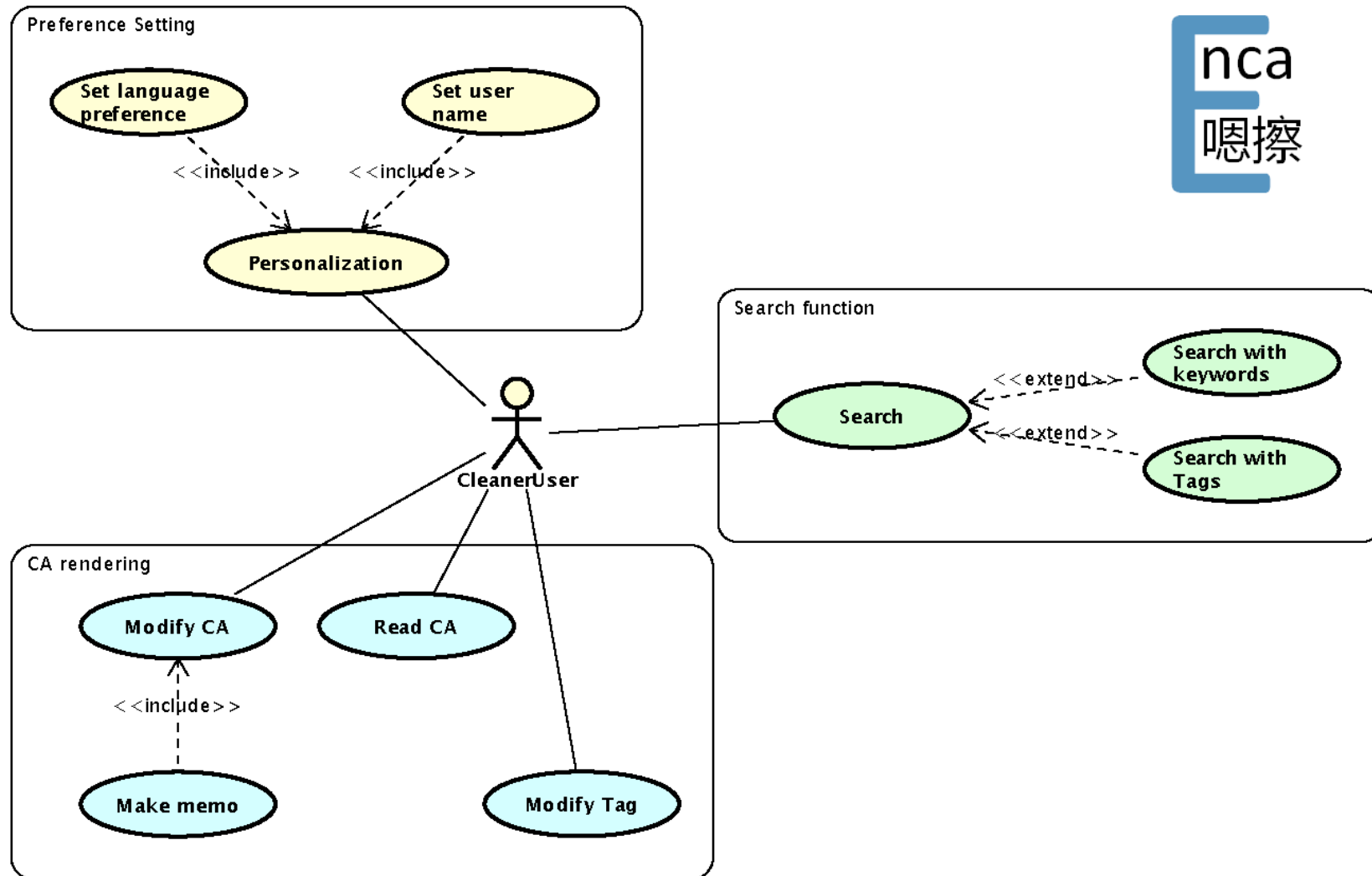
- Android:
ENCA express



Scenarios of Use

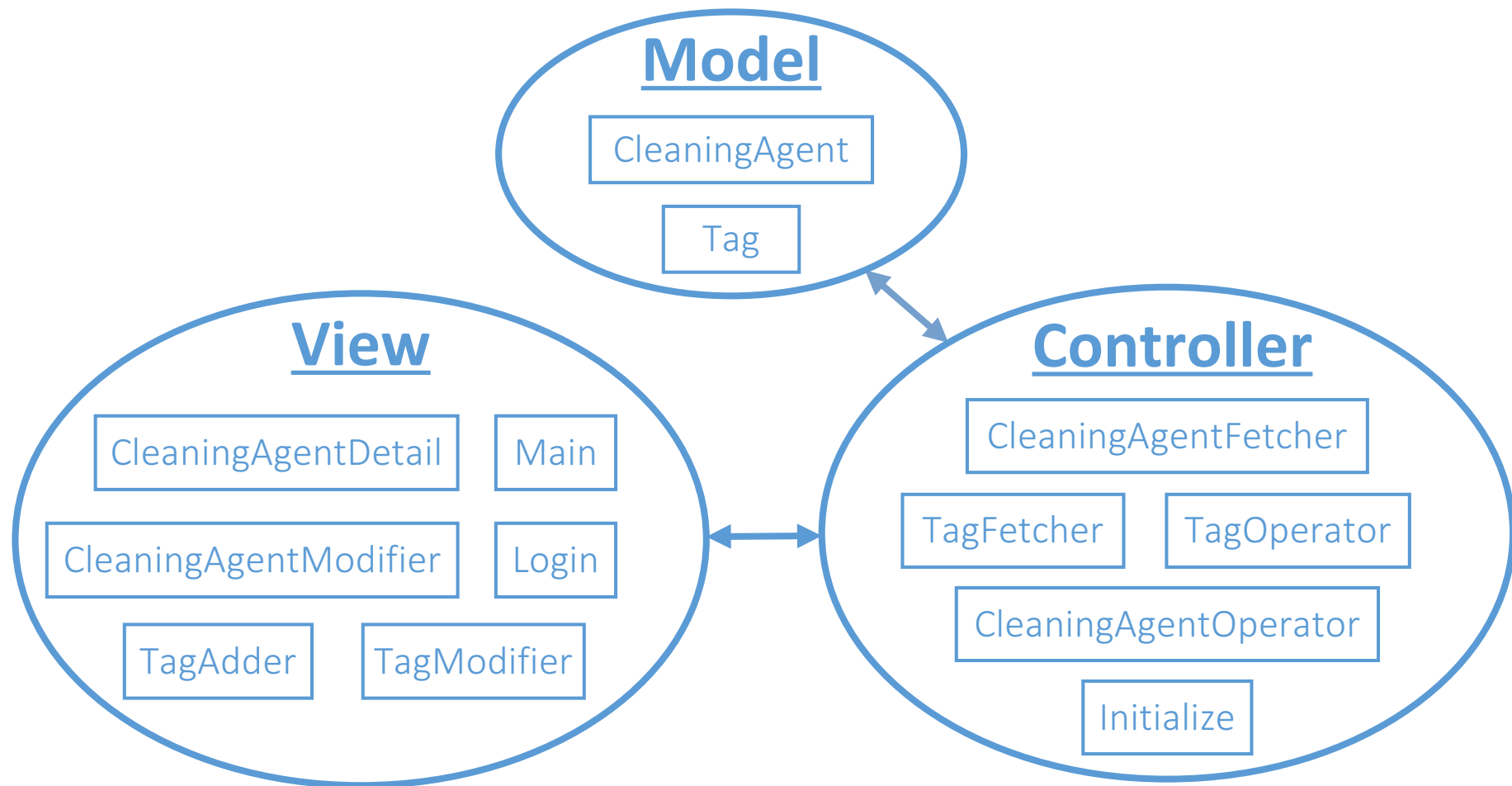
- Scenario 1: (with ENCA)
Cleaning purpose -> Cleaning agent
- Scenario 2: (with ENCA)
Cleaning agent's name or description -> Cleaning agent
- Scenario 3: (with ENCA-express)
Want to buy a cleaning agent -> show the seller

Use Cases



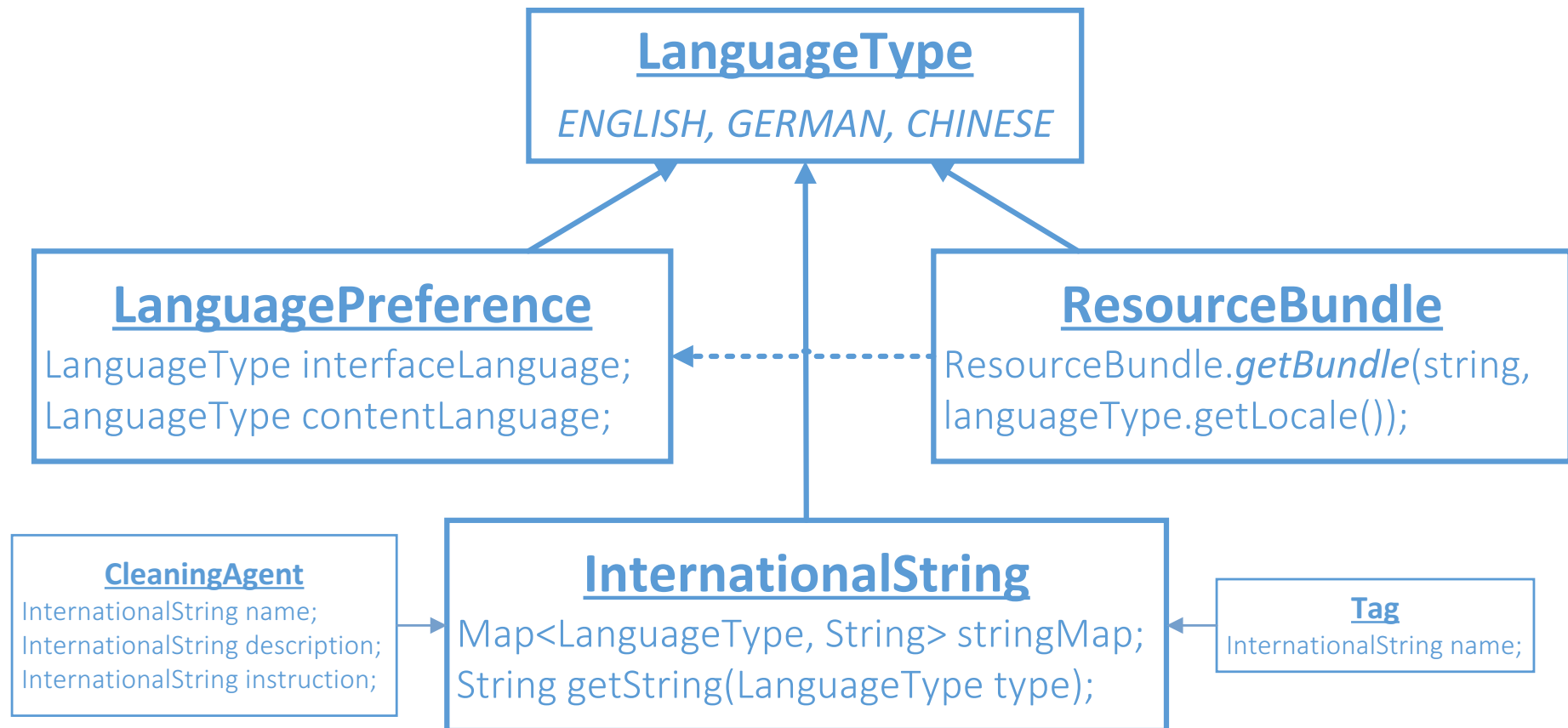
Business Logic Structure

MVC



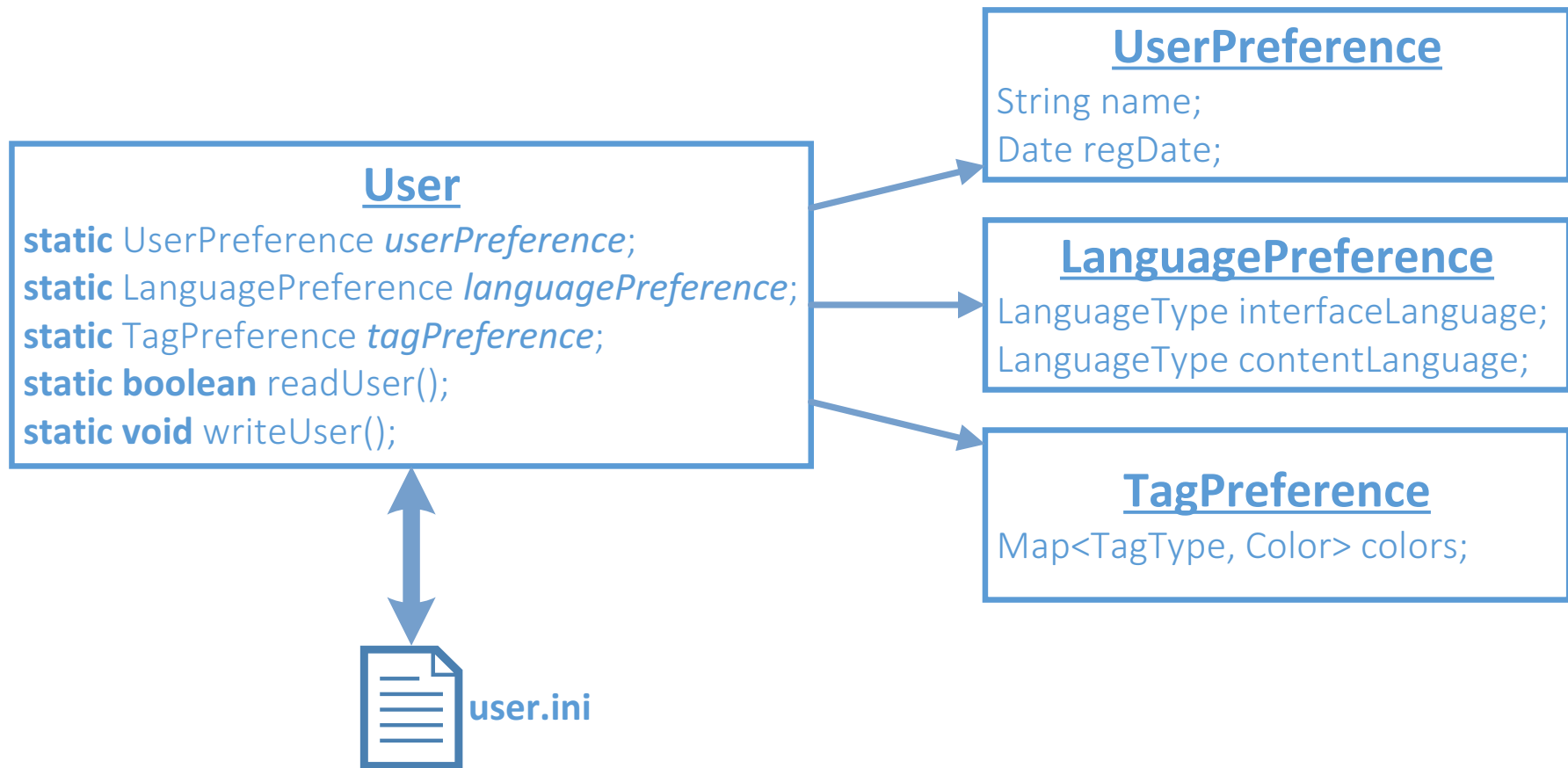
Business Logic Structure

Multi-Language Support



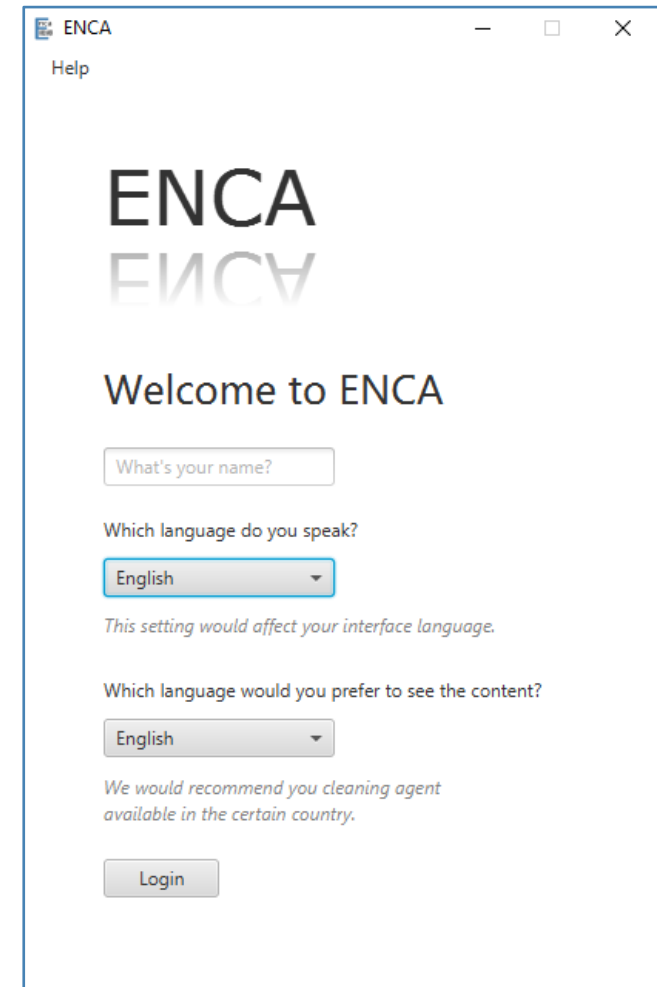
Business Logic Structure

Preferences

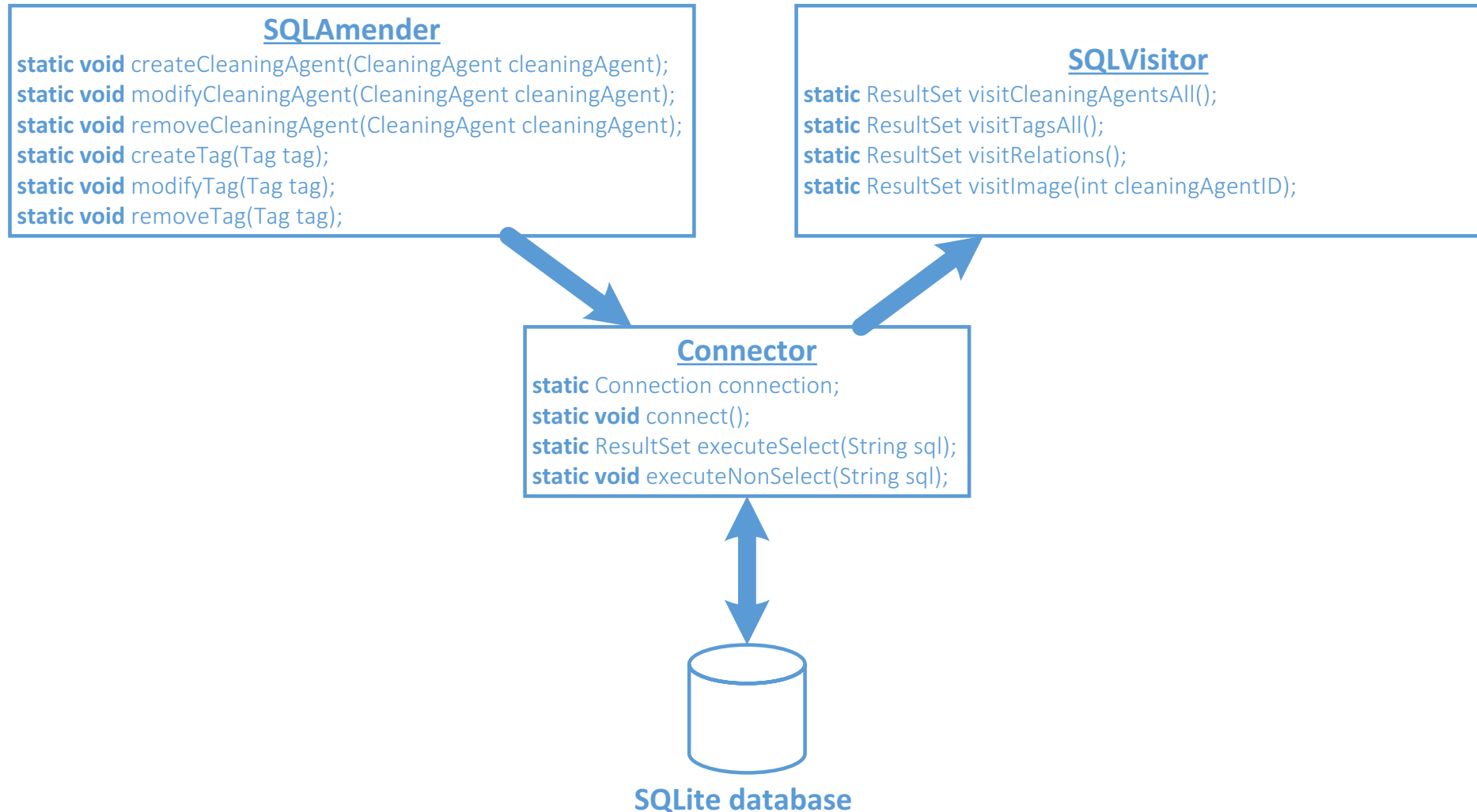


GUI Design

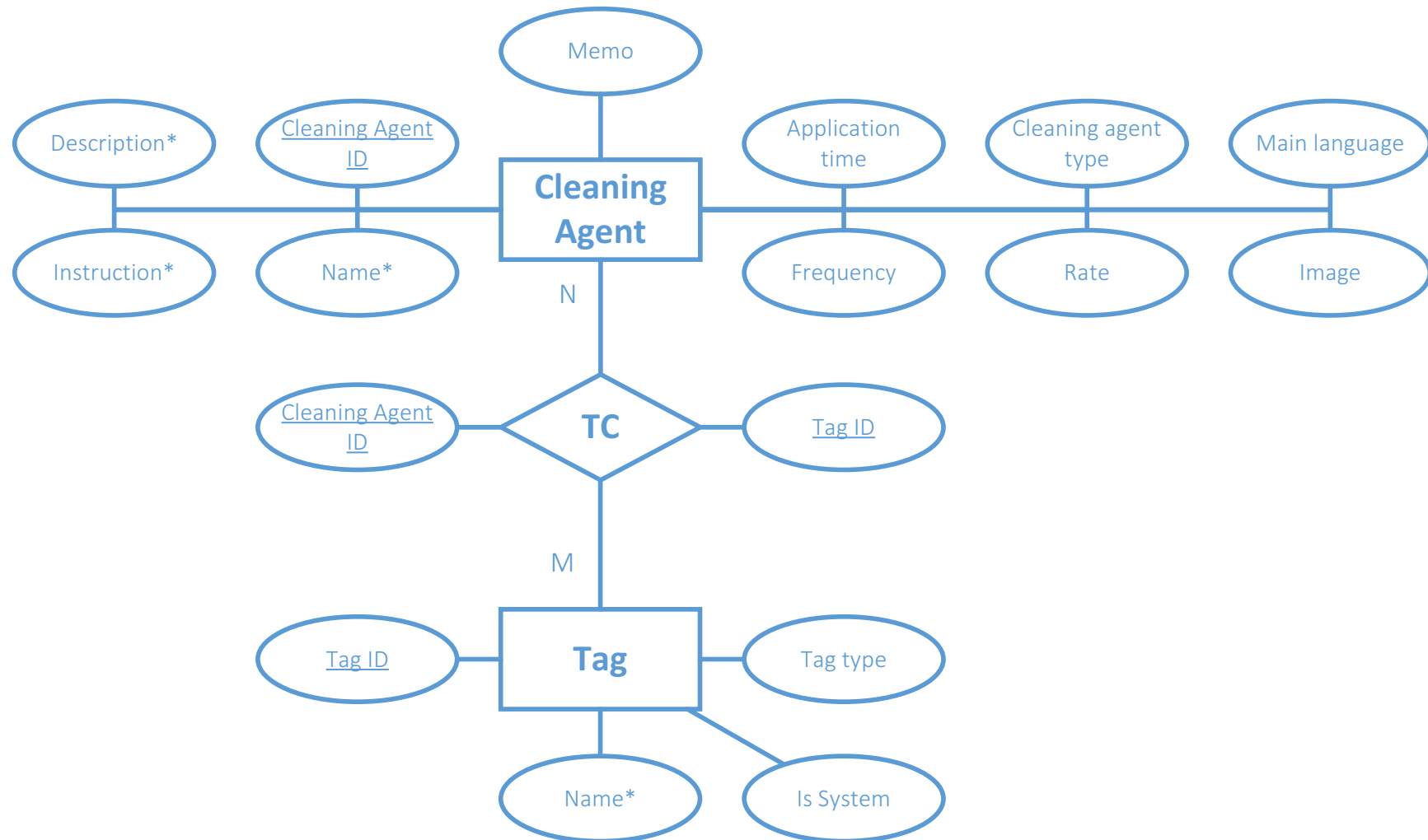
- **JavaFX structure**
 - Main class
 - FXML file expressing interface
 - Separate controller
 - css file controlling style
- **More flexible layout**
- **Better look**
 - Flat design
 - Primary color: **Steel Blue**, RGB(70, 130, 180)
 - Secondary colors: **Room** **Items** **Others**
- **Consistency**



Data Access Logic



Entity Relation



* Those attributes are stored in three languages.

Test

- **Unit Test**

InternationalStringTest

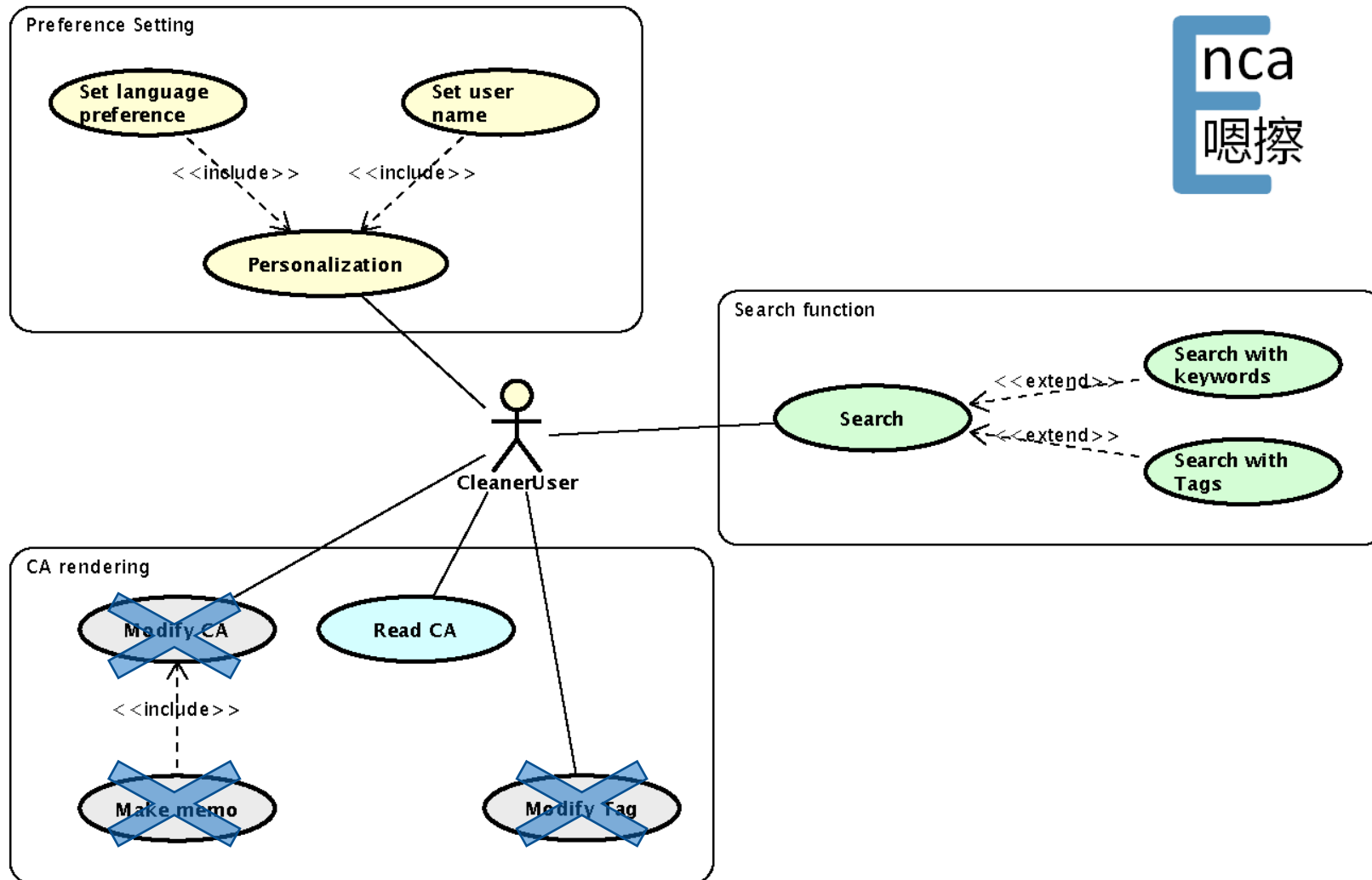
- **Module Test**

SQLAmenderTest, SQLVisitorTest

- **Integration Test**

TagOperatorTest

Android Use case



Demo

- ENCA-express
- ENCA