

ENCA not Cleaning Agent —— a cleaning agent picker

Agenda

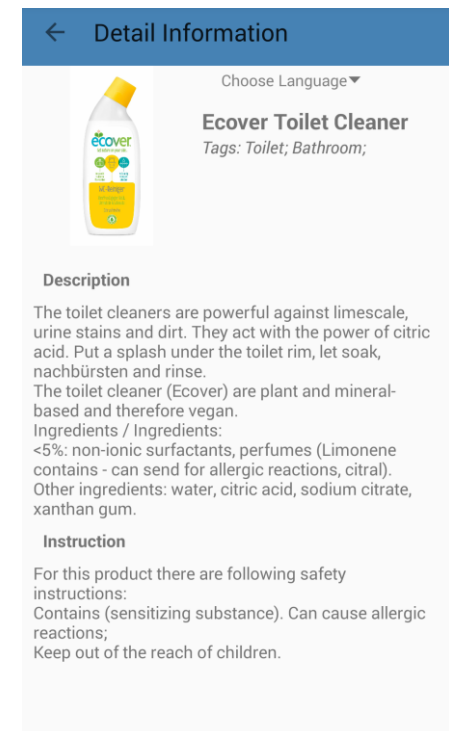
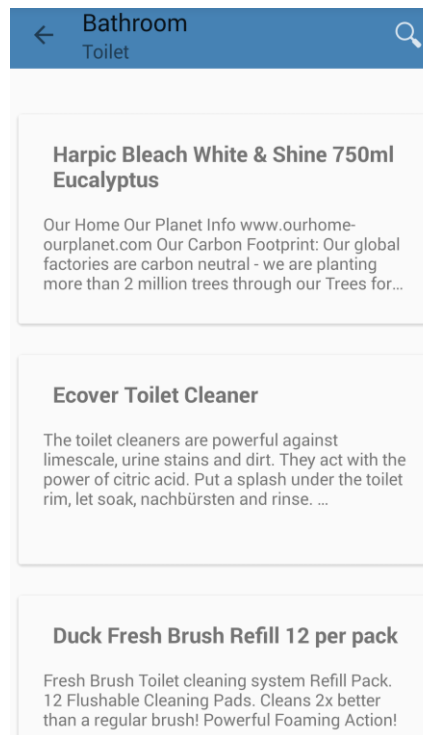
- Introduction (Haoze Zhang)
- Business Logic Structure (Zhaowen Gong)
- Data Access and Testing (Zeling Wu)
- Android application (Xiaoqi Ma)
- Demo

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

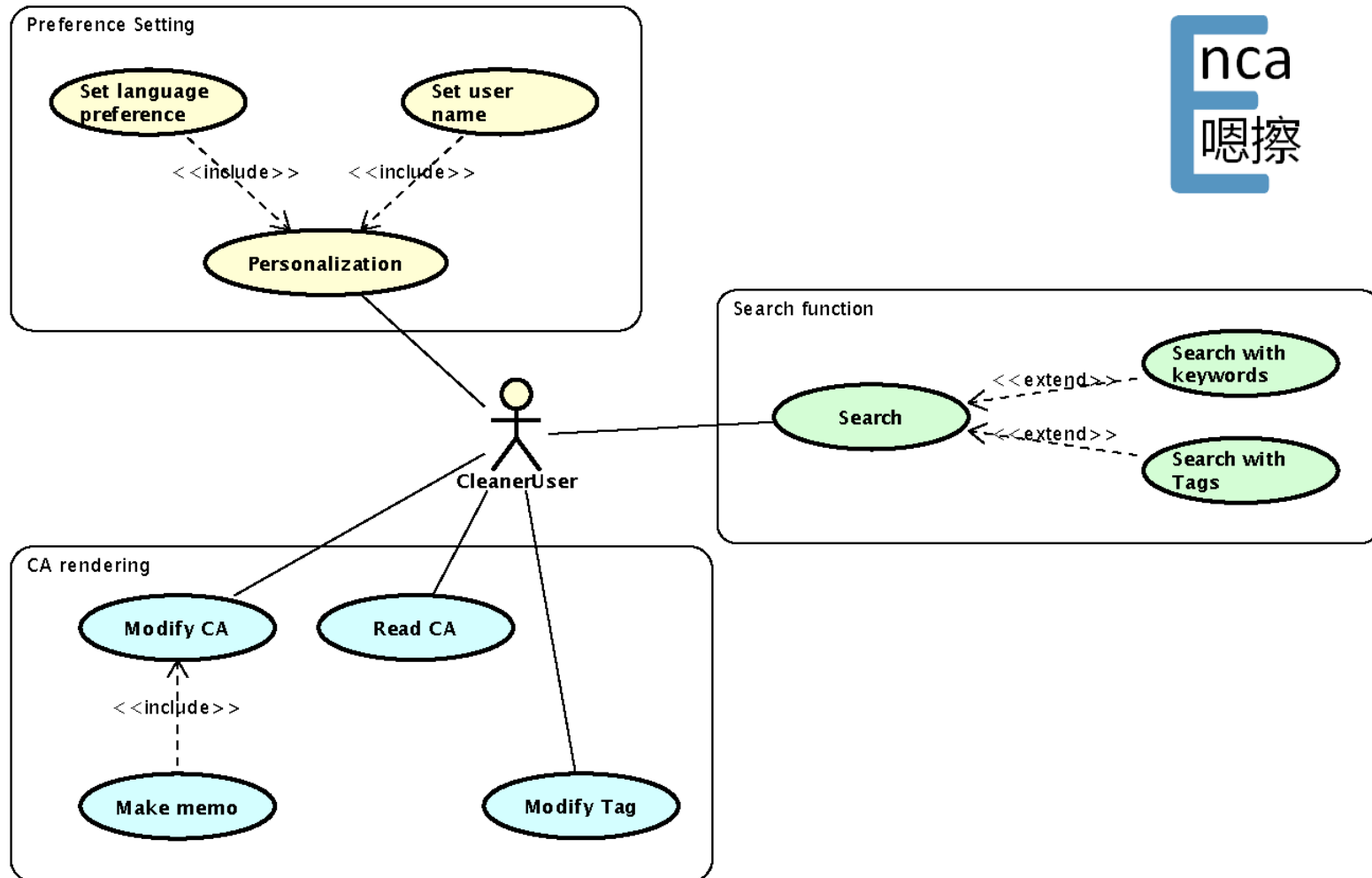
- Android:
ENCA express



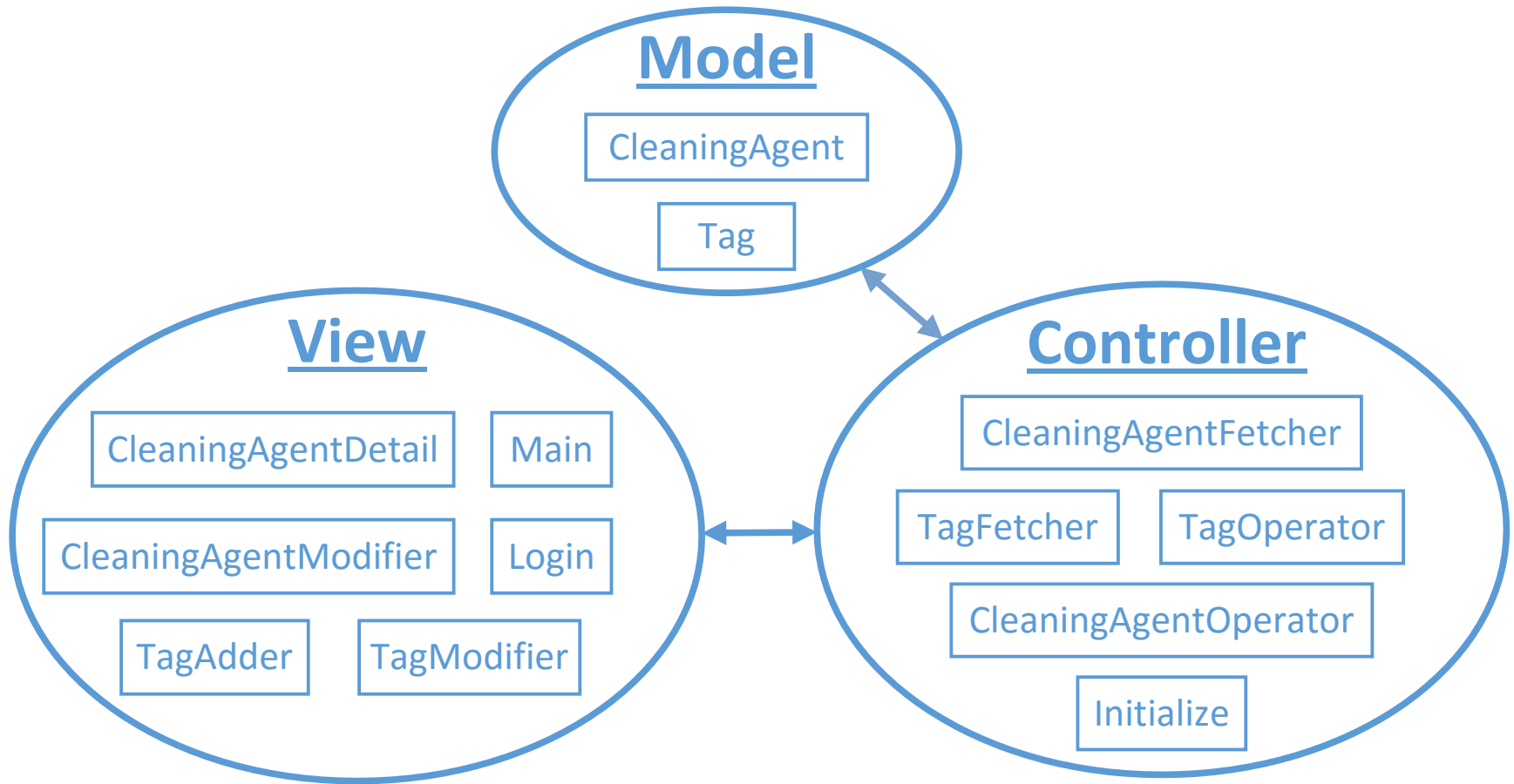
Scenarios of Use

- 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

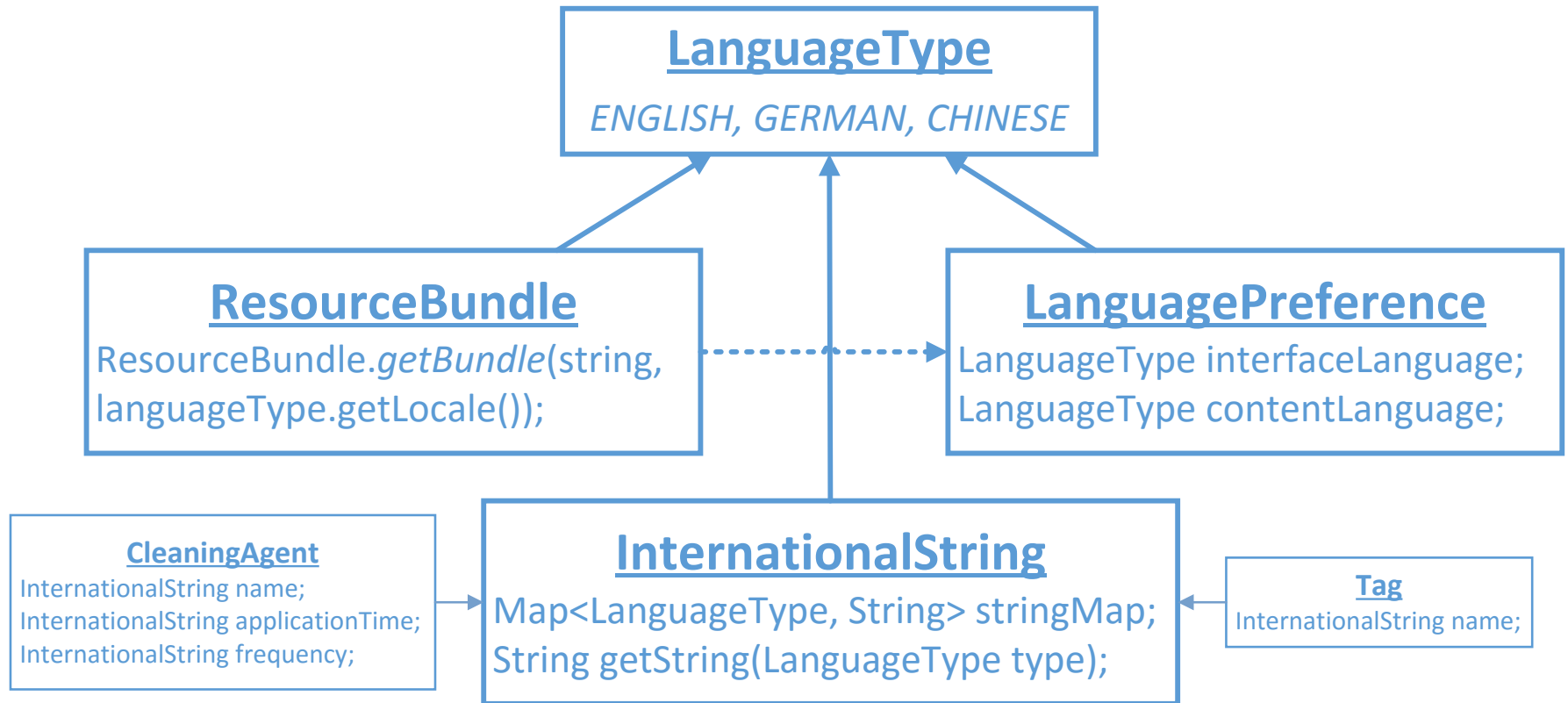
Use Case Diagram



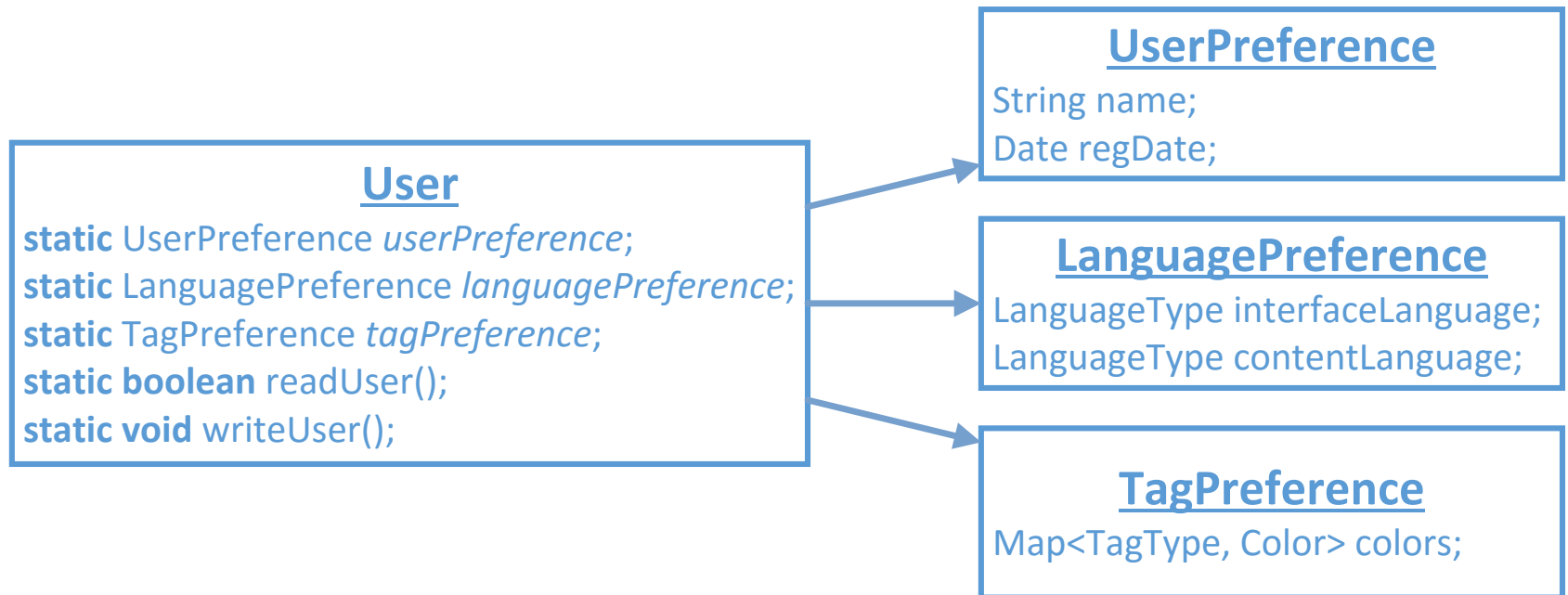
MVC



Languages



Preferences



JavaFX

- Intended to replace Swing
- Better look
 - Flat design
 - Theme color: **Still Blue**, #4682b4, RGB(70, 130, 180)
 - Tag colors: Room Items Others
- Consistency
- More flexible layout
- Styling with CSS

Data Access

SQLAmender

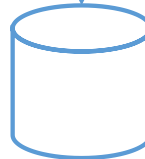
```
static void createCleaningAgent(CleaningAgent cleaningAgent);  
static void modifyCleaningAgent(CleaningAgent cleaningAgent);  
static void removeCleaningAgent(CleaningAgent cleaningAgent);  
static void createTag(Tag tag);  
static void modifyTag(Tag tag);  
static void removeTag(Tag tag);
```

SQLVisitor

```
static ResultSet visitCleaningAgentsAll();  
static ResultSet visitTagsAll();  
static ResultSet visitRelations();  
static ResultSet visitImage(int cleaningAgentID);
```

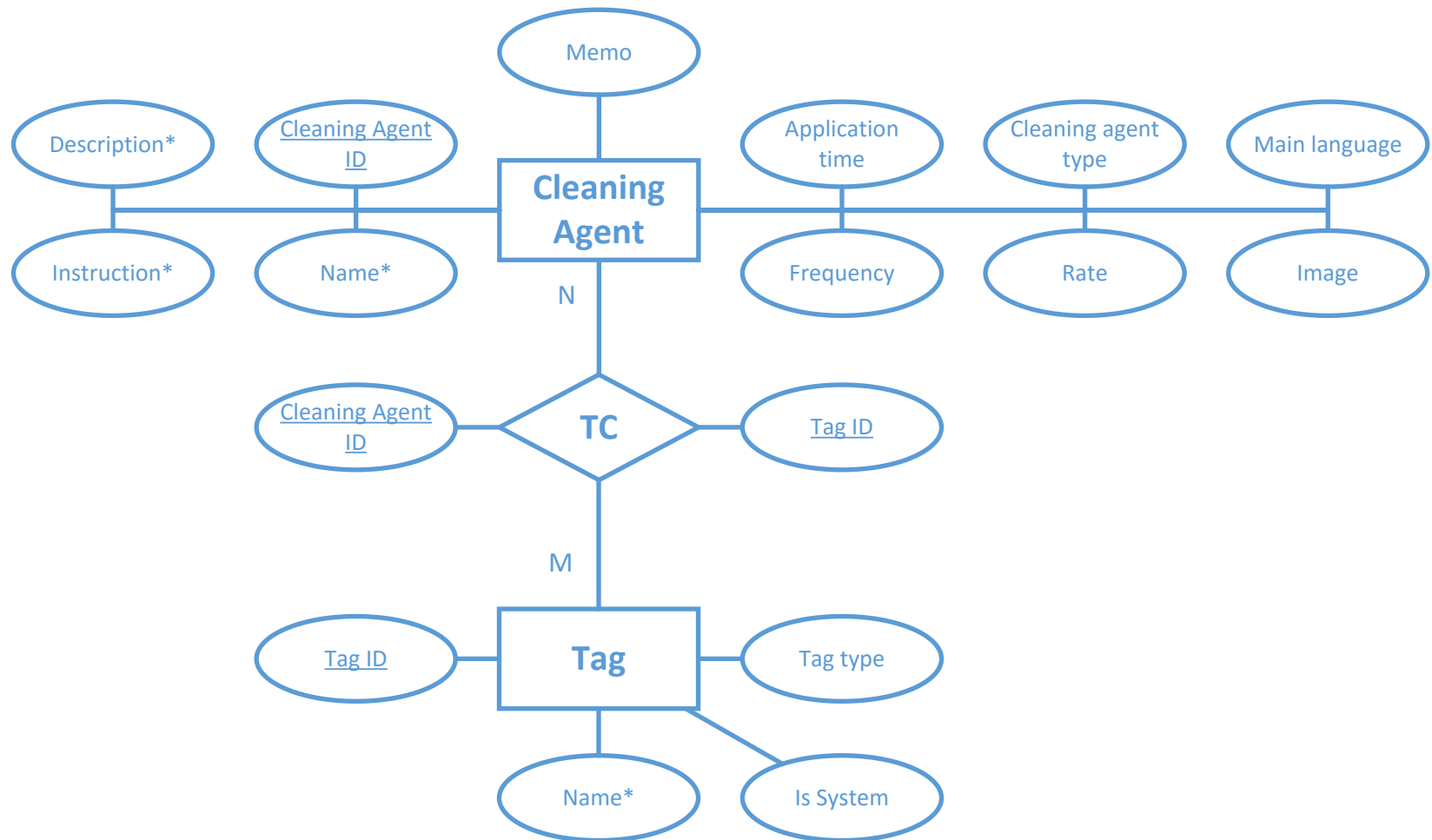
Connector

```
static Connection connection;  
static void connect();  
static ResultSet executeSelect(String sql);  
static void executeNonSelect(String sql);
```



SQLite database

E-R Diagram



* Those attributes are stored in three languages.

Test

- **Unit Test**

InternationalStringTest

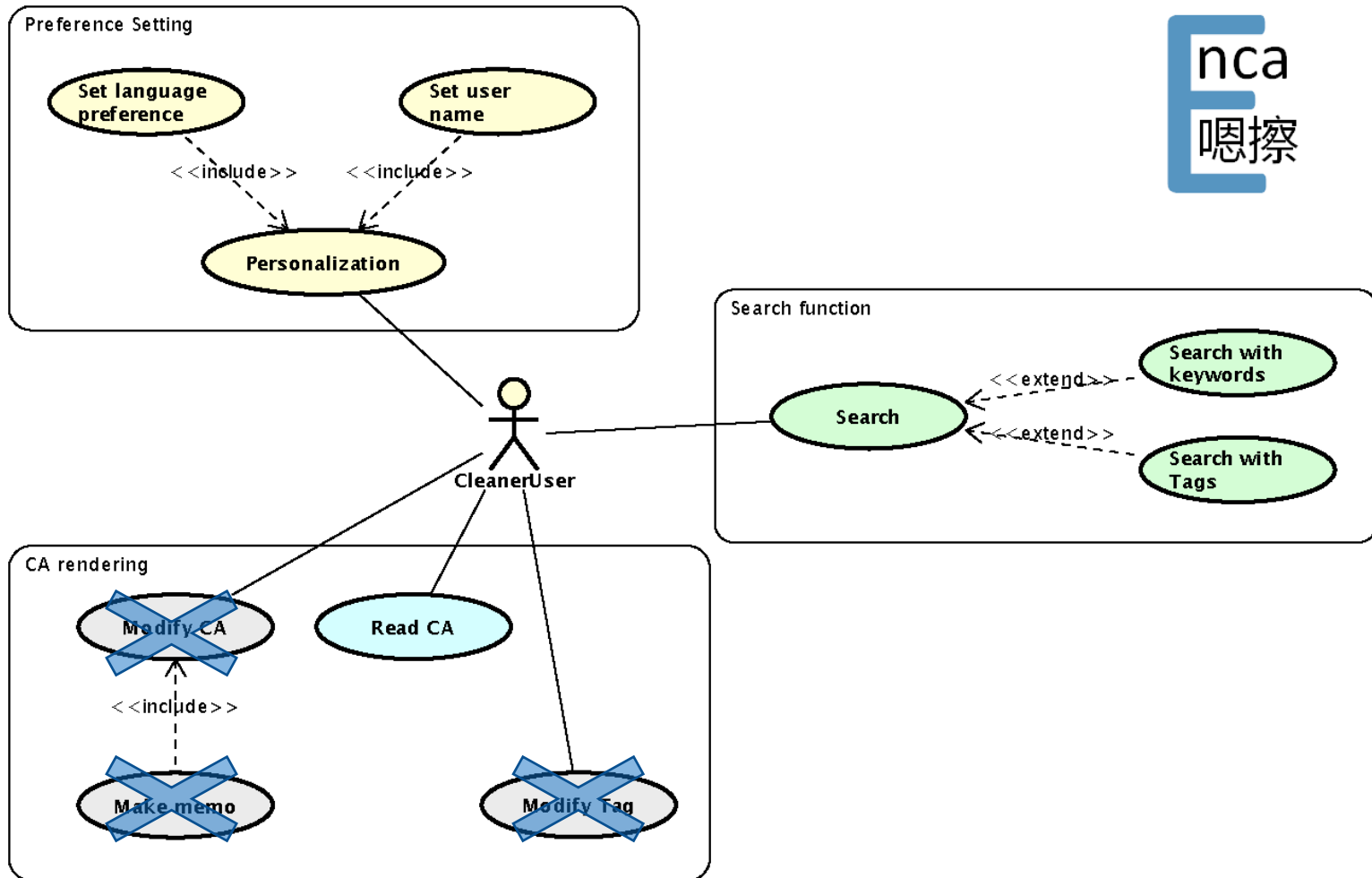
- **Module Test**

SQLAmenderTest, SQLVisitorTest

- **Integration Test**

TagOperatorTest

Android





DEMO