ENCA not Cleaning Agent— a cleaning agent picker

Agenda

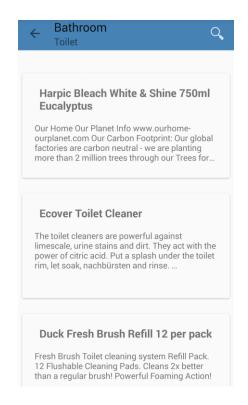
- Introduction (Haoze Zhang)
- Business Logic Structure (Zhaowen Gong)
- Data Access and Testing (Zeling Wu)
- Android application (Xiaoqi Ma)
- Demo

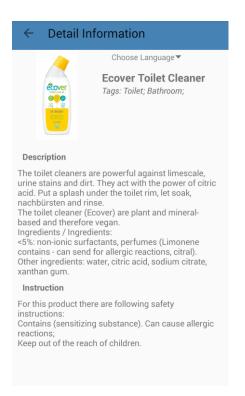
Team

- 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

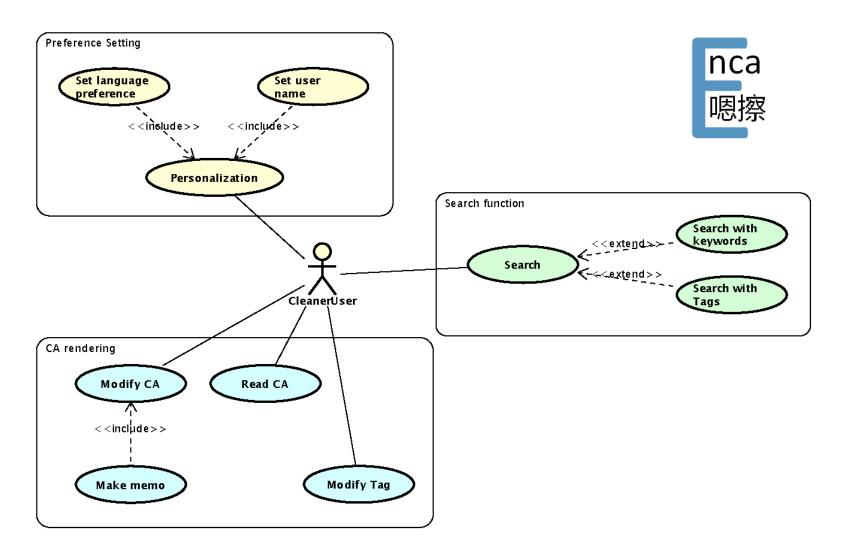




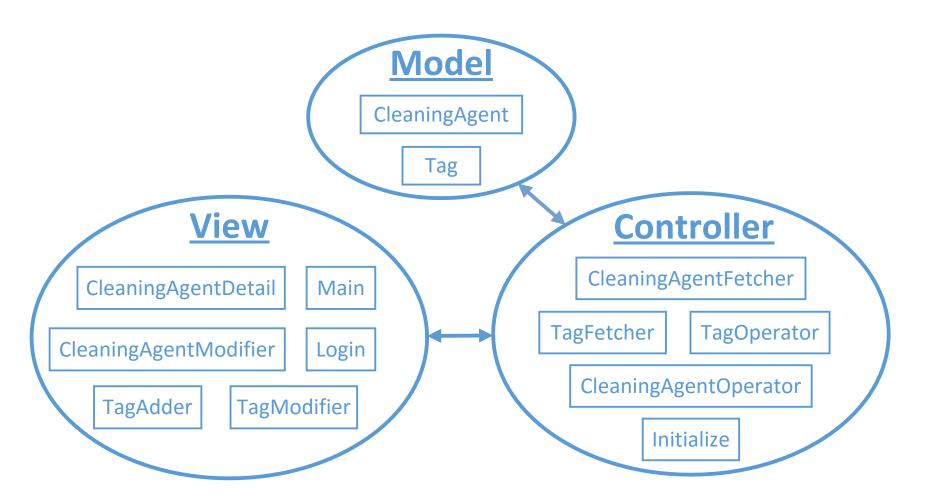
Scenarios of Use

- 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

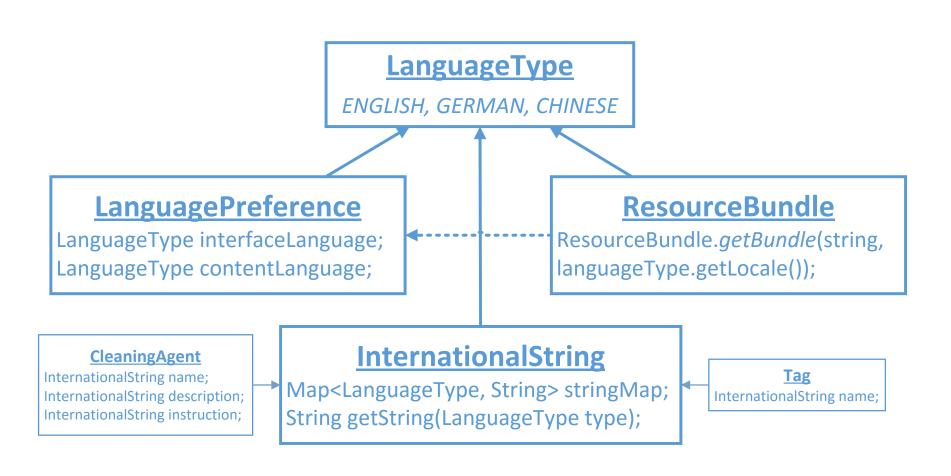
Use Case Diagram



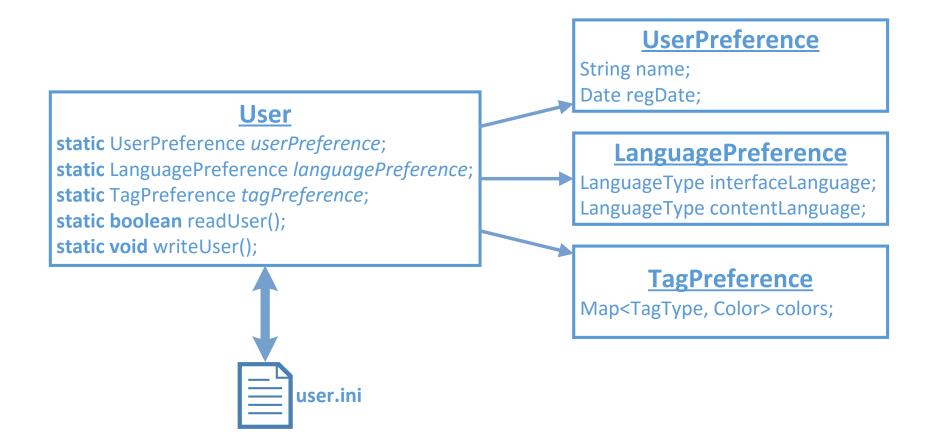
MVC



Languages



Preferences



JavaFX

- Clear structure
 - Main class
 - FXML file expressing interface
 - Separate controller
 - Css file controlling style
- Better look
 - Flat design
 - Theme color: Still Blue, RGB(70, 130, 180)

Others

- Tag colors: Room Items
- More flexible layout
- Consistency



Data Access

SQLAmender

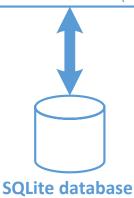
static void createCleaningAgent(CleaningAgent cleaningAgent);
static void modifyCleaningAgent(CleaningAgent cleaningAgent);
static void removeCleaningAgent(CleaningAgent cleaningAgent);
static void createTag(Tag tag);
static void modifyTag(Tag tag);
static void removeTag(Tag tag);

SQLVisitor

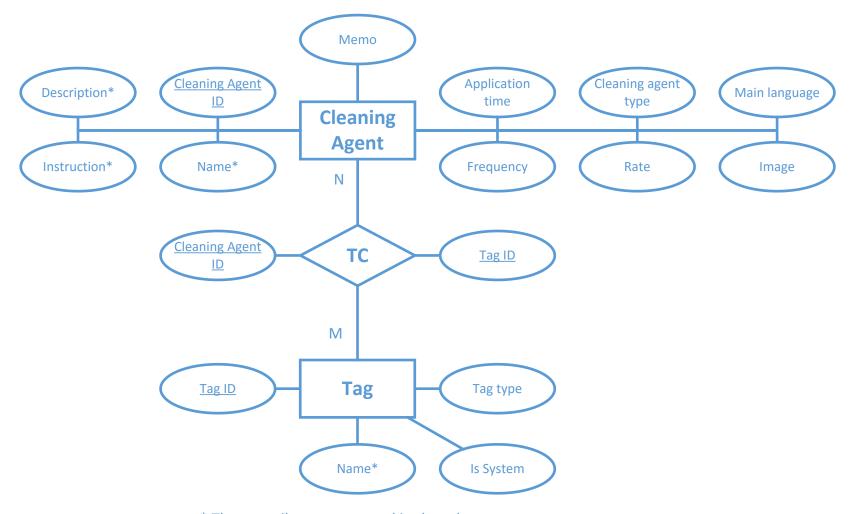
static ResultSet visitCleaningAgentsAll();
static ResultSet visitTagsAll();
static ResultSet visitRelations();
static ResultSet visitImage(int cleaningAgentID);

Connector

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



E-R Diagram

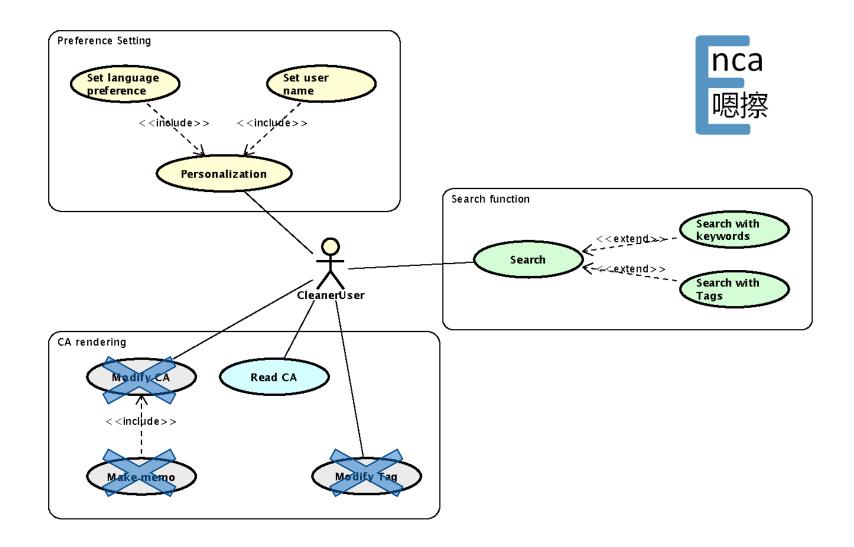


^{*} Those attributes are stored in three languages.

Test

- Unit Test
 InternationalStringTest
- Module Test
 SQLAmenderTest, SQLVisitorTest
- Integration Test
 TagOperatorTest

Android



DEMO