

# Core Application Module

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## 1. Intro

- The module joins prototype DataModel which should be implemented in the rest modules.  
And the layers' skeletons (set of interfaces).
- The interfaces will be used in ingress, business-logic and persistence modules.  
Facades should be implemented in particular modules and joined together in main application module.

## 2. Module parts

### 2.1. Common Data Model

Common Used Data Model (prototypes of model's entities)

#### ▼ Data Model

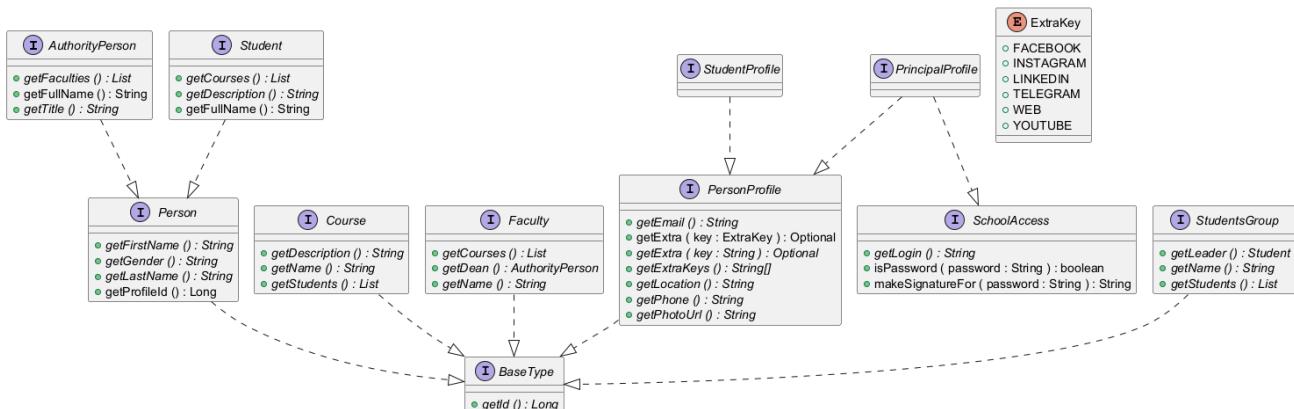


Figure 1. Core Data Model

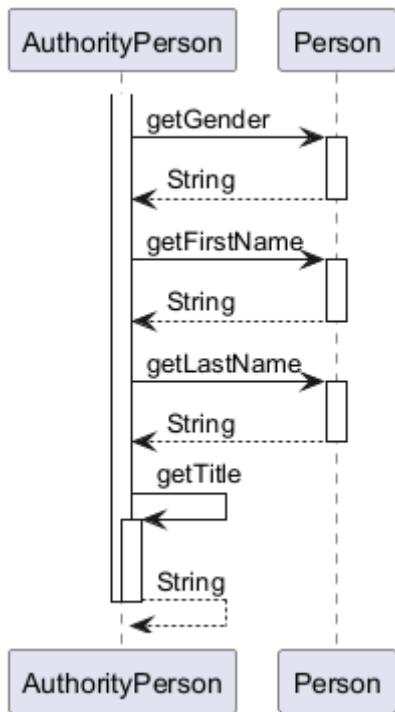


Figure 2. `AuthorityPerson.getFullName()` [Get Full Authority Person Name Sequence]

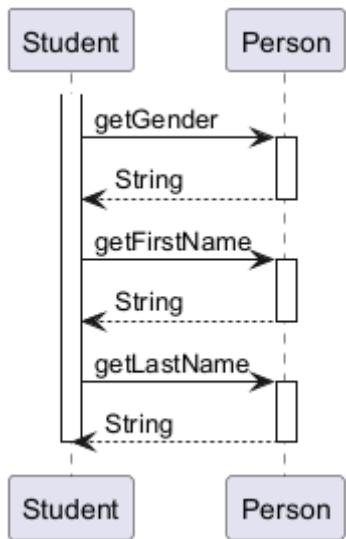


Figure 3. `Student.getFullName()` [Get Full Student Name Sequence]

## 2.2. Business Logic Skeleton

Set of interfaces used to implement business-logic functionality of the application.

### ▼ Business Logic

- General Facade Diagram

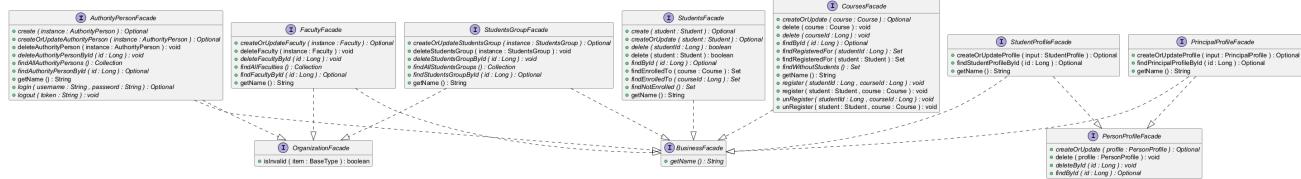


Figure 4. Business Logic Facades by Entity Types

- Authority Person Facade Sequences

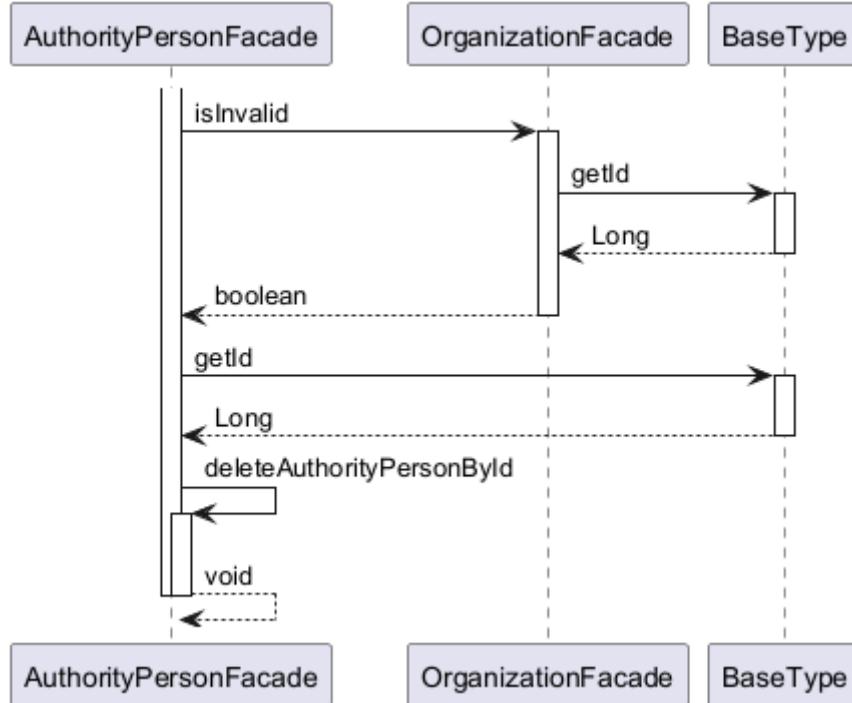


Figure 5. AuthorityPersonFacade.deleteAuthorityPerson(...) [Delete Authority Person Entity]

- Common Person Profile Facade Sequences

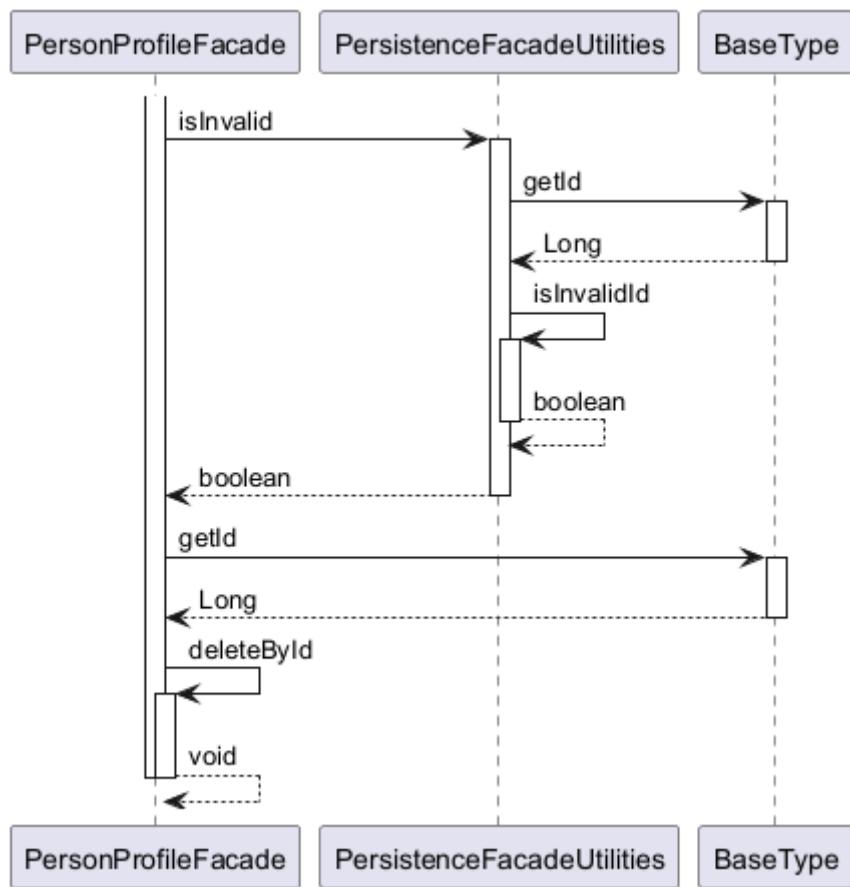


Figure 6. `PersonProfileFacade.delete(...)` [Delete Common Person Entity]

- Faculty Facade Sequences

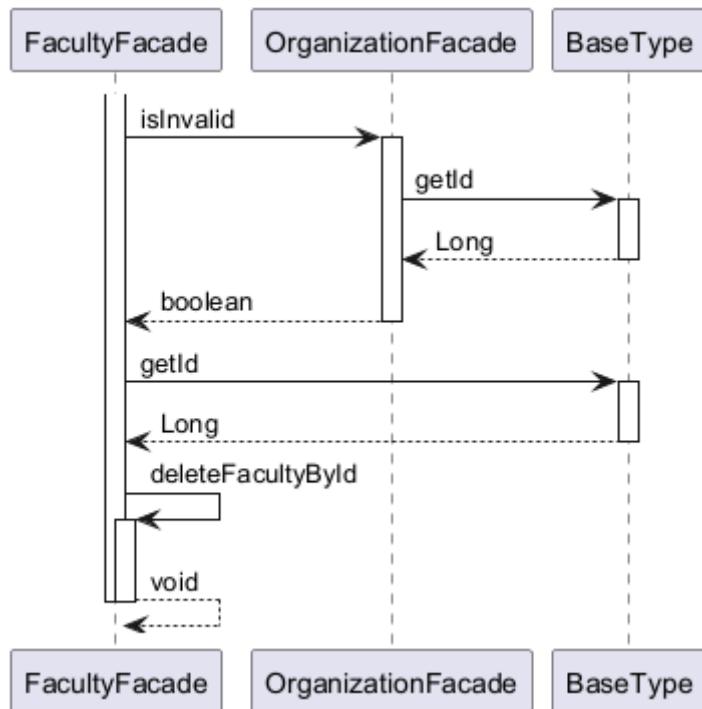


Figure 7. `FacultyFacade.deleteFaculty(...)` [Delete Faculty Entity]

- Students Group Facade Sequences

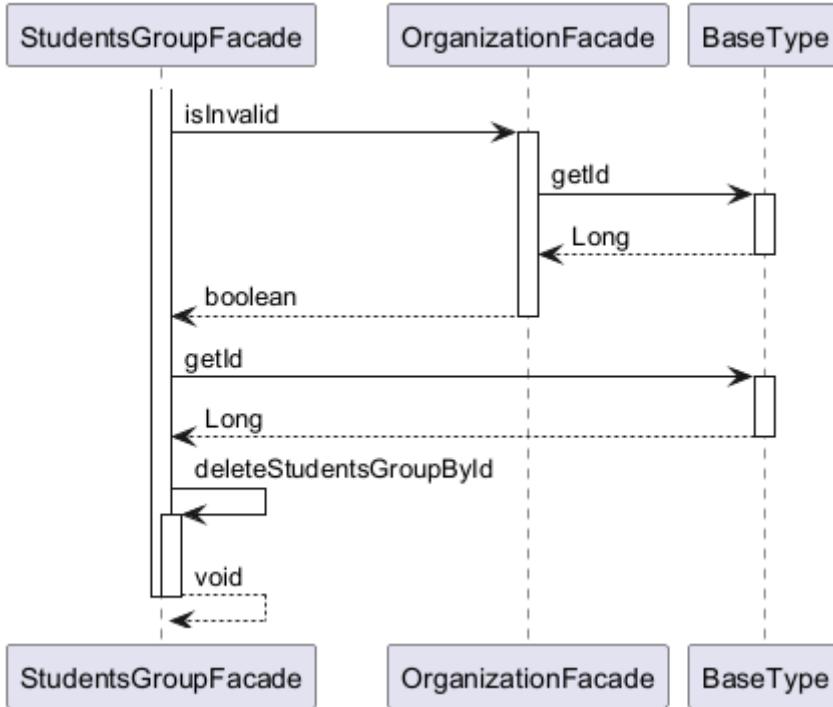


Figure 8. *StudentsGroupFacade.deleteStudentsGroup(...)* [ Delete Students Group Entity]

## 2.3. Persistence Skeleton

Set of interfaces used to implement persistence functionality of the application.

### ▼ Persistence

- General Facade Diagram

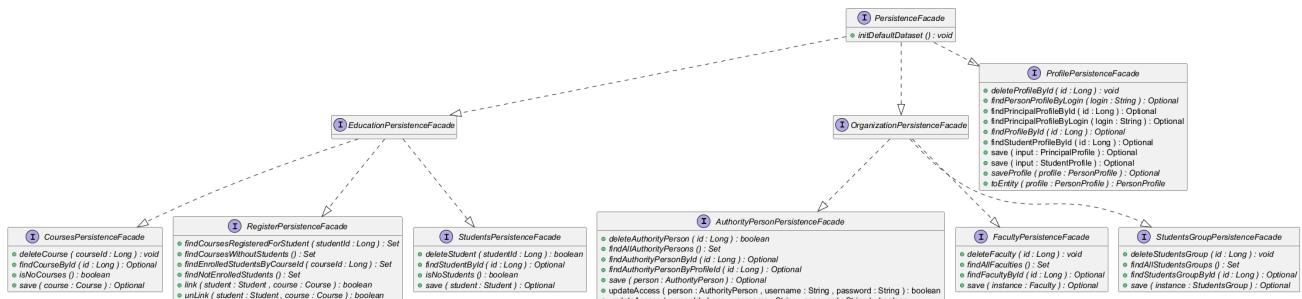


Figure 9. Persistence Facades by Entity Types

- Authority Person Persistence Facade Sequences

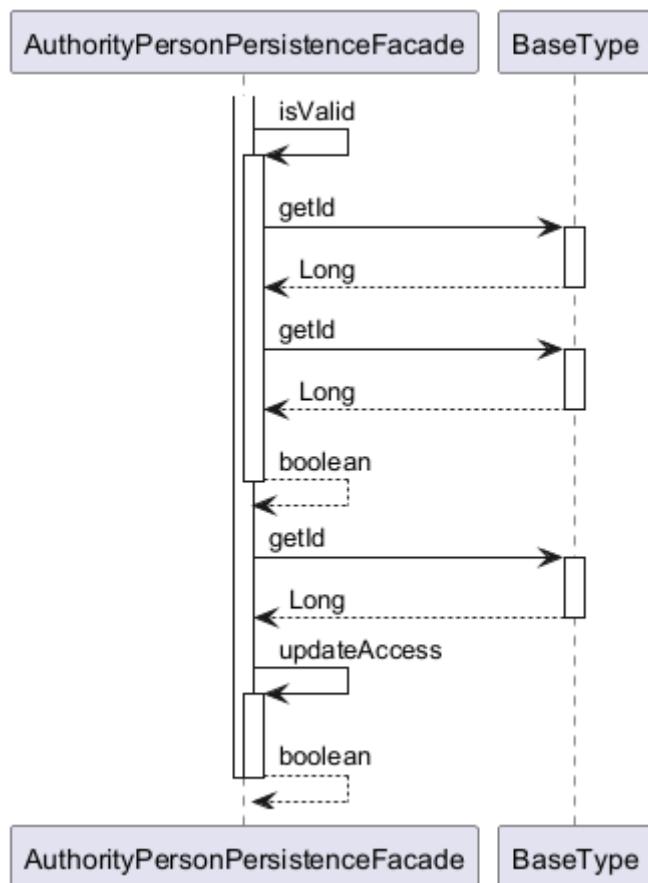


Figure 10. `AuthorityPersonPersistenceFacade.updateAccess(...)` [Authority Person Access Update Entity]

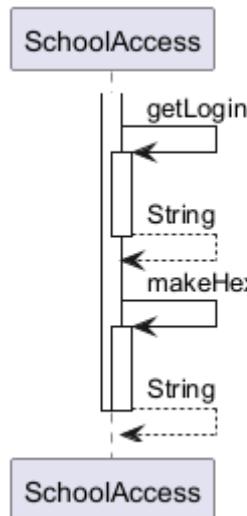


Figure 11. `SchoolAccess.makeSignatureFor(...)` [Authority Person Make Security Access Signature]