CMPE133-01 Lab6 Project Demo

Positive Coders
Yunfan Wang <yunfan.wang@sjsu.edu>
Karma Pandya <kay.pandya@gmail.com>
Yehia Qtaish <Yehiaqtaish@hotmail.com>

EBTs and BOs

In this team project, we have three EBTs: Compliance, Fulfillment and Support. The BOs are AnyForm, AnyInterface, AnyTaskm, AnyImpact, AnyCategory and AnyAspect.

Functional Requirement

According to these EBTs and BOs, we create the following functional requirement.
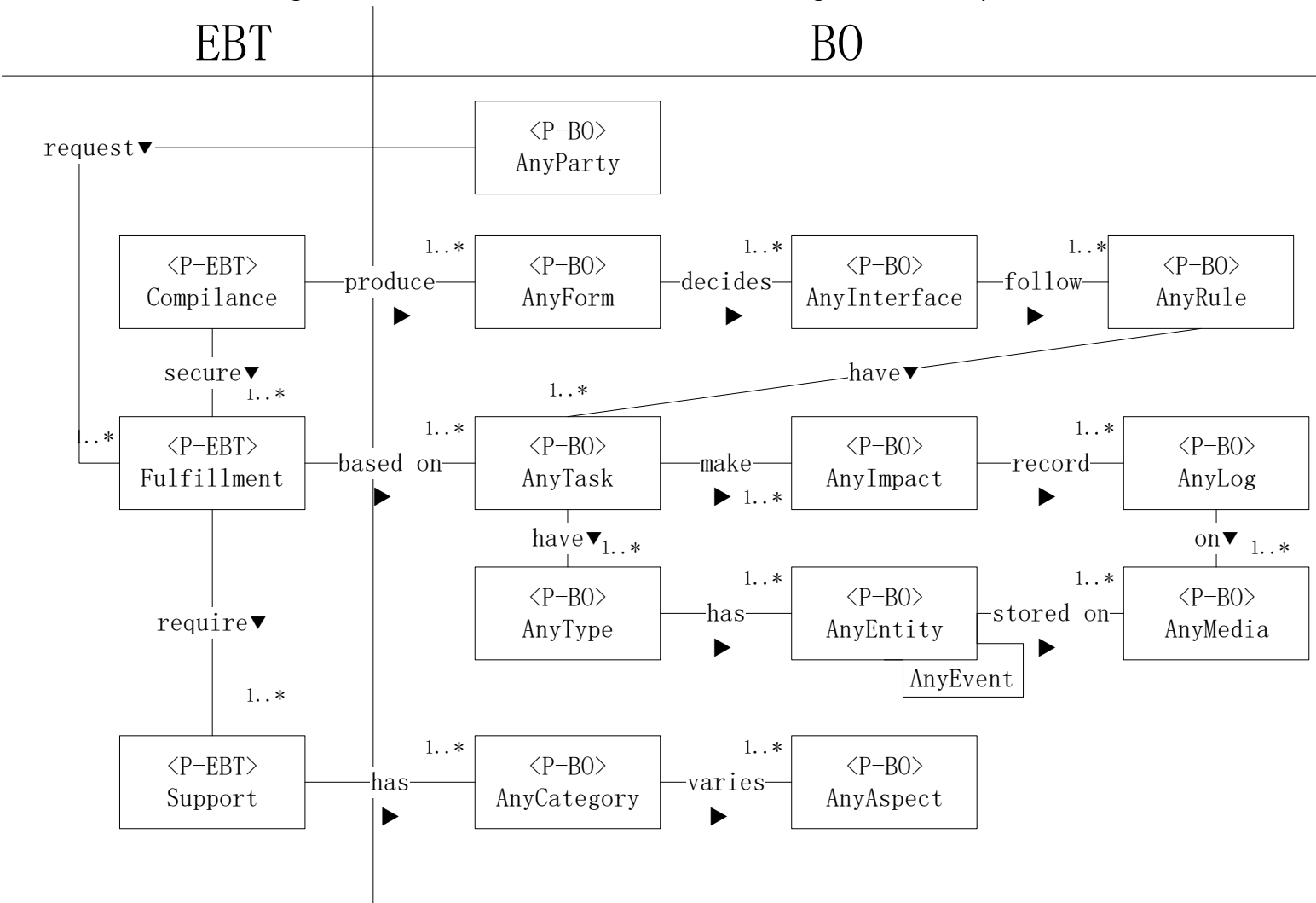

Figure 1: functional Requirement

Scenario Description

This scenario is about university courses searching engine website. Students can search course records in this website. After clicking the searching results, which are the wanted courses, the students can enroll in these courses.

The following diagram illustrate the application.

EBT | BO | IO

⟨P-BO⟩ AnyParty

⟨IO⟩ Teacher

request▼

⟨P-EBT⟩ Compilance — produce ▶ — 1..* ⟨P-BO⟩ AnyForm — 1..* decides ▶ — ⟨P-BO⟩ AnyInterface — 1..* follow ▶ — ⟨P-BO⟩ AnyRule

⟨IO⟩ Student

⟨IO⟩ Sechdule

has▼ 1..*

use▼

⟨IO⟩ WebInterface

secure▼ 1..*

1..* have▼

⟨P-EBT⟩ Fulfillment — based on ▶ — 1..* ⟨P-BO⟩ AnyTask — make ▶ 1..* — ⟨P-BO⟩ AnyImpact — record ▶ — ⟨P-BO⟩ AnyLog

does▼

has▼

⟨IO⟩ EnrollingRule

follow▼ 1..*

⟨IO⟩ Searching 1..*

have▼ 1..*

on▼ 1..*

support▼ 1..*

⟨P-BO⟩ AnyType — has ▶ 1..* — ⟨P-BO⟩ AnyEntity — stored on ▶ — ⟨P-BO⟩ AnyMedia

AnyEvent

⟨IO⟩ Enrolling

record▼

require▼ 1..*

⟨IO⟩ SearchingHistory 1..*

on▼ 1..*

⟨P-EBT⟩ Support — has ▶ 1..* — ⟨P-BO⟩ AnyCategory — varies ▶ 1..* — ⟨P-BO⟩ AnyAspect

⟨IO⟩ Internet

⟨IO⟩ Course 1..*

⟨IO⟩ CourseType

influence▼ 1..*

⟨IO⟩ SpecificAspect
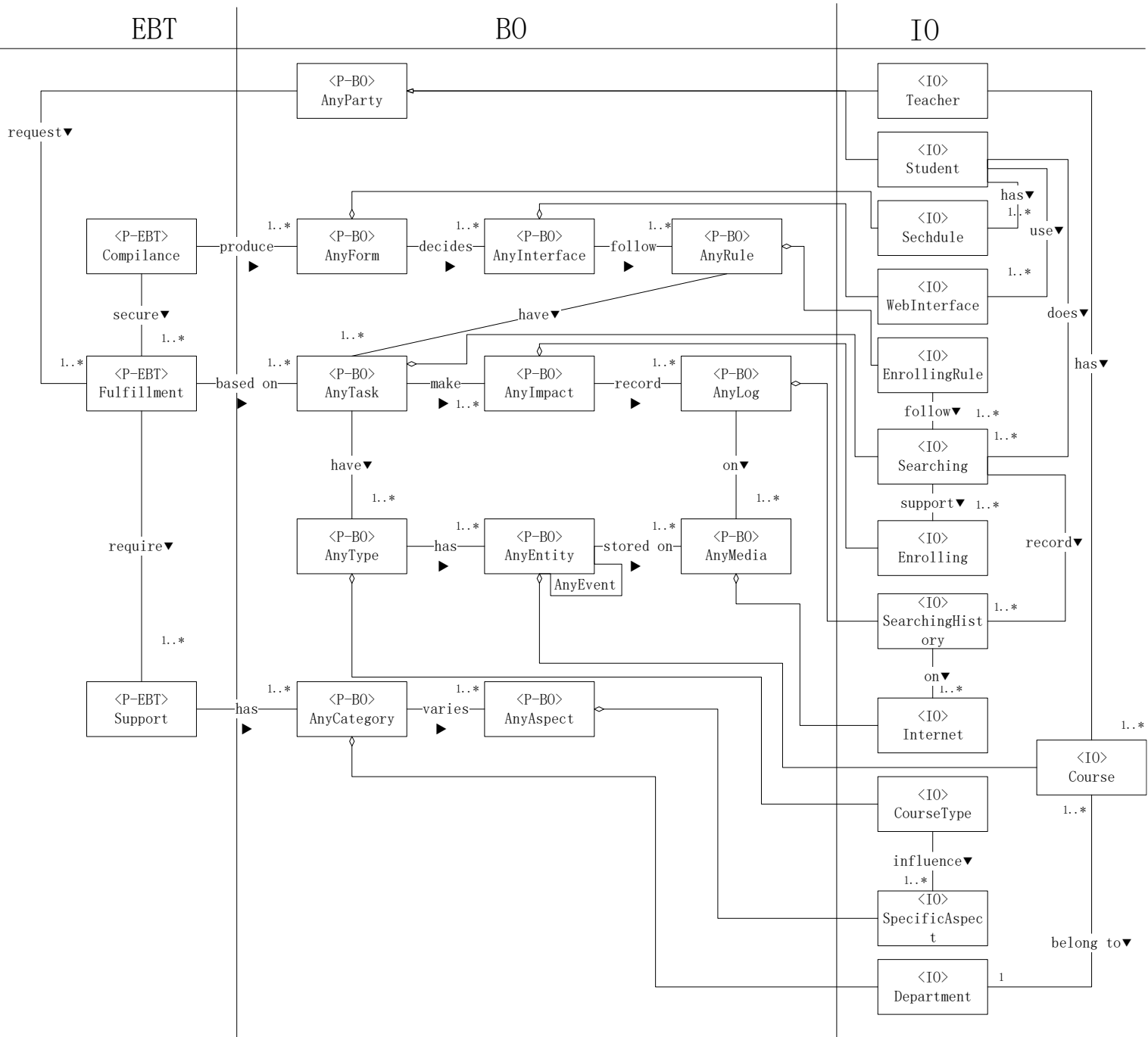
1..*

belong to▼

⟨IO⟩ Department 1

Figure 2: Application

The following are several steps of this scenario:

1. AnyForm(Schedule) decides AnyInterface(webInterFace) for user
2. AnyInterFace(WebInterface) follows AnyRule(SpecificRule)
3. AnyTask(Searching) makes AnyImpact(enrolling)
4. AnyImpact(enrolling) records AnyLog(SearchingHistory)
5. AnyLog(SearchingHistory) is on AnyMedia(Internet)
6. AnyTask(searching) have AnyRule(SpecificRule)
7. AnyType(SpecificType) has AnyEntity(Course)
8. AnyEntity(Course) is stored on AnyMedia(Internet)
9. AnyCategory(Department) varies AnyAspect(SpecificAspect