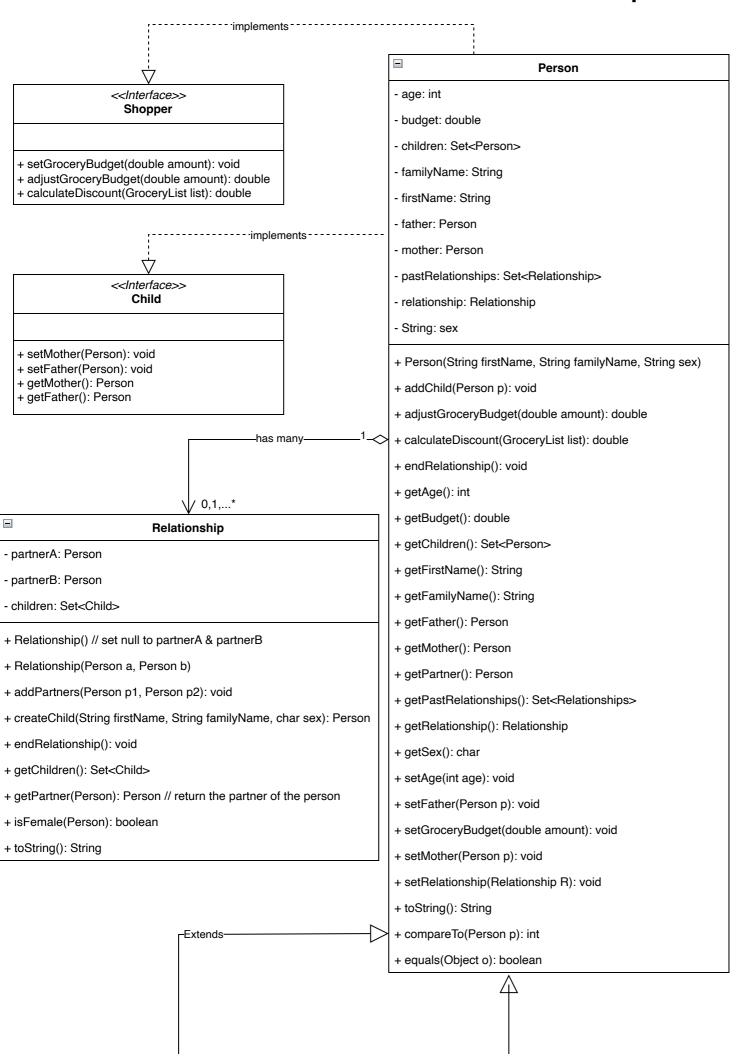
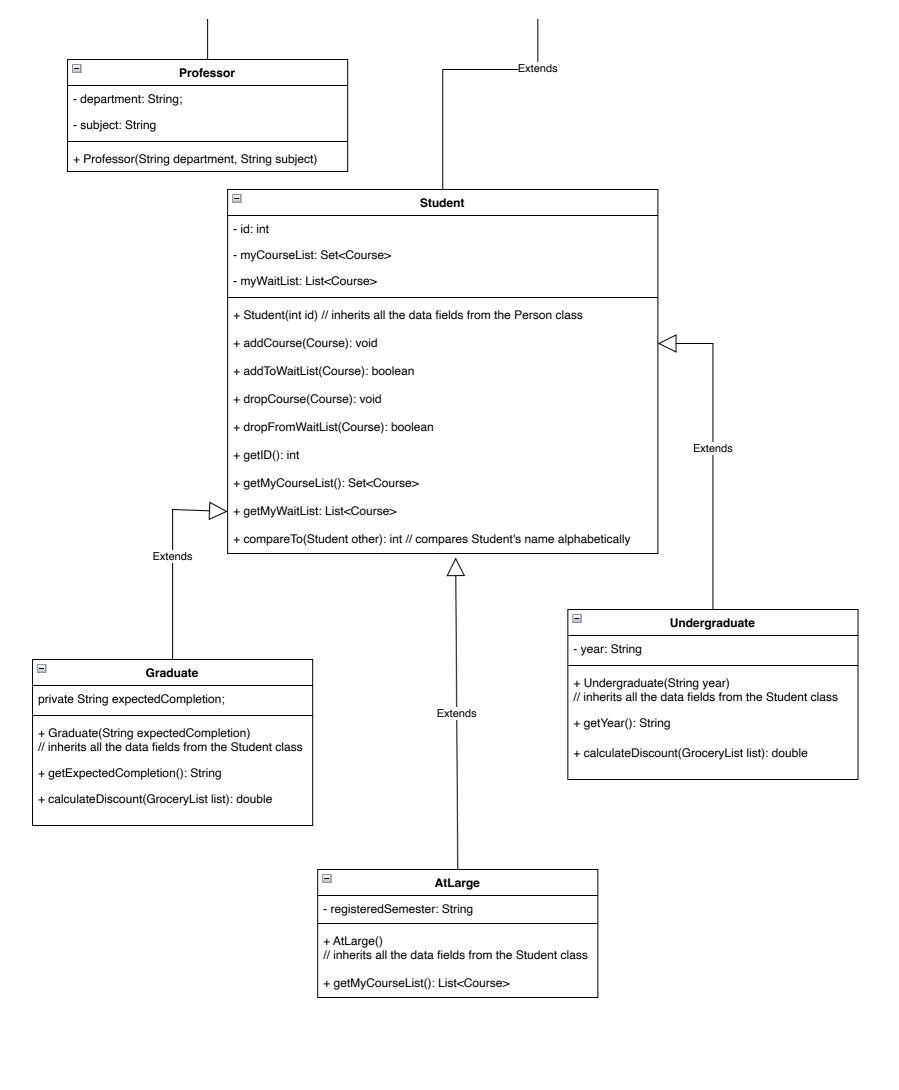
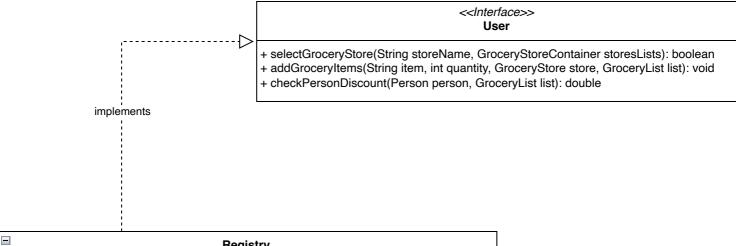


Person-Professor-Students-Relationship





Registry



Registry

- courseFinder: Map<String, Course>

- courses: ArrayList<Course>

- registeredPeople: Map<String, Person>

+ Registry(): //constructor

+ addGroceryItems(String itemName, int quantity, GroceryStore store, GroceryList list): void

+ addPerson(Person): void

+ checkPersonDiscount(Person, GroceryList): double

+ enrollStudent(String firstName, String familyName, String dept, int cNum): void

+ getAllChildren(Person): ArrayList<Person>

+ getCourse(String dept, int cNum): Course

+ getCourses(): ArrayList<Course>

+ getMaternalLine(Person): ArrayList<Person>

+ getPaternalLine(Person): ArrayList<Person>

+ getPerson(String firstName, String familyName, String sex): Person

+ makeNewPerson(String firstName, String familyName, String sex): Person

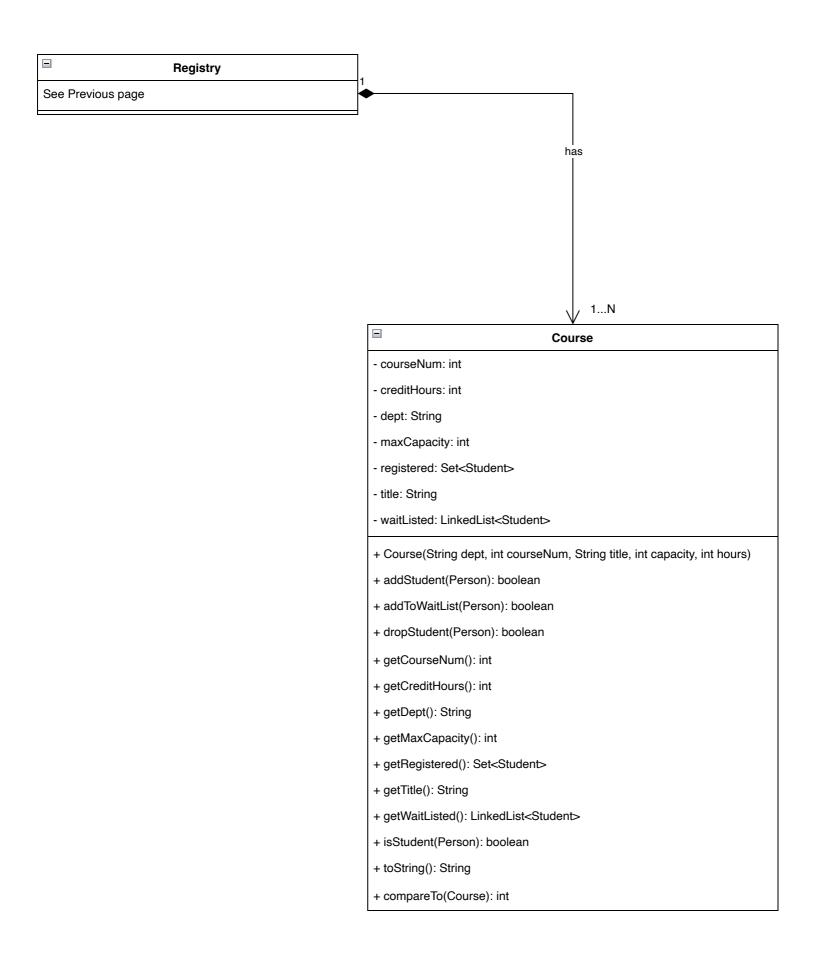
+ recordCourse(String dept, int cNum, String title, int maxCap, int hours): void

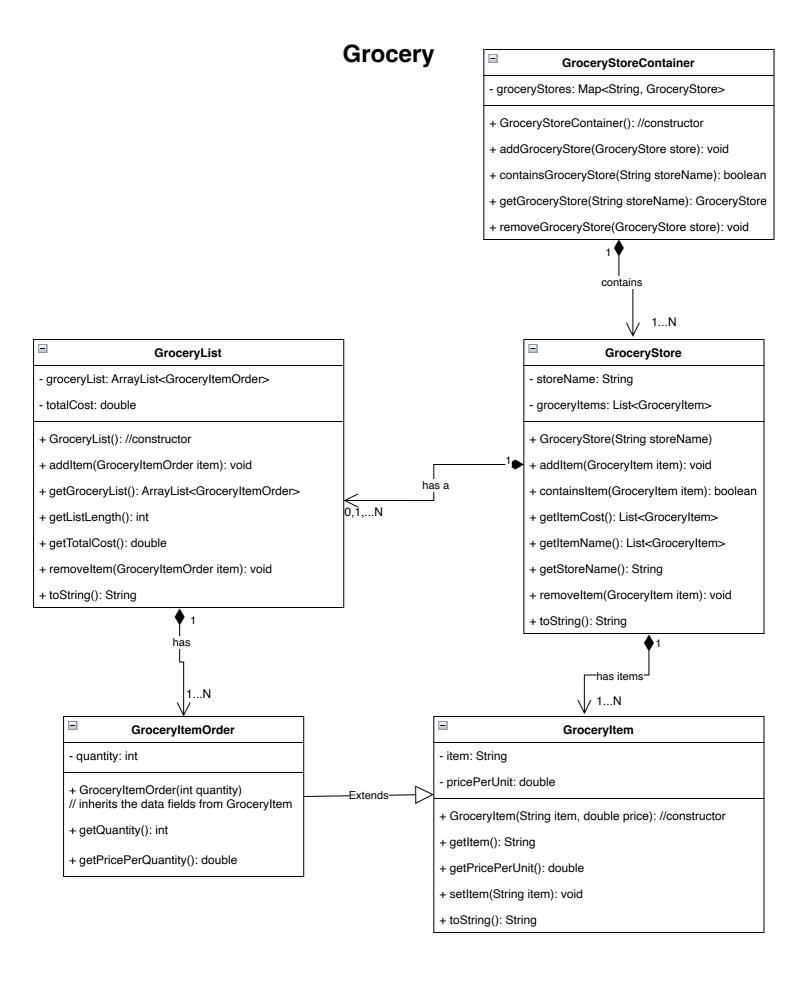
+ removeStudent(String firstName, String familyName, String dept, int cNum): void

+ selectGroceryStore(String storeName, GroceryStoreContainer storeLists): boolean

+ toString(): String

Course





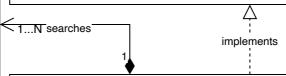
Final UML

-Person - age: int - budget: double - children: Set<Person> - familyName: String - firstName: String - father: Person mother: Person - pastRelationships: Set<Relationship> - relationship: Relationship - String: sex + Person(String firstName, String familyName, String sex) + addChild(Person p): void + adjustGroceryBudget(double amount): double + calculateDiscount(GroceryList list): double + endRelationship(): void + getAge(): int + getBudget(): double + getChildren(): Set<Person> + getFirstName(): String + getFamilyName(): String + getFather(): Person + getMother(): Person + getPartner(): Person + getPastRelationships(): Set<Relationships> + getRelationship(): Relationship + getSex(): char + setAge(int age): void + setFather(Person p): void + setGroceryBudget(double amount): void + setMother(Person p): void + setRelationship(Relationship R): void + toString(): String + compareTo(Person p): int

+ equals(Object o): boolean

<<Interface>>

- + selectGroceryStore(String storeName, GroceryStoreContainer storesLists): boolean
- + addGroceryItems(String item, int quantity, GroceryStore store, GroceryList list): void
- + checkPersonDiscount(Person person, GroceryList list): double

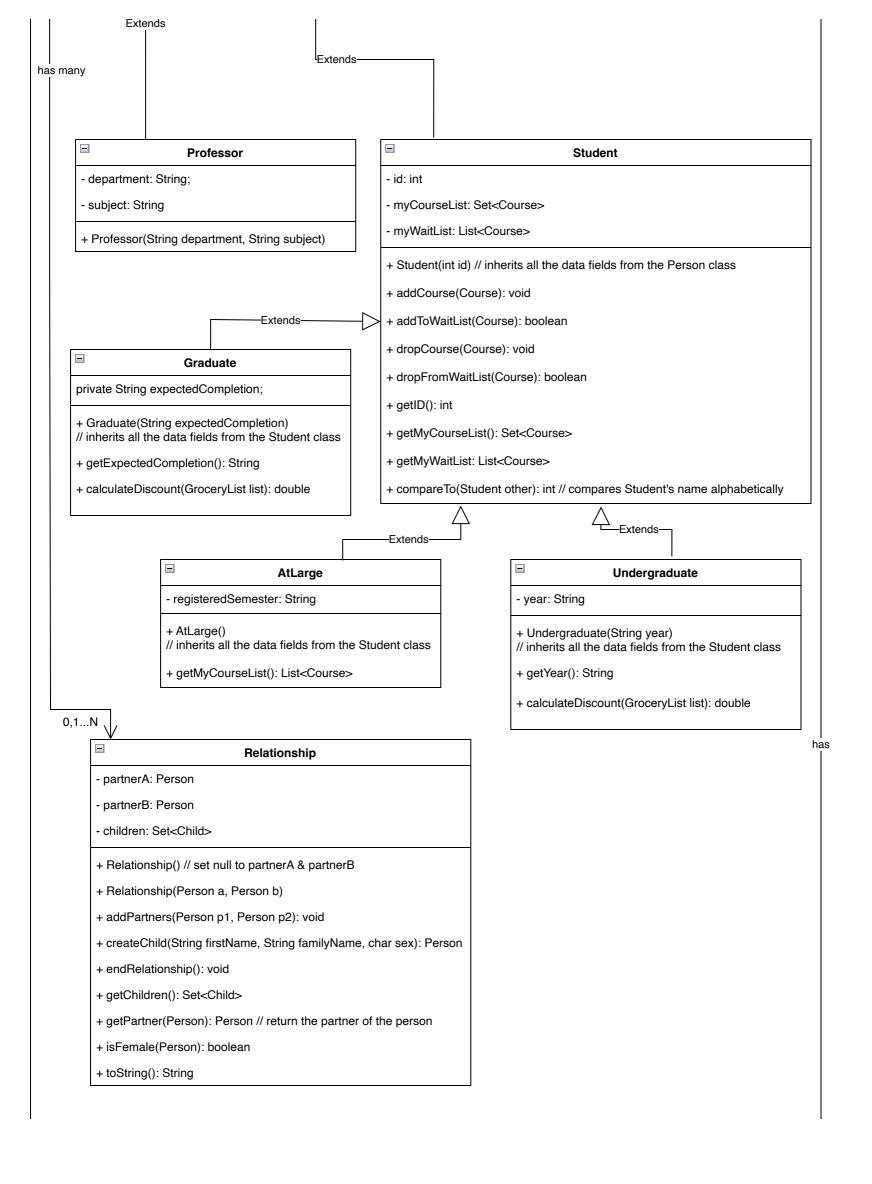


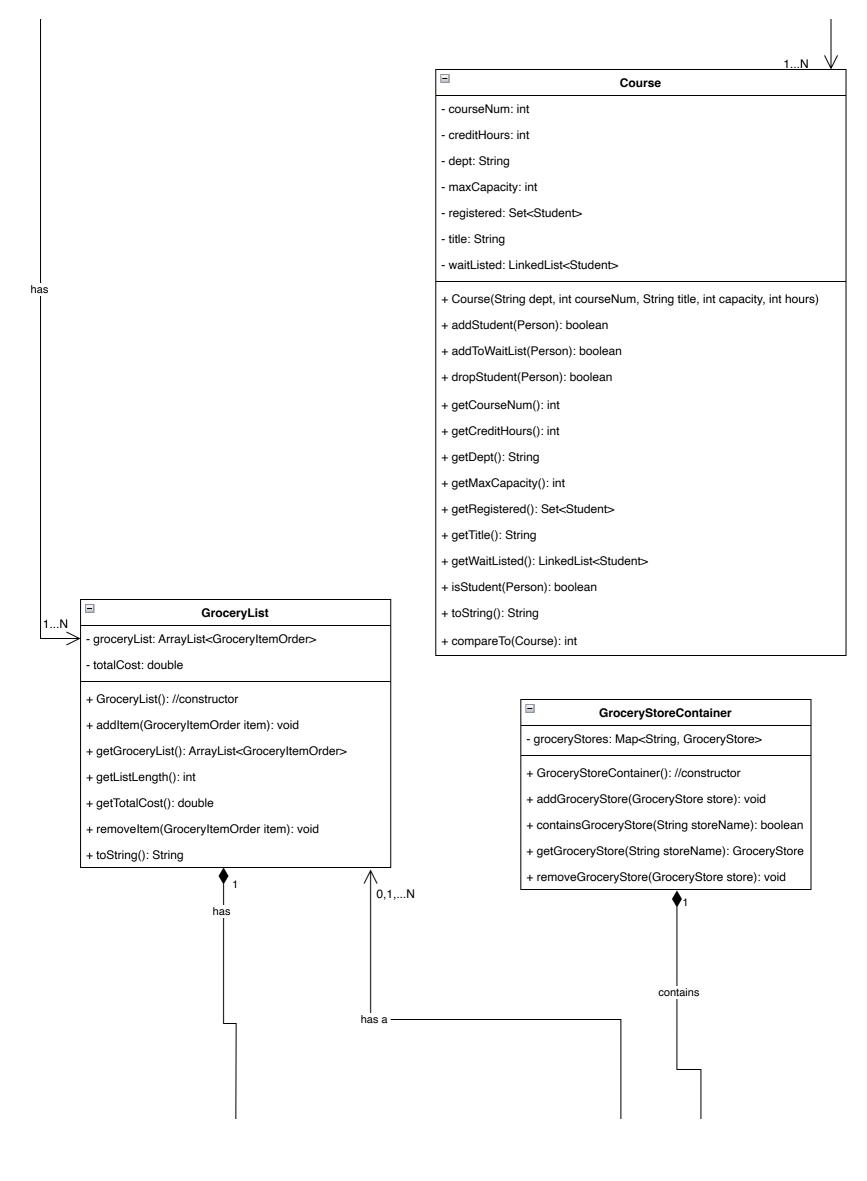
Registry

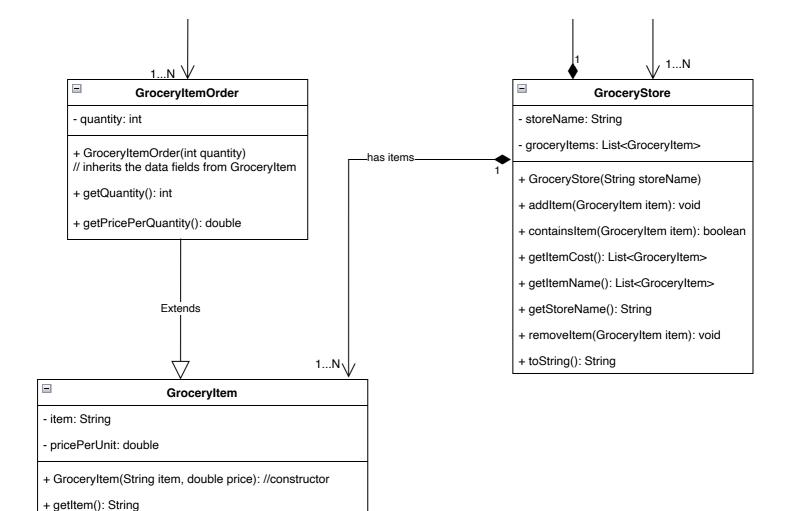
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- + getCourses(): ArrayList<Course>
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- + getPaternalLine(Person): ArrayList<Person>
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- $+ \ make New Person (String \ first Name, \ String \ family Name, \ String \ sex): \ Person$
- + recordCourse(String dept, int cNum, String title, int maxCap, int hours): void
- + removeStudent(String firstName, String familyName, String dept, int cNum): void
- + selectGroceryStore(String storeName, GroceryStoreContainer storeLists): boolean
- + toString(): String







+ getPricePerUnit(): double
+ setItem(String item): void

+ toString(): String