

**JSONWriter** 

department: Department

jsonNode: JsonNode

writeStudents(): void

start(Department): void

writeTranscripts(): void

writeRequests(): void

main

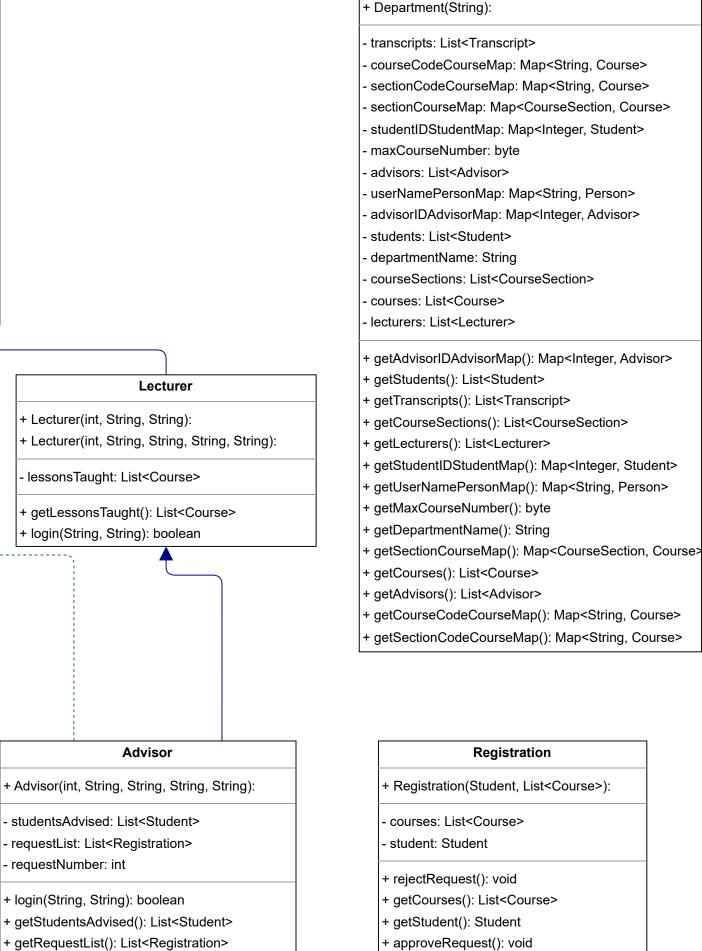
main(String[]): void

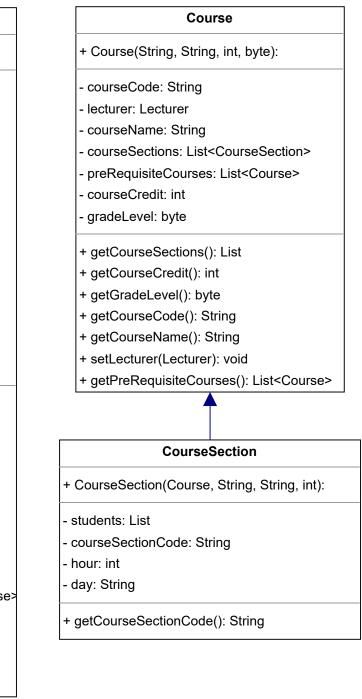
main():

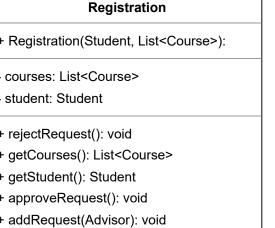
writeJson(): void

objectMapper: ObjectMapper

JSONWriter():



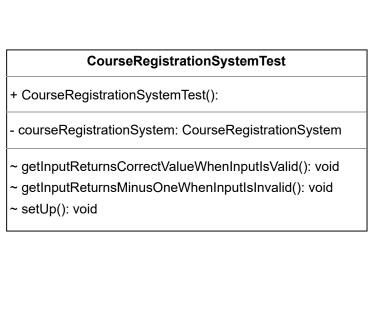




Department

Grade + Grade(String): - gradeOver4: double - gradeOver100: int letterGrade: String setGradeOver4(): void setGradeOver100(): void + getLetterGrade(): String + getGradeOver4(): double

```
TranscriptTest
· TranscriptTest():
- course2: Course
- course1: Course
- transcript: Transcript
- course3: Course
calculateCgpaWithCoursesAndGrades(): void
calculateCgpaWithCoursesNoGrades(): void
setUp(): void
calculateCgpaWithNoCourses(): void
```



calculateCompletedCreditsTest		
+ calculateCompletedCreditsTest():		
- grade4: Grade		
- course3: Course		
- course2: Course		
- grade1: Grade		
- course4: Course		
- transcript: Transcript		
- grade2: Grade		
- course1: Course		
- grade3: Grade		
~ calculateCompletedCredits(): void		
~ setUp(): void		

Person {abstract}

Person(int, String, String, String, String):

- ID: int

name: String

userName: String

password: String

surname: String

getName(): String

getID(): int

· department: Department

setDepartment(Department): void

- setUserName(String): void

· login(String, String): boolean

- getDepartment(): Department

<<interface>>

CourseRegistrationSystem

+ courseSelectionMenu(Student): void

+ CourseRegistrationSystem():

department: Department

+ exitProgram(): void

+ printMenu(String): void

+ studentMenu(Student): void

+ loginMenu(Department): void

+ mainMenu(Department): void + advisorMenu(Advisor): void

- choice: int

+ start(): void

+ getInput(): int

- input: Scanner

**IDisplayMenu** 

+ printMenu(String): void

Student

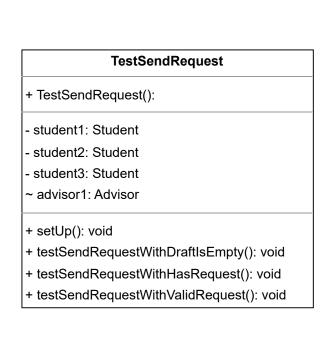
getDepartmentName(): String - setAdvisor(Advisor): void getTranscript(): Transcript - viewAvailableCourses(): void

- sendRequest(): void - getGradeLevel(): byte + printMenu(String): void - setPassword(String): void

getPassword(): String

- getSurname(): String

+ getUserName(): String



+ printRequests(): void

+ replyRequests(): void

+ printMenu(String): void

+ getRequests(): List<Registration>

RegistrationTest	
+ RegistrationTest():	
- courses: List <course< td=""><td>e&gt;</td></course<>	e>
- course1: Course	
- student: Student	
- course2: Course	
- registration: Registra	ation
~ approveRequestTes	st(): void
~ rejectRequestTest():	void
~ addRequestTest(): v	oid/

setUp(): void

PersonTest	
+ PersonTest	t():
- person: Per	rson
+ setUp(): vo	id
+ loginShould	dReturnFalseWhenCredentialsAreInvalid(): void
+ loginShould	dReturnTrueWhenCredentialsAreValid(): void