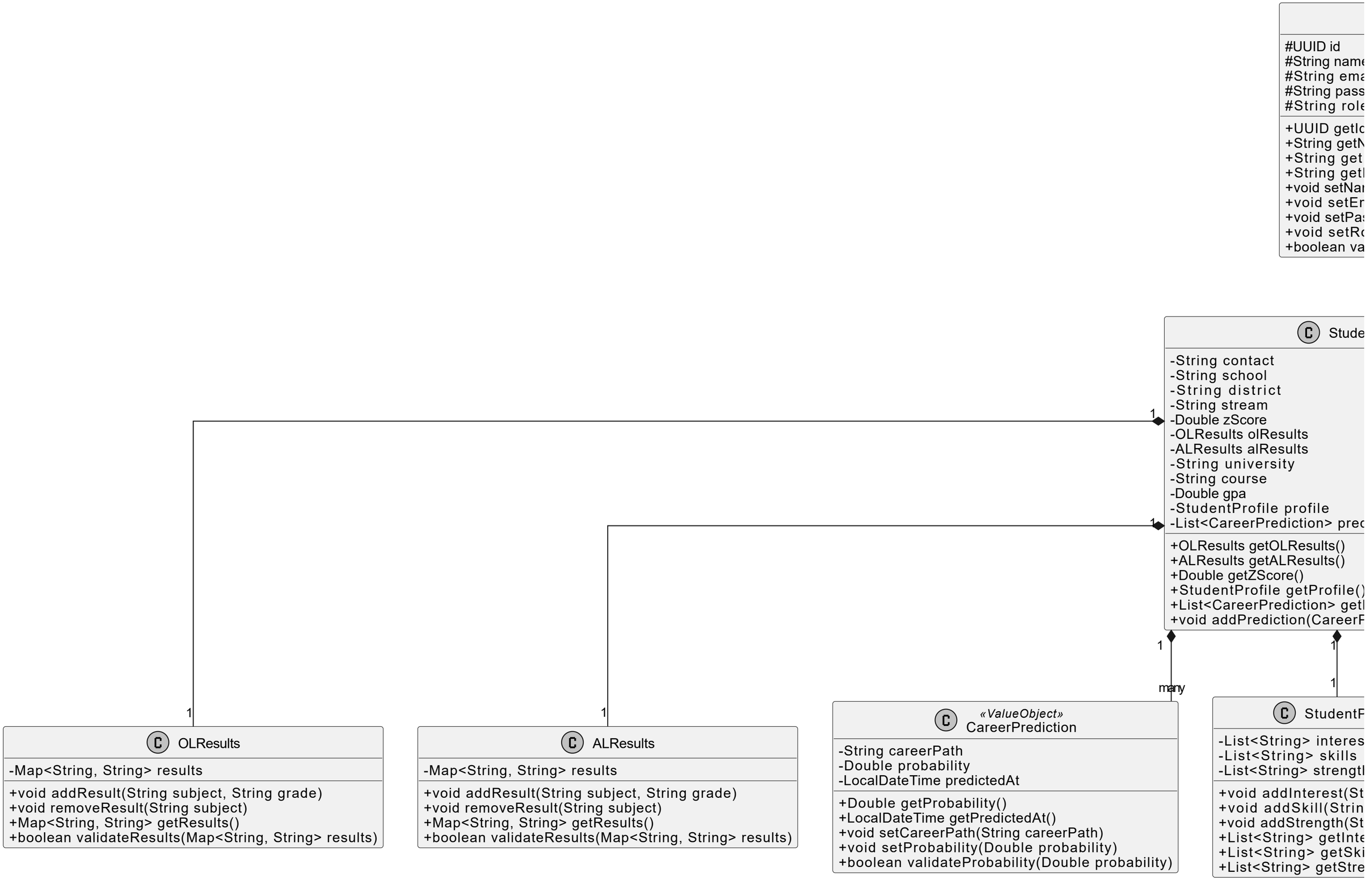
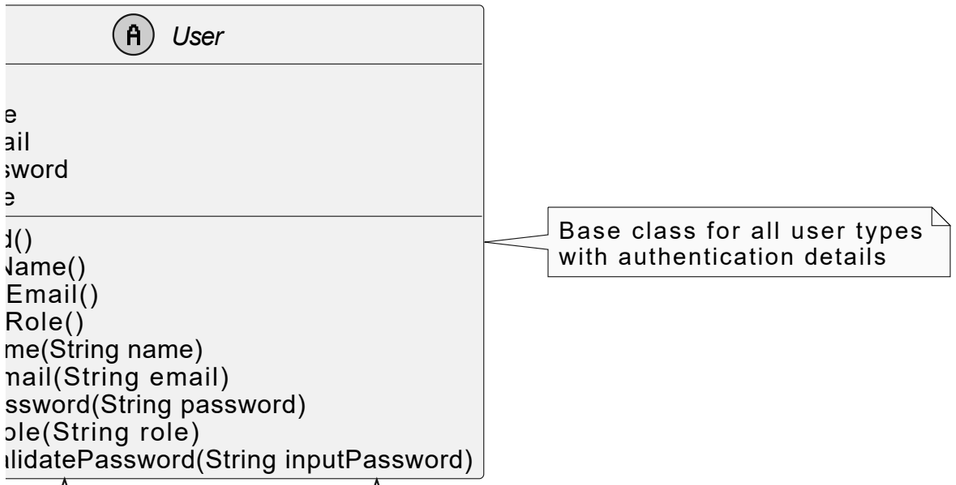
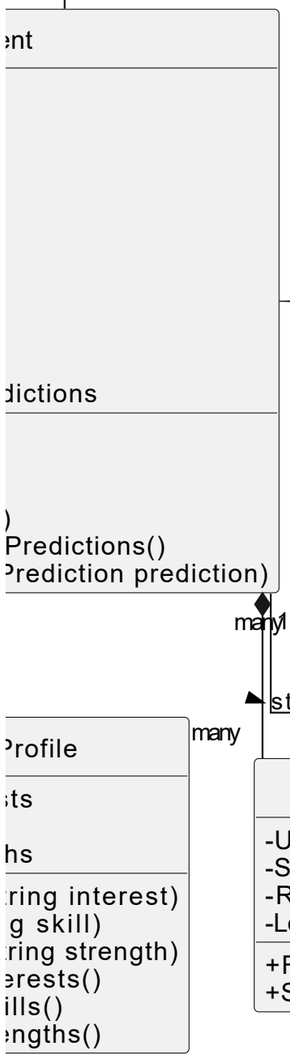

#UUID id
#String name
#String ema
#String pass
#String role
+UUID getId
+String getN
+String get
+String getE
+void setNa
+void setEr
+void setPa
+void setRo
+boolean va
Stude
-String contact
-String school
-String district
-String stream
-Double zScore
-OLResults olResults
-ALResults alResults
-String university
-String course
-Double gpa
-StudentProfile profile
-List<CareerPrediction> prec
+OLResults getOLResults()
+ALResults getALResults()
+Double getZScore()
+StudentProfile getProfile()
+List<CareerPrediction> getI
+void addPrediction(CareerP
1
1
1
1
1
1
1
1
many
OLResults
-Map<String, String> results
+void addResult(String subject, String grade)
+void removeResult(String subject)
+Map<String, String> getResults()
+boolean validateResults(Map<String, String> results)
ALResults
-Map<String, String> results
+void addResult(String subject, String grade)
+void removeResult(String subject)
+Map<String, String> getResults()
+boolean validateResults(Map<String, String> results)
«ValueObject»
CareerPrediction
-String careerPath
-Double probability
-LocalDateTime predictedAt
+Double getProbability()
+LocalDateTime getPredictedAt()
+void setCareerPath(String careerPath)
+void setProbability(Double probability)
+boolean validateProbability(Double probability)
StudentP
-List<String> interes
-List<String> skills
-List<String> strengtl
+void addInterest(St
+void addSkill(Strin
+void addStrength(St
+List<String> getInte
+List<String> getSki
+List<String> getStre



Base class for all user types with authentication details



Extends User with academic and personal information

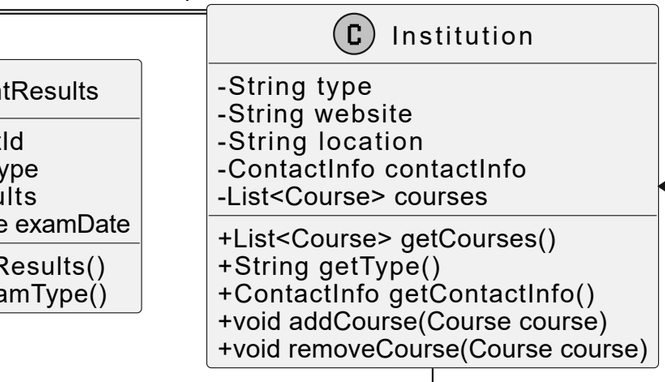
many

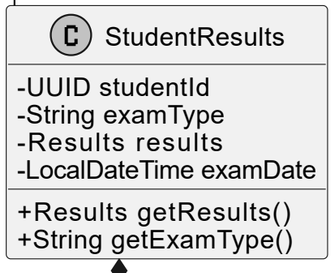
1

studies at

1

many





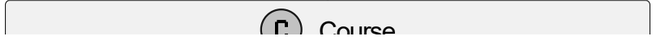
1

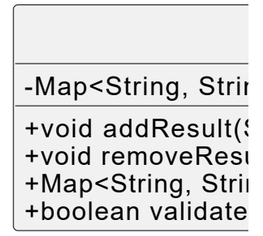
1

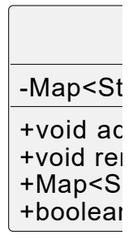
many

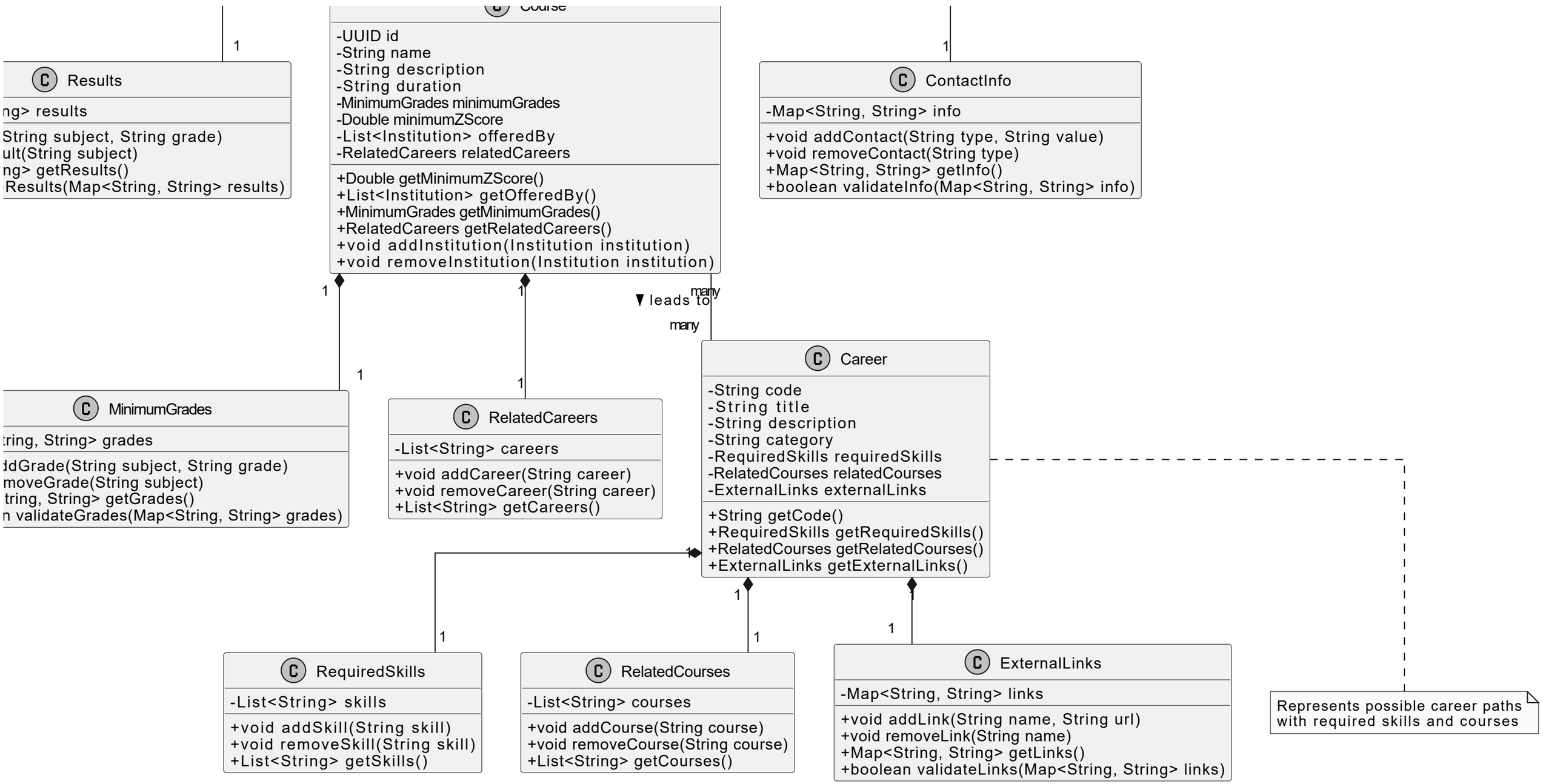
offers

many




-Map<String, Strin
+void addResult(S
+void removeResu
+Map<String, Strin
+boolean validate


-Map<St
+void ad
+void re
+Map<S
+boolean


Course
-UUID id
-String name
-String description
-String duration
-MinimumGrades minimumGrades
-Double minimumZScore
-List<Institution> offeredBy
-RelatedCareers relatedCareers
+Double getMinimumZScore()
+List<Institution> getOfferedBy()
+MinimumGrades getMinimumGrades()
+RelatedCareers getRelatedCareers()
+void addInstitution(Institution institution)
+void removeInstitution(Institution institution)
Results
ng> results
String subject, String grade)
ult(String subject)
ng> getResults()
Results(Map<String, String> results)
ContactInfo
-Map<String, String> info
+void addContact(String type, String value)
+void removeContact(String type)
+Map<String, String> getInfo()
+boolean validateInfo(Map<String, String> info)
leads to
many
many
Career
-String code
-String title
-String description
-String category
-RequiredSkills requiredSkills
-RelatedCourses relatedCourses
-ExternalLinks externalLinks
+String getCode()
+RequiredSkills getRequiredSkills()
+RelatedCourses getRelatedCourses()
+ExternalLinks getExternalLinks()
MinimumGrades
tring, String> grades
ddGrade(String subject, String grade)
moveGrade(String subject)
tring, String> getGrades()
n validateGrades(Map<String, String> grades)
RelatedCareers
-List<String> careers
+void addCareer(String career)
+void removeCareer(String career)
+List<String> getCareers()
RequiredSkills
-List<String> skills
+void addSkill(String skill)
+void removeSkill(String skill)
+List<String> getSkills()
RelatedCourses
-List<String> courses
+void addCourse(String course)
+void removeCourse(String course)
+List<String> getCourses()
ExternalLinks
-Map<String, String> links
+void addLink(String name, String url)
+void removeLink(String name)
+Map<String, String> getLinks()
+boolean validateLinks(Map<String, String> links)
Represents possible career paths
with required skills and courses