OneTutor®

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Nachhilfe- und Lernsoftware

Zielgruppe: Schüler & Studenten

Hilfe durch Nachhilfelehrer

UML (alt)

CPlatform

m_institutions : ArrayList<CInstitution> m_admins : ArrayList<CMember>

register() : Boolean

login(member : CMember) : Boolean logout(member : CMember) : Boolean

CInstitution

m_course : ArrayList<CCourse> m_member : ArrayList<CMember> m_admins : ArrayList<CMember>

m_ID : Integer

loginCourse()

createCourse() : CCourse

deleteCourse(_course : ArrayList<CCourse>) : Boolean

CCourse

m_exercise : ArrayList<CExercise> m_member : ArrayList<CMember>

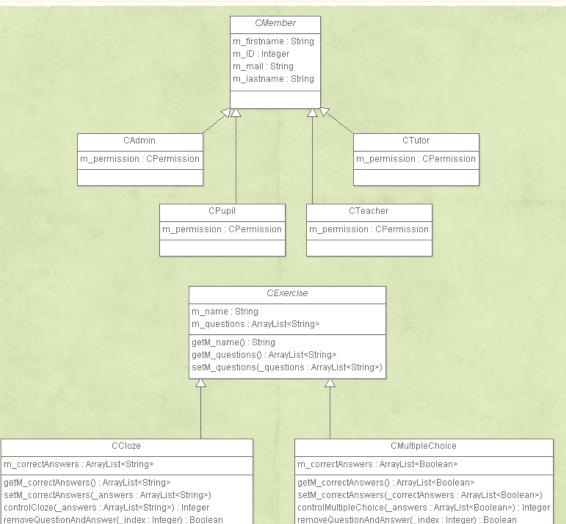
m_license : CLicense

m_material : ArrayList<CMaterial>

m_title : String

m_courseAdmin : CMember

setExercise(_exercise : CExercise) setMaterial(_material : CMaterial)



addQuestionAndAnswer(_question : String,_answer : Boolean)

addQuestionAndAnswer(_question : String,_answer : String)

CPermission

m_write : Boolean m_read : Boolean m_execute : Boolean

isM_execute() : Boolean setM_execute(_execute : Boolean)

isM_read() : Boolean setM_read(_read : Boolean) isM_write() : Boolean

setM_write(_write : Boolean)

CLicense

m_key : Integer m_rand : Random

validateKey(_key : Integer) : Boolean

getM_key() : Integer

CMaterial

CDataBase

CDalabase

UML

CPlatform

m_institutions : ArrayList<CInstitution> m_admins : ArrayList<CMember> m_members : ArrayList<CMember>

register(): Boolean

login(member : CMember) : Boolean

CInstitution

m_course : ArrayList<CCourse>
m_admins : ArrayList<CMember>

m_ID: Integer

loginCourse(_member : CMember,_key : Integer) : Boolean

createCourse(): CCourse

deleteCourse(_course : CCourse) : Boolean

logoutCourse(_member : CMember,_course : CCourse) : Boolean

CCourse

m_exercises : ArrayList<CExercise> m_members : ArrayList<CMember>

m license : CLicense

m_materials : ArrayList<CMaterial>

m_title : String

m_courseAdmin : CMember m_InstitutionID : Integer

setExercise(_exercise : CExercise)

setMaterial(_name : String)

removeExercise(_index : Integer) : Boolean removeMaterial(_index : Integer) : Boolean

controlExercise(_index : Integer,_member : CMember) : Boolean

addMember(_member : CMember) removeMember(_member : CMember)

CExercise

m_name : String

m_questions : ArrayList<String>

getM_name(): String

getM_questions(): ArrayList<String>

|setM_questions(_questions : ArrayList<String>)

CCloze

m_correctAnswers : ArrayList<String>

getM_correctAnswers() : ArrayList<String>

setM_correctAnswers(_answers:ArrayList<String>)
controlCloze(_answers:ArrayList<String>):Integer

removeQuestionAndAnswer(_index : Integer) : Boolean

addQuestionAndAnswer(_question : String,_answer : String)

CMultipleChoice

m_correctAnswers : ArrayList<Boolean>

getM_correctAnswers(): ArrayList<Boolean>

setM_correctAnswers(_correctAnswers : ArrayList<Boolean>)

controlMultipleChoice(_answers : ArrayList<Boolean>) : Integer

removeQuestionAndAnswer(_index : Integer) : Boolean

addQuestionAndAnswer(_question : String,_answer : Boolean)

CMaterial |

m_name : String m_filepath : String

getM_name() : String setM_name(_name : String)

getM_filePath() : String

setM_filePath(_filePath : String)

CMember

m_firstname : String

m_ID : Integer m_mail : String m_lastname : String

m_courses : ArrayList<CCourse>

CLicense

m_key : Integer m_rand : Random

validateKey(_key : Integer) : Boolean

getM_key() : Integer

CDataBase

Geänderte Klassen

Plattform (alt)

Variablen

- ArrayList Clnstitution
 a_institutions
- ArrayList CMember a_admins

Methoden

- boolean register()
- boolean login(Member _member)
- boolean logout(Member _member)

Plattform

Variablen

- ArrayList<CInstitution> m_institutions
- ArrayList<CMember> m_admins
- ArrayList<CMember> m_member

Methoden

- CMember register(String _firstname,
 ...)
- boolean login(String _mail)
- Getter & Setter | Add & Remove

Geänderte Klassen

Institution (alt)

Variablen

- ArrayList CCourse a_courses
- ArrayList CMember a_member
- ArrayList CMember a_admins
- Int m_ID

Methoden

- void loginCourse(CCourse _course)
- CCourse createCourse()
- boolean deleteCourse(CCourse _course)

Institution

Variablen

- ArrayList<CCourse> m_course
- ArrayList<CMember> m_admins
- Int m_ID

Methoden

- boolean loginCourse(int _key...)
- boolean logoutCourse(CMember ...)
- CCourse addCourse(String _title...)
- boolean deleteCourse(CCourse _course...)
- weitere Getter & Setter | Add & Remove

Geänderte Klassen

Member (alt)

Variablen

- String m_firstname
- String m_lastname
- Int m_ID
- String m_mail

Methoden

Getter & Setter

-> erbende Klassen:

• CAdmin, CPupil, CTeacher, CTutor (beinhalten Berechtigungen)

Member

Variablen

- String m_firstname
- String m_lastname
- Int m_ID
- String m_mail
- ArrayList<CCourse> m_courses

Methoden

- Getter & Setter
- -> Berechtigungen werden nun über ID definiert

Neue Klasse

Material

Variablen

- String m_name
- String m_filePath
- String m_fileType
- int m_ID

Methoden

Getter & Setter

Kleinere Änderungen

Course

 Implementieren der Methode setMaterial (Fileupload)

CPermission

gelöscht

CDatabase

erstellt → Nutzung für Testdaten

Probleme

Codestyle Absprache

Fileupload für alle Dateitypen

- Kontinuität im Code
 - -> .remove Methode der ArrayList sowohl mit Index als auch mit Objekt

Kommende Schritte

Kontinuität im Code herstellen

Programmierung fehlender Unit-Tests

Dokumentation

Vielen Dank für Ihre Aufmerksamkeit