

LO21  
Projet  
**PluriNotes**

Maxime Lotton, Théophile Molcard, Théo Portmann

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# 1 | Présentation du projet ?

## **2 | UML**

Pour l'UML on le séparera en plusieurs parties avec des packages je pense.

Memento
-titre: QString
-date Modif: QDateTime
+getTitle(): QString (const)
+getDateModif(): const QDateTime (const)
+Memento(_titre:QString)
+Memento(_titre:QString, _dateModif:QDateTime)
+Memento(): virtual
+saveXML(): void (virtual)
+dateToString(date:QDateTime): QString

Gardien
-tab memento: QList<Memento>
+Gardien()
+Gardien(mem:Memento*)
+Gardien()
+addMemento(mem:Memento*): void
+getMemento(dateModif:QDateTime): Memento*
+sizeMemento(): unsigned int
+empty(): bool (const)
+getIterator(): Iterator (const)

MementoMultimedia
-description: QString
-fichier: QString
-type: TypeMultimedia
+MementoMultimedia(_titre:QString, _description:QString, _fichier:QString, _type:TypeMultimedia)
+MementoMultimedia(_titre:QString, _description:QString, _fichier:QString, _type:TypeMultimedia, _dateModif:QDateTime)
+getDescription(): QString (const)
+getFichier(): QString (const)
+getType(): TypeMultimedia (const)
+QString(): typeToString
+saveXML(stream:QXmlStreamWriter*): void (virtual)

MementoTache
-action: QString
-priorite: unsigned int
-date_echance: QDateTime
-statut: TypeStatut
+MementoTache(_titre:QString, _action:QString, _date_echance:QDateTime, _priorite:unsigned int=0, _statut:TypeStatut=ours)
+MementoTache(_titre:QString, _action:QString, _priorite:unsigned int=0, _statut:TypeStatut=ours)
+getAction(): QString (const)
+getPriorite(): unsigned int (const)
+getDateChance(): QDateTime (const)
+getStatut(): TypeStatut (const)
+statutToString(): QString
+saveXML(stream:QXmlStreamWriter*): void (virtual)

MementoArticle
-texte: QString
+MementoArticle(_titre:QString, _texte:QString)
+MementoArticle(_titre:QString, _texte:QString, _dateModif:QDateTime)
+getTexte(): QString (const)
+getTitre(): QString (const)
+saveXML(): void (virtual)

Article
-texte: QString
+getTexte(): QString
+setTexte(_texte:QString): void
+Article(id:QString, _titre:QString, _texte:QString)
+Article(id:QString, _titre:QString, _texte:QString, _dateCrea:QDateTime, _dateModif:QDateTime, _stat:TypeStatNote=active)
+Article()
+createMemento(): Memento*
+createMemento(mem:Memento*): void
+saveXML(stream:QXmlStreamWriter*): void

multimedia
-description: QString
-fichier: QString
-type: TypeMultimedia
+getDescription(): QString
+Multimedia(id:QString, _titre:QString, _desc:QString, _fichier:QString, _type:TypeMultimedia)
+Multimedia(id:QString, _titre:QString, _desc:QString, _fichier:QString, _type:TypeMultimedia, _dateCrea:QDateTime, _dateModif:QDateTime, _stat:TypeStatNote=active)
+Multimedia()
+getDescription(): QString (const)
+getFichier(): QString (const)
+getType(): TypeMultimedia (const)
+setDescription(desc:QString): void
+setFichier(file:QString): void
+setType(_type:TypeMultimedia): void
+typeToString(): QString
+createMemento(): Memento* (const)
+createMemento(mem:Memento*): void
+saveXML(stream:QXmlStreamWriter*): void

Tache
-action: QString
-priorite: unsigned int
-date_echance: QDateTime
-statut: TypeStatut = attente
+Tache(id:QString, _titre:QString, _action:QString, _date:QDateTime, _priorite:unsigned int=0, _statut:TypeStatut=attente)
+Tache(id:QString, _titre:QString, _action:QString, _date:QDateTime, _dateCrea:QDateTime, _dateModif:QDateTime, _priorite:unsigned int, _statut:TypeStatut=attente)
+Tache()
+getAction(): QString
+getPriorite(): unsigned int
+getDateChance(): QDateTime
+getStatut(): TypeStatut
+setAction(_action:QString): void
+setPriority(_priorite:unsigned int): void
+setDateChance(date:QDateTime): void
+setStatut(_statut:TypeStatut): void
+statutToString(): QString
+createMemento(): Memento*
+createMemento(mem:Memento*): void
+saveXML(stream:QXmlStreamWriter*): void

<<enumeration>>
type_statut
en_attente
en_cours
termine

NotesManager
-tabNotes: Notes**
-nbNotes: unsigned int
-nbMaxNotes: unsigned int
<< static >> Instance: NotesManager*
+addNote(n:Note*): void
+deleteNote(id:const QString&): void
+deleteArchive(): void
+viderCorbeille(): void
+restaureCorbeille(): void
+testCorbeille(): bool
+restaureArchiveNote(id:const QString&): void
+existeNote(id:const QString&): bool
<<static>> donneInstance(): NotesManager*
<<static>> supprimeInstance(): void
+getIterator(): Iterator
+getNote(id:const QString&): Notes
+createNote(id:const string, titre:const string&): void
+saveNote(id:const string&): void
+saveEverythingXML(): void
+loadFileXML(): void
+saveVersion(_note:Note*): void
+restateVersion(_note:Note*, version:QDateTime): void
+NotesManager()
+NotesManager(): const NotesManagers
+operator =(const NotesManagers&): void

RelationManager
-tabRelations: Relation**
-nbRelations: unsigned int
-nbMaxRelations: unsigned int
-Instance: RelationManager* [static]
+addRelation(rel:Relation*): void
+deleteRelation(_titre:QString): void
+getRelation(_titre:QString): Relation*
+createReference(): void
+updateReference(id:Note:const QString&, text:const QString&): bool
+existeRelation(_titre:QString): bool
+donneInstance(): RelationManager* (static)
+supprimeInstance(): void (static)
+getIterator(): Iterator
+saveEverythingRelationXML(stream:QXmlStreamWriter*): void
+loadRelationXML(stream:QXmlStreamReader*): void
+RelationManager()
+RelationManager(const RelationManagers)
+operator =(const RelationManagers&): void

Note
-identification: QString
-titre: QString
-date_creation: QDateTime
-date_modif: QDateTime
-etat: TypeStatNote
-gardien_note: Gardien*
+friend class NotesManager
+getid(): QString (const)
+getTitle(): QString (const)
+getDateCrea(): QDateTime (const)
+getDateModif(): QDateTime (const)
+getGardien(): Gardien* (const)
+setTitre(): void
+setStateModif(): void
+dateToQString(): QString (const)
+etatToQString(): QString (const)
+getMemento(Memento*mem): void (virtual) = 0
+createMemento(): Memento* (const , virtual) = 0
+saveXML(stream:QXmlStreamWriter*): void (virtual) = 0
+Note(_id:QString, _titre:QString, _dateCrea:QDateTime, _dateModif:QDateTime, TypeStatNote:_etat=active)
+Note(id:QString, _titre:QString)
+Note()

Relation
-titre: QString
-description: QString
-tabCouple: Couple**
-nbCouple: unsigned int
-nbMaxCouple: unsigned int
-orientee: bool
+Relation(_titre:QString, _desc:QString, _orientee:bool=true)
+Relation()
+addCouple(_x:QString, _y:QString, _label:QString="default"): void
+deleteCouple(_x:QString, _y:QString): void
+existeCouple(_x:QString, _y:QString): bool
+getCouple( QString _x, y:QString): Couple
+inverseOrientation(): void
+getTitle(): QString
+getDescription(): QString
+getOrientee(): bool
+setTitre(): void
+setDescription(_desc:QString): void
+getIterator(): Iterator
+saveXML(stream:QXmlStreamWriter*): void

Couple
-x: QString
-y: QString
-label: QString
+friend class Relation
+getCx(): QString
+getCy(): QString
+getLabel(): QString
+setLabel(_label:QString): void
+Couple(_x:QString, _y:QString, _label:QString)
+saveXML(stream:QXmlStreamWriter*): void

## **3 | Choix de conception**

### **3.1 Notes**

#### **3.1.1 Notes**

#### **3.1.2 NotesManager**

### **3.2 Versionnage**

### **3.3 Relations**

#### **3.3.1 Couples**

#### **3.3.2 Relations**

#### **3.3.3 RelationsManager**

### **3.4 Sauvegarde et chargement des fichiers**

### **3.5 Interface**

### **3.6 Préférences**

### **3.7 Édition**

## 4 | Conclusion