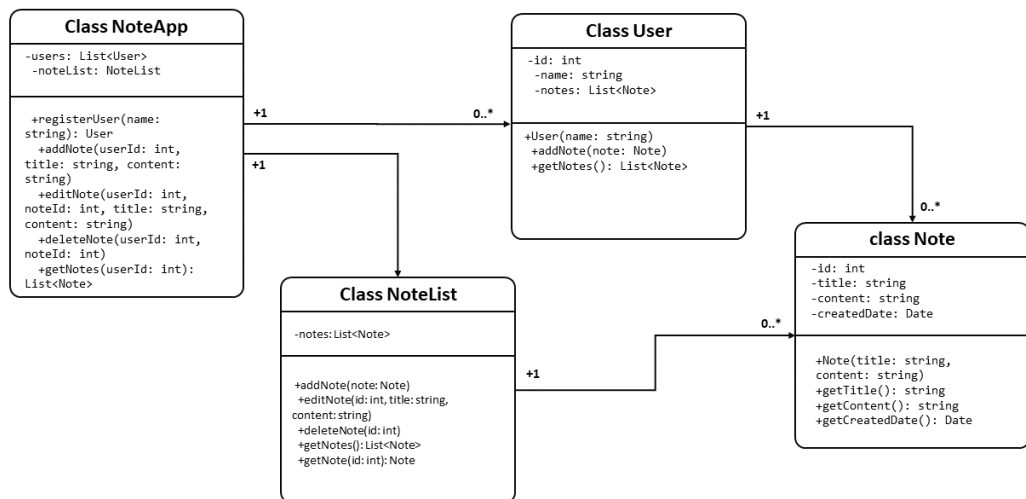


Accurate class diagram for a Notes application



Below, I implemented the "NotesApp" class with python in the UML above...

```

In [ ]: class NoteApp:

    def __init__(self):
        self.users = []
        self.noteList = NoteList()

    def registerUser(self, name):
        user = User(name)
        self.users.append(user)
        user.id = len(self.users)
        return user

    def addNote(self, userId, title, content):
        user = self.getUser(userId)
        note = Note(title, content)
        self.noteList.addNote(note)
        user.addNote(note)

    def editNote(self, userId, noteId, title, content):
        self.noteList.editNote(noteId, title, content)

    def deleteNote(self, userId, noteId):
        self.noteList.deleteNote(noteId)

    def getNotes(self, userId):
        user = self.getUser(userId)
        return user.getNotes()

    def getUser(self, userId):
        return self.users[userId-1]

```

this is the full implementation of all the classes

```
In [ ]: from datetime import date

class Note:

    def __init__(self, title, content):
        self.id = None
        self.title = title
        self.content = content
        self.createdDate = date.today()

    def getTitle(self):
        return self.title

    def getContent(self):
        return self.content

    def getCreatedDate(self):
        return self.createdDate

class NoteList:

    def __init__(self):
        self.notes = []

    def addNote(self, note):
        self.notes.append(note)
        note.id = len(self.notes)

    def editNote(self, id, title, content):
        note = self.getNote(id)
        note.title = title
        note.content = content

    def deleteNote(self, id):
        self.notes.pop(id-1)

    def getNotes(self):
        return self.notes

    def getNote(self, id):
        return self.notes[id-1]

class User:

    def __init__(self, name):
        self.id = None
        self.name = name
        self.notes = []

    def addNote(self, note):
        self.notes.append(note)

    def getNotes(self):
        return self.notes

class NoteApp:
```

```
def __init__(self):
    self.users = []
    self.noteList = NoteList()

def registerUser(self, name):
    user = User(name)
    self.users.append(user)
    user.id = len(self.users)
    return user

def addNote(self, userId, title, content):
    user = self.getUser(userId)
    note = Note(title, content)
    self.noteList.addNote(note)
    user.addNote(note)

def editNote(self, userId, noteId, title, content):
    self.noteList.editNote(noteId, title, content)

def deleteNote(self, userId, noteId):
    self.noteList.deleteNote(noteId)

def getNotes(self, userId):
    user = self.getUser(userId)
    return user.getNotes()

def getUser(self, userId):
    return self.users[userId-1]
```