

```
<xs:complexType name="CategoryType">
```

```
<xs:sequence>
```

```
<xs:element name="description" type="xs:string" />
```

```
<xs:element name="category" type="CategoryType"  
minOccurs="0" maxOccurs="unbounded"/>
```

```
<xs:element name="books">
```

```
<xs:complexType>
```

```
<xs:sequence>
```

```
<xs:element name="Book" type="BookType"  
minOccurs="0" maxOccurs="unbounded"/>
```

```
</xs:sequence>
```

```
</xs:complexType>
```

```
</xs:element>
```

UML and OCL homework

Martin Nečaský

Dept. of Software Engineering

Faculty of Mathematics and Physics

Charles University in Prague



Exercise 1

- Create a conceptual UML class diagram for the movie domain
 - movies
 - directors, writers
 - cast (actors and their characters)
 - scenes and filming locations
- At least 5 classes and 10 properties

Exercise 2

- ❑ Write at least 5 integrity constraints for your UML class diagram in OCL
- ❑ At least 1 invariant
- ❑ At least 1 pre-condition
- ❑ At least 1 post-condition
- ❑ At least 1 default value definition
- ❑ At least once used select or reject
- ❑ At least once used forAll or exists
- ❑ At least once used size

Deadline

- no deadline
- submit at least 3 days before you need points for “zápočet” or exam