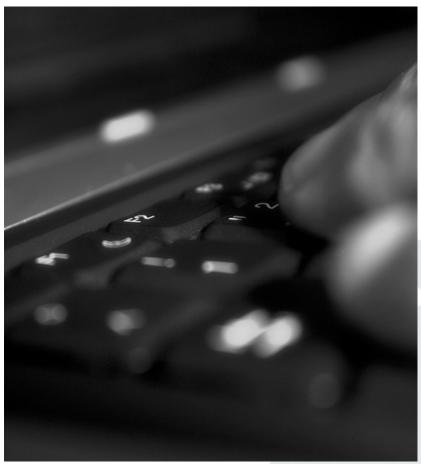
## mobile business

#### Chair of Mobile Business & Multilateral Security

Mentorium 5 Business Informatics 2 (PWIN)

Markup Languages & Unified Modeling Language

Peter Hamm, M.Sc. www.m-chair.de



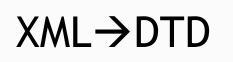
Jenser (Flickr.com)





- XML and DTD
- Unified Modeling Languages



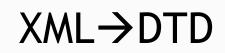


1.1 Create a DTD based on the following XML document. Note that the <Location> element can appear 1 or more times.

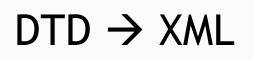
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mobile business <?xml version="1.0"?> <Locations> <Location> <Name>DASEIN</Name> <Rating>Good</Rating> </Location> <Location> <Name>Sturm und Drang</Name> <Rating>Good</Rating> </Location> </Locations>





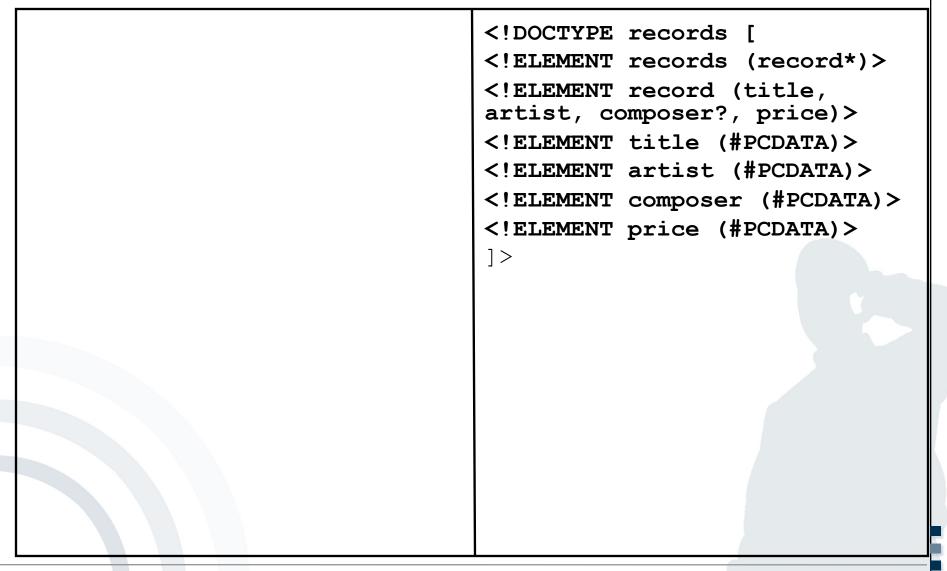


1.2 Create an exemplary XML document based on the following DTD file. The <records> element must not be empty.

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1.3 Create a DTD based on the following XML document.Note that the <email> element is mandatory and<student> should appear at least 1 time.

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```
<?xml version="1.0"?>
<lecture>
   <student>
      <name>Max Muster</name>
      <subject>WiWi</subject>
      <semester>4</semester>
      <email>max@abc.de</email>
      <email>max@xyz.de</email>
      <fax>123456789</fax>
   </student>
   <student>
      <name>Erika Muster</name>
      <subject>WiWI</subject>
      <semester>4</semester>
      <email>em@mail.de</email>
   </student>
</lecture>
```

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## $XML \rightarrow DTD$

```
8
```

# )





- XML and DTD
- Unified Modeling Languages



Use Case Diagram

3.1 Create a use case diagram for a password manager app:

A user can either view stored passwords or create a new password. Both use cases require an authentication. The app supports both user authentication by password and authentication by fingerprint. To create a new password, the user has to use an integrated password generator. Furthermore, he has to enter a description for his new password.



3.2 a) You are one of the programmers of the MyPlace Service. Assume your manager wants you to model the login process by using the appropriate UML diagram.



3.2 b) Additionally, your manager plans to integrate the Facebook login functionality into the myPlace Service. Model the corresponding extended login process by using the appropriate UML diagram.