

Notes export
from an Ebook
Sony PRS-T1

Tutor: Julien De
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Grégory Putz,
Ahma Bekele,
Mathieu Bivert

Notes export from an Ebook Sony PRS-T1

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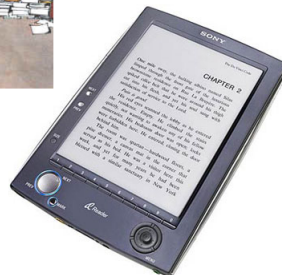
To conclude

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■ Sharing notes ;

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- Sharing notes ;
- No standardized note taking format.

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To conclude

- Sharing notes ;
- No standardized note taking format.
- Notes stored on the ebook :
 - half in SQLite ;
 - half in XML (SVG).

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To conclude

- Sharing notes ;
 - No standardized note taking format.
 - Notes stored on the ebook :
 - half in SQLite ;
 - half in XML (SVG).
- In a nearly comprehensible format.

Specifications : client requests

■ GNU/Linux,

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Specifications : client requests

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- GNU/Linux, Sony software is closed source, windows only (although it may run on wine), and not supporting cut2col (used by the client);

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To conclude

- GNU/Linux, Sony software is closed source, windows only (although it may run on wine), and not supporting cut2col (used by the client);
- main task : export PDF with notes ;

Specifications : client requests

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To conclude

- GNU/Linux, Sony software is closed source, windows only (although it may run on wine), and not supporting cut2col (used by the client);
- main task : export PDF with notes ; others : import PDF, manage Epub, etc.

Specifications : existing work

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Calibre : software to import/export ebook to a reader
→ create a plugin for calibre in Python,

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Calibre : software to import/export ebook to a reader
→ create a plugin for calibre in Python,
while trying software notes format (xournal, okular),
found PDF has annotations

Specifications : existing work

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Calibre : software to import/export ebook to a reader
→ create a plugin for calibre in Python,
while trying software notes format (xournal, okular),
found PDF has annotations
some Java APIs found to manage PDF.

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To conclude

- search documentation & information about the subject

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- search documentation & information about the subject
- separation in 3 parts :

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To conclude

- search documentation & information about the subject
- separation in 3 parts :
 - data recovery and treatment
 - exportation of annotation
 - user interface

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To conclude

- search documentation & information about the subject
- separation in 3 parts :
 - data recovery and treatment
 - exportation of annotation
 - user interface
- Creation of a Gantt diagramm

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■ database :

- study of database architecture
- extraction of necessary information
- permanent communication to target the needs

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To conclude

- database :
 - study of database architecture
 - extraction of necessary information
 - permanent communication to target the needs
- exportation :
 - study of storage format of the annotations
 - parsing of the XML files
 - insert annotations in PDF file

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To conclude

- database :
 - study of database architecture
 - extraction of necessary information
 - permanent communication to target the needs
- exportation :
 - study of storage format of the annotations
 - parsing of the XML files
 - insert annotations in PDF file
- user interface :
 - MVC pattern
 - graphical interface
 - console interface

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To conclude

- in Java (portability) and ease of developpment (pre-existing librairies, etc.) ;

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To conclude

- in Java (portability) and ease of developpment (pre-existing librairies, etc.);
- with iText for PDF manipulation (free, open);

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To conclude

- in Java (portability) and ease of developpment (pre-existing librairies, etc.);
- with iText for PDF manipulation (free, open);
- console and graphical (SWT, portability) interfaces;

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- problem : no documentation
- solution : reverse engeneering on the device

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To conclude

- problem : no documentation
- solution : reverse engeneering on the device
- problem : lack of time
- solution : focus on the the export

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To conclude

- problem : no documentation
- solution : reverse engeneering on the device
- problem : lack of time
- solution : focus on the the export
- problem : the position of the notes on the page

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■ solution :

Puis, il ne reste plus qu'à créer une application cliente (qu'elle que soit sa forme, windows, web, ou tout autre composant) qui pourra consommer le service WCF.

WCF repose sur trois éléments :

- Une Adresse : adresse à laquelle le client doit se connecter pour utiliser le service.
- Un Binding : protocole à utiliser par le client pour communiquer avec le service.
- Un Contrat : infos échangées entre le serveur et le client afin que ce dernier sache comment utiliser le service.

Le nom d'un service WCF repose principalement sur 2 espaces de nom du namespace .NET :

- System.ServiceModel
- System.Runtime.Serialization

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- System.ServiceModel
- System.Runtime.Serialization

Contributeurs par ordre alphabétique : Jean-Yves Tigli

Diagram illustrating the WCF architecture layers (from bottom to top):

- Point d'accès
- Transport
- Interface
- Message
- Entité

Labels on the left side of the diagram:

- Contrat (points to Interface and Message)
- Binding (points to Transport)
- Adresse (points to Point d'accès)

Handwritten notes in the image:

- note 1: que soit sa forme, Windows, Web, ou tout autre composant
- note 2: Binding : protocole à utiliser..

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As planned, we succeeded in :

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As planned, we succeeded in :

- exporting notes from Ebook to PC

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As planned, we succeeded in :

- exporting notes from Ebook to PC
- making a portable application

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To conclude

As planned, we succeeded in :

- exporting notes from Ebook to PC
- making a portable application
- offering a friendly user interface

Possible extensions :

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As planned, we succeeded in :

- exporting notes from Ebook to PC
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Possible extensions :

- import notes from PC to Ebook

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To conclude

As planned, we succeeded in :

- exporting notes from Ebook to PC
- making a portable application
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Possible extensions :

- import notes from PC to Ebook
- manage others formats than PDF

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To conclude

As planned, we succeeded in :

- exporting notes from Ebook to PC
- making a portable application
- offering a friendly user interface

Possible extensions :

- import notes from PC to Ebook
- manage others formats than PDF
- put keyboard notes in the right place in the text

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- Technical point of view :
 - implementation of different skills
 - internal functioning of an Ebook
 - use of database
 - use of some Java libraries
 - data translation between different formats

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To conclude

- Technical point of view :
 - implementation of different skills
 - internal functioning of an Ebook
 - use of database
 - use of some Java libraries
 - data translation between different formats
- Personal point of view :
 - improve the skills in team working
 - realize a soft that could be used in the future
 - give a presentation in English

Demonstration !

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