POSEIDON

Workshop on Privacy Challenges in Public and Private Organizations
IFIP Summer School on Privacy and Identity Management
August 21, 2019 in Brugg/Windisch, Switzerland

THE POSEID-ON DASHBOARD
For Privacy and Digital Protection

Presenter:
Paulo Silva (University of Coimbra)

2019-08-21
BRUGG, SWITZERLAND

Funded by Horizon 2020
Framework Programme of the European Union
POSEID-ON PROJECT

Protection and control of Secured Information by means of a privacy enhanced Dashboard

- innovative intrinsically scalable platform
- integrated and comprehensive solution aimed to safeguard the rights of data subjects
- exploiting the cutting-edge technologies of Smart Contracts and Blockchain
- support organisations in data management and processing
- ensuring GDPR compliance
Only a Web Browser is needed

• Targeting the most common application platform in the world
• Reaching the largest group of users
• Open standards

Initially, the largest subset of browsers is supported.
ACCESSIBLE AND RESPONSIVE

Every European citizen counts

• Different languages
• Different devices
• Different levels of technology-literacy
• Different disabilities
PERFORMANT AND SCALABLE

Increasing user satisfaction

• Fast responses for a smooth user experience
• Scale and performance is often linked
• Scalable from a small number of users to millions
Keeping user data safe

- Handling vast amounts of highly sensitive data
- Security in-depth, KISS approach
- Leading web security standards and best practices
Important technology infrastructure

- Easy to deploy
- Easy to support
- Easy to build upon

- Clean code
- Modular
- Documentation. Documentation everywhere.
APPROACH
TACKLING CHALLENGES
THE USER COMES FIRST

NO EXCEPTIONS
WHO IS THE USER?
WHO IS THE USER?

The most important question
Every European citizen, right?
WHO IS THE USER?

We are not the average user
INTRODUCING: PIERRE

Pierre Lacroix is our user

• Pierre is not real
• Pierre has a complete backstory
• 59-year-old Electrician from Paris, France
• Enjoys the occasional barbecue with his neighbours
TOP-DOWN APPROACH

Backwards: from user interface, to front-end, to back-end
TOP-DOWN APPROACH

Many benefits

• Collect user feedback at an extremely early stage
  – Feedback loop is very short
• Uncovering previously unknown requirements
• Shapes the expectations early on
  – Avoids surprises later on
PROGRESS

Integration

Front-end

Back-end
Summary

- **62** Data Requests
- **420** Data Processors
- **62** Permissions Granted

Exchange Reports

- Personal information update: NEW 10:37 | 07.04.2019
- Credit card renewal: NEW 14:23 | 07.04.2019
- Address update: 11:45 | 06.04.2019
- Personal code confirmation request: 12:03 | 08.04.2019
- Credit card renewal: 16:48 | 06.04.2019
- Credit card renewal notification: 09:22 | 05.04.2019
ING Bank

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Sed nisl nisl, sollicitudin non, pharetra in, dignissim ac, pedes. Aliquam ac tortor in felis convallis dolor.

Sed pellentesque nisi ut turpis mollis tristique, vel mauris, malesuada a augue ut, sodales porta tellus. Aliquam auctor feugiat nunc et felis egestas.

Nulla enim eros, tringilla eu tempor sed, convallis nec. Ipsum nam suscipit rlaus ante elementum pulvinar.

Update My details
Data Processors

- **ING Bank**
  - Last interaction: 10:37 | 07.04.2019
  - Documents: 2
  - Data Types: 3
  - Storage: 3

- **Ministère de l'action et des comptes...**
  - Last interaction: 14:25 | 11.03.2019
  - Documents: 1
  - Data Types: 8
  - Storage: 8

- **Service-Public.fr**
  - Last interaction: 14:11 | 11.03.2019
  - Documents: 4
  - Data Types: 12
  - Storage: 40

- **LCL**
  - Last interaction: 10:37 | 07.04.2019
  - Documents: 0
  - Data Types: 7
  - Storage: 21

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### Data Processors > ING Bank

#### General Info

**ING Bank**  
Last interaction | 10:37 | 07.04.2019

#### Latest Activity

- **Personal information update**  
  10:37 | 07.04.2019
- **Credit card renewal**  
  10:35 | 07.04.2019

#### Personal Data List (13)

<table>
<thead>
<tr>
<th>Info</th>
<th>File</th>
<th>Source</th>
<th>Expire</th>
<th>Shared</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name and Surname</td>
<td>TXT</td>
<td>Service-Public.fr</td>
<td>11/05/2019</td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td>TXT</td>
<td>Personal input</td>
<td>02/23/2019</td>
<td></td>
</tr>
<tr>
<td>Personal Code</td>
<td>TXT</td>
<td>Service-Public.fr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number</td>
<td>TXT</td>
<td>Personal input</td>
<td>06/11/2019</td>
<td></td>
</tr>
<tr>
<td>Pasport copy</td>
<td>PNG</td>
<td></td>
<td>06/11/2019</td>
<td></td>
</tr>
<tr>
<td>Agreement 11.02</td>
<td>PDF</td>
<td></td>
<td>06/11/2019</td>
<td></td>
</tr>
</tbody>
</table>
## Data Processors > ING Bank

### General Info

**ING Bank**

Last interaction | 10:37 | 07.04.2019

- **Request for new data**

- **Update My details**

### Latest Activity

**Personal information update**

10:37 | 07.04.2019

**Credit card renewal**

10:35 | 07.04.2019

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<tr>
<td><img src="#" alt="Financial Information" /></td>
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<td><img src="#" alt="Financial Information" /></td>
<td><img src="#" alt="Financial Information" /></td>
<td><img src="#" alt="Financial Information" /></td>
</tr>
</tbody>
</table>

- **Financial Information**
- **ING Bank**
- **Update now**
- 11/05/2019

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### Notes

- Ensure all personal data is kept up-to-date and secure.
- Review any activity updates regularly.
General Data Protection Regulation

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using ‘Content here, content here’, making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for ‘Lorem ipsum’ will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (Injected humour and the like).

Chapter 1

General Provisions

Art 1. Subject-matter and objectives

1. Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry’s standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.

2. Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry’s standard dummy text ever since the 1500s, when an unknown
CONCLUSION

TOP-DOWN APPROACH
The user comes first

ACCESS AND USABILITY
Web browser
Inclusiveness

SECURITY, PRIVACY AND PERFORMANCE
Leading security standards
Privacy-oriented design and development
Maintainability and scalability
THANK YOU

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