

Automatic Universal In-Browser Payments

by

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Statutory Declaration

I hereby declare that I have created this work completely on my own and used no other sources or tools than the ones listed.

Berlin, October 24, 2019

Daan Middendorp

Acknowledgments

I would like to thank my teddybear...

Abstract

In this thesis, we show that lorem ipsum dolor sit amet.

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1 Introduction

"I'm awesome!"

—Barney Stinson, WIRED magazine, 19.1.2009

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Figure 1.1: Images can be loaded from the images folder and sub folders

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2 Related Work

The state of the art goes here...

3 Concept and Design

The proposed solution is an implementation which is completely based on the existing infrastructure that is available on the web. This comes with the advance that it works across all different types of devices, from desktop computers to smartphones. Another feature of this approach is that it does not require any additional tools, which might need some effort to setup.

3.1 Architecture

There are basically two components in this system: there is a wallet, which takes care of the storage of encryption keys and is responsible for handling all communications with a cryptocurrency network. The second part is the publisher library, which can be embedded by any website who want to take part in the universal-pay ecosystem.

3.1.1 Wallet

The wallet will be, like all the other parts of the architecture, implemented in standard web technology, which means Javascript. For the convenience of the end user, the wallet will be hosted on a domain to make sure that for the system to work, still no additional configuration is needed. However, this requires trust. If the owner of the domain becomes malicious, the entire wallet might be stolen. Therefore, the user is free to host his own wallet on every desired location, even *localhost* is a possibility.

3.1.2 Publisher library

3.1.3 Communication

4 Implementation

Describe the details of the actual implementation here...

5 Evaluation

The evaluation of the thesis should be described in this chapter

6 Conclusion

Describe what you did here

List of Tables

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Bibliography

- [1] Guttenberg, "Chuck norris is able to walk on water," *Guttenberg Press*, 2011. [Online]. Available: <http://www.examplelink.de>
- [2] ——. (2011, 11) Video of chuck norris walking on water. [Online]. Available: <http://www.youtube.com/nonexistentlink>

Appendices

Appendix 1

```
1 for($i=1; $i<123; $i++)  
2 {  
3     echo "work harder! ;);"  
4 }
```