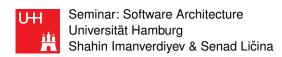
Modelling and conception of software in aspect to security



ABSTRACT

put Abstract here.

1. INTRODUCTION

Modern society and economy increasingly depend on digital systems. As attacks against such systems can have devastating results, it is very important to secure such systems in a proper way. Nowadays the Internet is a heavily used and very important communication medium. An increasing number of devices are connected to the Internet, which is why it is important to transmit and store sensitive data securely.

The correct development of secure software is difficult. There have been numerous successful attacks abusing vulnerabilities of software systems in the past and it is to expect that people will try to abuse such flaws in the future as well.

The traditional approach for security assurance has been "penetrate and patch", where security is assured by attempting to break into a running system and exploiting well-known vulnerabilities. Penetrate and patch happens too late in the development process and vulnerabilities will be available and possibly exploited until they are recognized fixed. This is why it is important to take security aspects into account in an early stage of the system development.

2. REQUIREMENTS

In this section some concepts are explained which are required to understand this paper. First the key concepts of security are discussed. ...

2.1 Security

The CIA Triad is a well-known security model which is based on the three key principles of security: **confidentiality**, **integrity** and **availability**. It is used to identify problem areas in the security of software systems and requires that its principles are preserved for the system resources.

Confidentiality ensures that only authorized users are able to read private or confidential information. Access control mechanisms can be used to gain better confidentiality.

Integrity (in the field of computer security) prevents information from modification or deletion by unauthorized users and ensures that undesired changes can be undone.

Availability refers to the prevention of unauthorized denial of access to information or resources.

These key principles are often described as incomplete and thus extended by further principles like **authenticity**, **accountablility** or **non-repudiation**.

Authenticity is the assurance that information and resources are valid. The validation that all involved parties are truly who they claim to be is important for authenticity.

Accountablility refers to the property that every security crucial action can be traced back to the responsible

Non-repudiation assures that the existence of specific actions can not be denied.

3. BLA

Citation goes like this... [SHRB11] footnotes ¹ are possible aswell. Reference to Section 2. blabla wichtig intentionally left blank.

3.1 Time-of-flight

Look a figure (Figure 1).



Fig. 1. With Caption.

4. CONCLUSION

Typical Conclusion.

5. REFERENCES

[SHRB11] Matthias Straka, Stefan Hauswiesner, Matthias Rüther, Horst Bischof: Skeletal Graph Based Human Pose Estimation in Real-Time. Graz University of Technology, Austria 2011.

November 25, 2014

¹this is a footnote.