Czech Technical University Faculty of Nuclear Sciences and Physical Engineering

Department of Mathematics Branch of Studies: Applied Information Technology



Design of an Information System for Support of Forensic Audit

Bachelor's Degree Project

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Academic Year: 2015

Před svázáním místo téhle stránky vložíte zadání práce s podpisem děkana (bude to jediný oboustranný list ve Vaší práci) !!!!

Declaration	
I declare that this Bachelor Project is all my own work I have used in the bibliography.	and I have cited all sources
In Prague	Edita Pešková



Název práce:

Návrh informačního systému pro podporu forenzního auditu

Autor: Edita Pešková

Obor: Applied Information Technology

Druh práce: Bakalářská práce

Vedoucí práce: Mgr. Karel Macek, Ph.D.

Oddělení ekonometrie, Ústav teorie informace a automatizace

Konzultant: —

Abstrakt: Tato bakalářská práce předkládá návrh systému a naznačuje požadavky, které jsou potřebné aby byl popsán smysl a cíle technik digitálního forenzního vyšetřování, vykonávaných forenzními auditory, účetními a inpektory firem. Pomocí různorodých postupů, nástrojů a technik rozpoznáváme v jakých případech mohou nástroje forenzního auditu poskytnout auditorům potřebné informace k provedení forenzního auditu. Bakalářská práce představuje požadavky, které musí splňovat vlastní informační systém použitelný pro podporu vyšetřování a také poskytuje detailní návrh tohoto systému.

Klíčová slova: Forenzní audit, Vyšetřování, Návrh systému, Databáze, Sběr dat

Title:

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Abstract: This bachelor project proposes a system design and suggests requirements that are needed in order to describe the purpose and goals of the digital forensic investigation techniques carried out by the forensic auditors, accountants and examiners of companies. Using various procedures, tools and techniques we identify where the forensic audit tools and the system can provide the auditors necessary information to carry out forensic audit. This bachelor thesis provides requirements that our own information system usable to support forensic audit must follow and also provides a detailed design of this system.

Key words: Forensic audit, Investigation, System design, Database, Data

collection

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Introduction

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. klicova slova: forenzni audit, unik penez, prosetreni spolecnosti, vyhledavani dukazu, pocitacova podpora, aplikace podporujici forenzni audit, vizualizace procesu vysetrovani, report o vysetrovanem pripadu, metodika forenzniho auditu, navrh informacniho systemu, ...

Forensic audit and its computer support

na zacatek shrnout co vsechno obsahuje tato kapitola. asi tak takhle:

This chapter strives to define and explain the meaning of the term "forensic audit" as well as other therms related to this field. We demonstrate typical roles and outline the process.

1.1 Definition of Forensic audit

co je to forenzni audit Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

v hrubych rysech jak to probiha (to co uz mam sem patri), na zaklade toho, co jsem zjistila FA funguje takto:...

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



Figure 1.1: popis obrazku

use case diagram

komentar k diagramu

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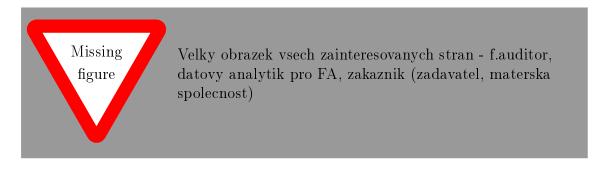


Figure 1.2: popis obrazku

Original methodology for the (computer aided) forensic audit

Jsem si vedoma, ze jsem clovek, ktery to nikdy nedelal (= omezena znalost). Toto je jak to chapu. Toto neni jak by to nekdo mel delat. Toto je seriozni pokus popsat proces forenzniho auditu. PROCESNI DIAGRAMY!!!

vystupem = okomentovany obrazek, ktery dava hlavu a patu

a Use case diagrammem pak kontaktovat praxi

tato kapitola by asi mela obsahovat oduvodnene pozadavky na vlastni metodiku, pouzitelnou ve FA s ohledem na ostatni pristupy a metodiky

DOTAZ:co jsou osatni pristupy a metodiky? DOTAZ:jaky je rozdil mezi metodikou, kterou uz mam vytvorenou v arisu a touto vlastni metodikou?

Design of an information system for support of forensic audit

vsechno o tom systemu jako takovem, ale tak, aby to navazovalo na predchozi...? prostredi webu + silne zabezpeceni, reporty, export, pdf maly informativni obrazek, ktery poskytne uzivateli informaci o tom, co se stalo ! pripojit pripady uziti vcetne zavislosti

jedna se o aplikaci, ktera provazi celym projektem (zadanim) forenzniho auditu. sice existuji i jiny nastroje pro podporu takovychto projektu, ale projekt ma useky a nam jde o integraci porizenych vysledku

Discussion

5.1 Further improvements

- pokryt dalsi administrativni casti (zacatek, konec)
- detailnejsi navrh a implementace
- detailnejsi osetreni rizik
- zamysleni nad sdilenim zkusenosti (duvernost vs. rust expertyzy auditorske spolecnosti)
- vyuziti mimo FA jina administrativa + moduly pro vyuziti policii / soudy

pouzitelne technologie!

Attachment A

Contents of the CD

The text of this bachelor project in pdf

The text of this bachelor project is saved as BP_Peskova.pdf in root folder.