

# Structured Exploratory Testing

## Hands on with Estonian ID Card software

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we don't break software. It is already broken when we get it

## Workshop plan

- 40 min – ET overview, ID Card Software overview
- 80 min – Making up teams & Hands On Testing
- Coffee break
- 40-60 min – Debriefing & Summary

# Exploratory testing

Exploratory testing (ET) is parallel learning, test design and testing

# Exploratory testing

Exploratory Testing is planned activity

# Exploratory testing

Who can do Exploratory Testing?

Everybody?

Yes, everybody.

# Exploratory testing

How to guide Exploratory testing?

- Checklists
- Mindmaps
- ....

# Exploratory Testing

- Checklist here



# Exploratory testing

How to guide Exploratory testing?

- Checklists
- Mindmaps
- ....

# Exploratory Testing

- Mindmap here

# Exploratory testing

How to guide Exploratory testing?

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# Exploratory testing

## How to manage Exploratory Testing?

- SBTM (Session Based Test Management)
- Mindmaps
- ....

# ET – Session Based Test Management

Testing in short sessions (45-90 min)

2 - 4 sessions in a Day

## SBTM – Test session

- Specified mission for each session
- Session report about each session
- Debriefing and summary after each session or at the end of day.

## SBTM – Session report (1/2)

- Session charter
- Testers
- Session start time
- Used Testware (input and output files)
- Test notes (test log)
- Issues

## SBTM – Session report (2/2)

- Session Time usage
  - session setup
  - Test design and execution
  - Problem investigation
- Found Issues
- Found bugs



## SBTM – Session report sample

- Session report sample here

## Estonian ID-Card Software

- Available for people at

<http://www.id.ee/>

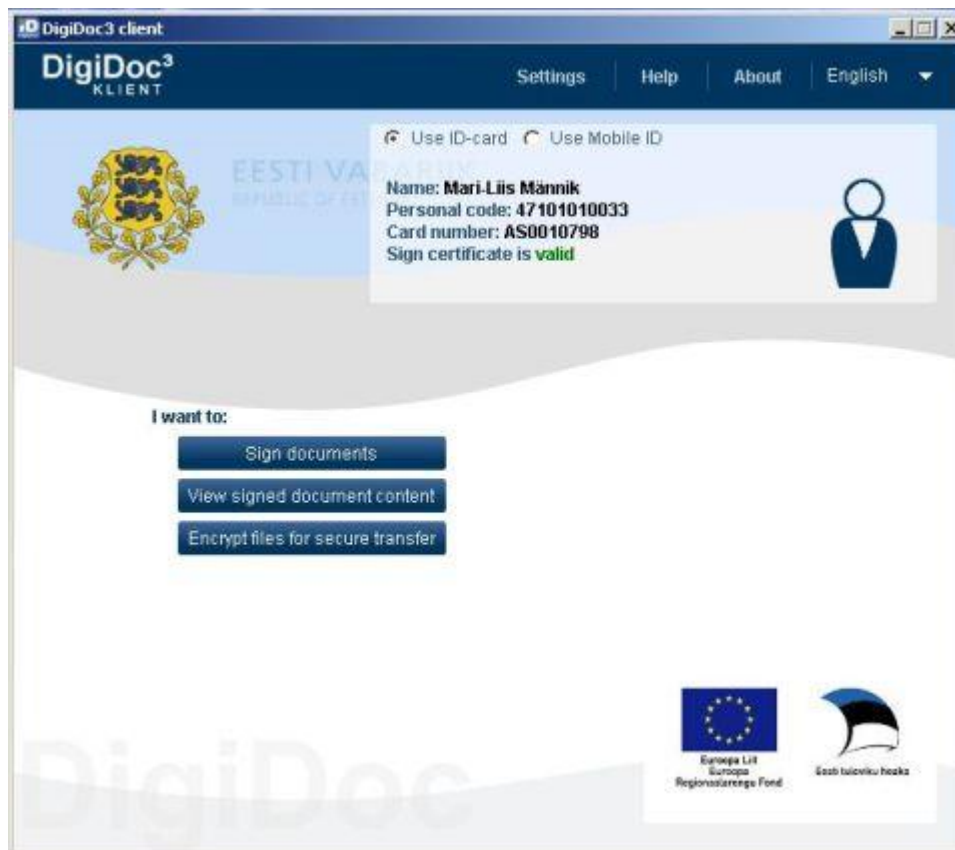
## Estonian ID-Card Software

- Aimed for
- Signing and viewing digital documents (Client)
- Encrypting and decrypting files (Crypto)
- Managing ID-Card (Utility)



# Estonian ID-Card Software

- Signing and viewing signed documents



# Estonian ID-Card Software

- Managing ID Card

The screenshot shows the 'ID-card utility' application window. The title bar reads 'ID-card utility'. The main header is 'ID-kaardi HALDUSVAHEND' with navigation links for 'Diagnostics', 'Settings', 'Help', 'About', 'AS0010778', and 'English'. The interface features the Estonian coat of arms and the text 'EESTI VABARIIK'. A user profile section displays: Name: Mari-Liis Männik, Personal Code: 47101010033, Birth: 01. January 1971, Eesti / Est, Citizenship: EST, and E-mail: mari-liis.mannik.14@eesti.ee. A 'Load picture' button is next to a placeholder box. A status box indicates 'Card in reader AS0010778' and 'This is valid document' with a validity date of 21. August 2016. The left sidebar contains buttons for 'Certificates', '@eesti.ee e-mail', 'Mobiil-ID', and 'PUK code'. The bottom section is divided into 'Authentication certificate' and 'Signature certificate', both showing 'valid and applicable' status and '0 times' usage. 'Change PIN1' and 'View details' buttons are at the bottom left, and 'Change PIN2' and 'View details' are at the bottom right.

# Estonian ID-Card Software

- Encrypting and decrypting documents



# Estonian ID-Card Software

## Digital Signing support for browsers

- Firefox
- Google Chrome
- Internet Explorer

# Hands On

- Download software from:

<https://trac.asaquality.ee/trac/wiki/ID-test>



## Summary

ET – can be managed

SBTM – use focused sessions for managing testing

Plan ET. Each session should have mission that is followed.

Write Session report for each session.

Debriefing after each session (at least once in a day)

# Resources

Basics:

James Bach

<http://www.satisfice.com/>

Michael Bolton

<http://www.developsense.com/>

A lot more from Google:

<https://www.google.com/search?aq=f&sourceid=chrome&ie=UTF-8&q=structured+exploratory+testing>