"ooRexxDoc
A Tool for Generating Javadoc-Like Documentation for ooRexx Programs"

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Overview

- Documentation of programs
- A ski seminar project
  - Alexander Seik
  - oRexxDoc
    - Principles
    - GUI
    - Configuration file
- Demonstration

Documentation of Programs, 1

- „Real“ programmers do not like to document!
- „Rexx programs can be read like English, hence no need to document!“
- Programs are usually written under time pressure
  - No time planned for extensive documentation
  - While programming everything seems to be clear, why waste time to document?
- How about
  - Needing to change Rexx programs years later?
  - Other programmers trying to extend (or fix) your program?

Documentation of Programs, 2

- The Java folks came up with a nice idea
  - Some documentation has to be done anyway, so some documentation is always present
  - Make it easy for „real“ programmers to write documentation
    - Write a tool („javadoc“) that scans the Java source code and creates automatically a documentation
    - Allow Java programmers to easily mark comments that should be added to the documentation
    - The resulting documentation should be usable via a normal web browser
      - Documentation can be placed on a server or locally

A Ski-seminar Project

- Find a student who
  - Knows Java and JavaDoc
  - Knows ooRexx
- Task to tackle
  - Study JavaDoc and come up with a documentation utility that does the same for ooRexx programs
- Found student
  - Alexander Seik
    - Works as a Java programmer
    - Enrolled to both of my „Business Programming“ classes at WU Vienna

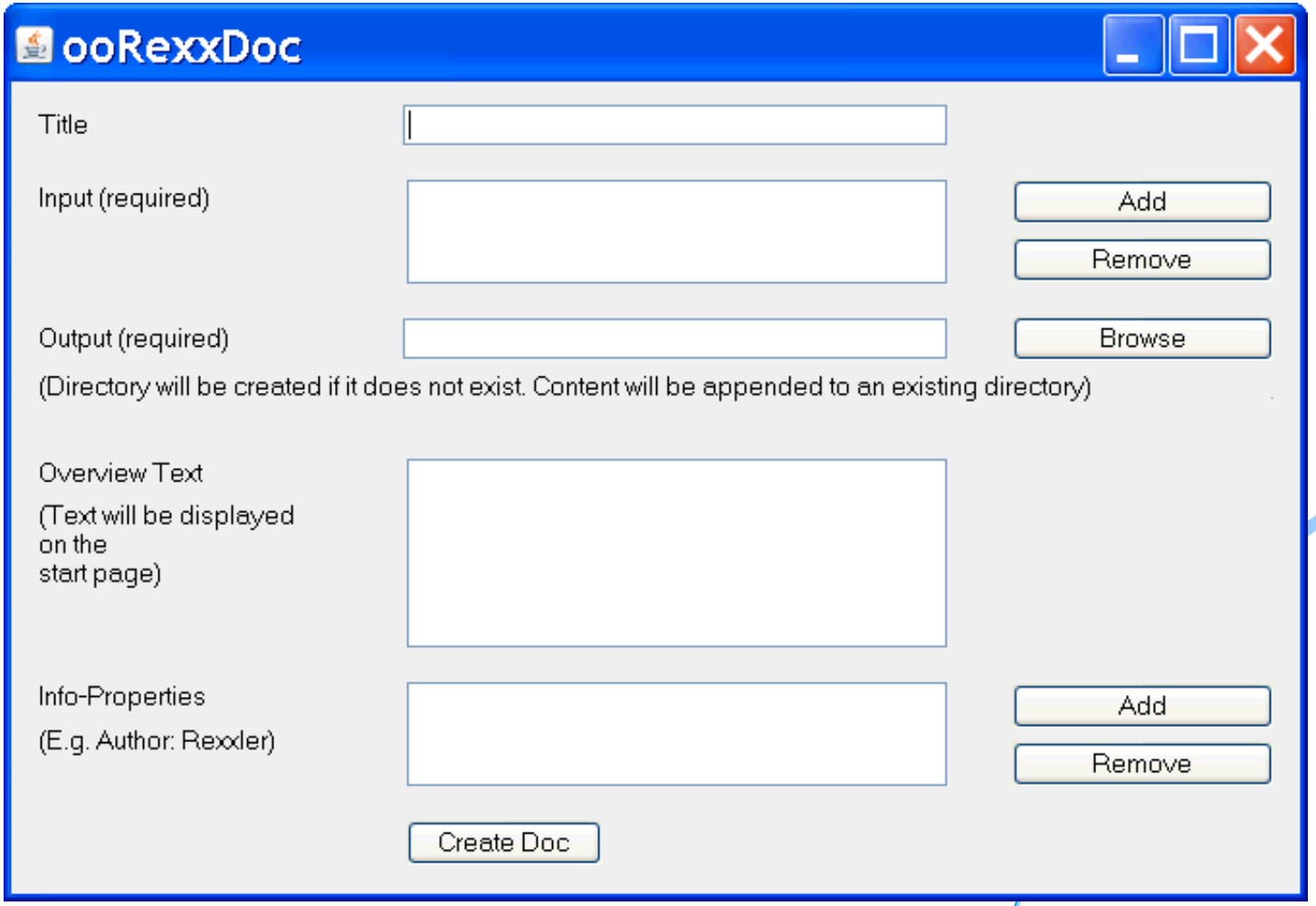
Principles, 1

- Rexx files get analyzed
  - Routines get identified
    - Arguments
    - Return value
  - Directives get identified
    - Subdirectives get extracted
  - Dependencies among Rexx programs („packages“)
  - „ooRexxDoc-comments“, if available
- Create JavaDoc-like HTML-based documentation

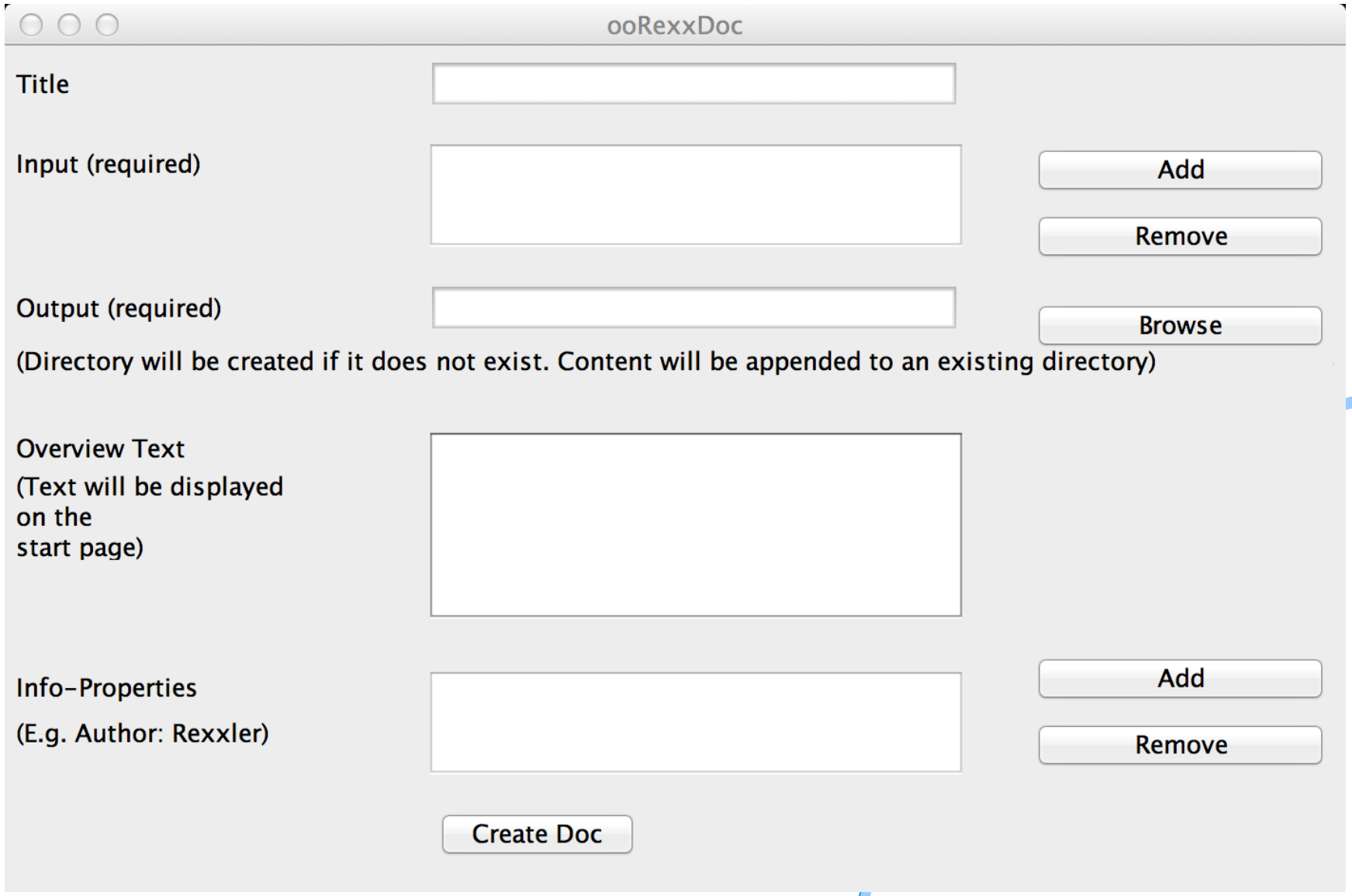
Principles, 2

- Ad „ooRexxDoc-comments“
  - Start with /** and ends with */
  - May contain *annotations* led in with @
    - @author
    - @condition
    - @deprecated
    - @param
    - @return
    - @see
    - @since
    - @version

GUI, 1


ooRexxDoc
Title
Input (required)
Add
Remove
Output (required)
Browse
(Directory will be created if it does not exist. Content will be appended to an existing directory)
Overview Text
(Text will be displayed on the start page)
Info-Properties
(E.g. Author: Rexxler)
Add
Remove
Create Doc

GUI, 2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Configuration File, 1 (XML)

```
<?xml version="1.0" encoding="UTF-8"?>
<oorexxdoc>
        <parser>
                <input></input>
                <output></output>
        </parser>
        <title></title>
        <header>
                <property>
                        <key></key>
                        <value></value>
                </property>
                <property>
                        <key></key>
                        <value></value>
                </property>
        </header>
        <overview>Sample Text</overview>
</oorexxdoc>
```

Demonstration

- Prerequisite
  - Java
  - http://sourceforge.net/projects/oorexxdoc
- Program name: ooRexxDoc.jar
  - „jar“: Java archive, a zip archive
- GUI
  - Double click on jar file
- Command line
  - java -jar ooRexxDoc.jar
    - Uses default configuration file named ooRexxDoc.xml
  - java -jar ooRexxDoc.jar *myConfigurationFile.xml*