

# The Book Assembler

Software Requirements Document

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## 1 INTRODUCTION

This document contains information about the software product gathered from client: client workflow, needs and expectations.

The purpose of this document is to provide a detailed description of the Book Assembler software. It will define the purpose of Book Assembler, outline its users, explain functionality, interface and constraints.

This document will be provided to a client for approval. Once approved the software team will be able to create Software Requirement Specification document.

## 2 OVERAL DESCRIPTION

### 2.1 WORKFLOW

In order to understand the software requirements we need to understand the workflow of book creation activity. The process of book developing includes such phases: concept, design, layout, and printing.

During concept phase the Book Author creates the draft version of the book that consist of a page sketches. Once concept is done each page is saved as a jpeg file and sent to Illustrator.

At the design phase illustrator creates the final illustrations and return them back to author for review and storage. Author place illustrations into the same folder with pages. Author decides when page is finalized and publishes the finalized version (record the approved version to the database).

Once all Illustrations are finalized, they being send to layout artist who creates a Print PDF file for printing. This file is sent to a printing facility to produce the circulation of the book.

The book development process is not linear, each page goes through multiple rounds of revisions, and hence each page file has multiple versions.

The pages that Author sending to Layout Artist does not contain version component in the file name, which allows automatic update of all pages to the final in Layout Software.

### 2.2 NEDS

Client want to get a system that will automate: managing of pages and versions, sending approved pages to layout artist, creation of PDF file containing all pages. System should be able to handle any amount of projects (meaning that one book is a one project).

### 2.3 EXPECTATIONS

The Book Assembler will ask user to create new or select existing project. Within the selected project Assembler scans the folder with pages and record each page to the database relying on page name (which is a page number). The list of all existed versions will be shown in UI as a table. For each page user can also see the published version, sent version and page description.

Validate input data. Book Assembler shell scan the folder with input data (page images) and check if all file names meet the naming convention **<page name>\_<2 digits page version.jpg**

User can select the page from the list and see the page image in UI. The system will display the published version. If nothing was published, the first (01) version will be shown.

User can observe previous or next versions of selected page pressing "+" or "-" buttons.

User can record (publish) the current displayed version as approved by pressing "Publish Current Version" button.

User can sent all or selected pages to a layout directory with "Sent Published versions" button. System will copy image files without the version component in the name to a predefined folder. Those images would be used at layout phase.

### 3 SECIFIC REQUIRMENTS

#### 3.1 SYSTEM REQUIRMNTS

Standalone app, Windows, One Drive

#### 3.2 DATA INTEGRITY REQUIREMENTS

The input data should be correct: files, provided by the artist should have proper names and location. If this is not the case software does not need to be able to handle it. We enforcing the clean data input.

### 4 GLOSSARY

Term	Definition
The Book	Paperback printed book that consist of pages with illustrations
Book Author	Person who come up with the book idea, develop overall structure and detailed description of the content. Book Author draws sketches of all pages and sends them to illustrator.
Illustrator	Person who takes the sketch of each page and produce the final illustration.
Layout Artist	Person who takes all final illustrations and assembles a digital version of the book (PDF) for printing in a printing house.
Page	The basic entity of the book, each page correspond to one page file on disk. Each file could have multiple versions.
Sketch	Page characteristic, rough version of a page drawing that shows what should be on the illustration.
Illustration	Page characteristic, refined sketch, the final version of the page that would be printed.
Publishing of a Page	Recording to the database which version of the page is a final illustration
Preview PDF	The PDF file of the book for users observation produced by Book Assembler
Print PDF	The PDF file of the book for printing produced by Layout Artist
System Analyst	Software Development manager person, \$ 75 per hour rate
Developer	Software Developer, \$ 50 per hour rate