

html2pdf

An auxiliary tool to increase the efficiency of mental work

Agenda

- **html2pdf** description
- **pdf2knt** description
- External alternatives for the **html2pdf**
- Internal alternatives to the design solution
- The main challenges of the **html2pdf** development process
- **html2pdf** development process
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html2pdf description

- A tool for converting web-based manuals and books to local PDF-file for enabling full-text search
- An auxiliary tool for rapid processing of large amounts of information
- An intellectual tool that can significantly reduce the time spent searching for information in web-books and web-manuals

pdf2knt description

- **html2pdf** is an important part of the development of the pdf2knowledgeTree (**pdf2knt**) project as another more powerful intellectual support tool.
- **pdf2knt** is needed to build a tree of knowledge based on one or more pdf-files.
- **pdf2knt** should automatically create a dictionary of available words and then on its basis to help build a hierarchy of concepts, their definitions, explanations, and examples of use.
- After building a knowledge tree, **pdf2knt** should allow you to find all the available information on a particular topic in a matter of seconds based on all the sources involved.

External alternatives for the `html2pdf`

wkgtkprinter

<https://github.com/gnudles/wkgtkprinter>

1

HTML to PDF conversion library (with one simple function) using WebkitGtk (similar to wkhtmltopdf, but without the Qt part).

A simple snippet (glue code) written in C to demonstrate the conversion process of HTML to PDF using Gtk+ and WebkitGtk.

You can use this code to generate invoices from command line or from your software. you can use it from any programming language using libffi.

Very minimalistic code, and easy to tweak, embed and understand. only one function does the conversion in synchronous way.

External alternatives for the **html2pdf**

Doctron

<https://github.com/lampnick/doctron>

Doctron is a Docker-powered, serverless, sample, fast, high quality document convert tool. Supply html convert to pdf(html2pdf), html convert to image(html2image like jpeg,png), which using chrome(Chromium) kernel, add watermarks to pdf, convert pdf to images etc.

Features

- Html convert to pdf/image using chrome kernel to guarantee what you see is what you get.
- Easy deployment.(Using docker,kubernetes.)
- Rich transformation parameters.
- Customize page size from html convert to pdf or image.
- Serverless supported.

External alternatives for the html2pdf

Puppeteer

<https://github.com/puppeteer/puppeteer>

Puppeteer is a Node library which provides a high-level API to control Chrome or Chromium over the [DevTools Protocol](#). Puppeteer runs [headless](#) by default, but can be configured to run full (non-headless) Chrome or Chromium.

- 3 Most things that you can do manually in the browser can be done using Puppeteer! Here are a few examples to get you started:
- Generate screenshots and PDFs of pages.
 - Crawl a SPA (Single-Page Application) and generate pre-rendered content (i.e. "SSR" (Server-Side Rendering)).
 - Automate form submission, UI testing, keyboard input, etc.
 - Create an up-to-date, automated testing environment. Run your tests directly in the latest version of Chrome using the latest JavaScript and browser features.
 - Capture a [timeline trace](#) of your site to help diagnose performance issues.
 - Test Chrome Extensions.

Internal alternatives to the design solution

1	An web-app that performs the necessary search on all documents to which the links from the table of contents points	
	pros	cons
	<p>The easiest way to programmatically implement the solution:</p> <ul style="list-style-type: none">• There is no need to download the all content of the website locally• There is no need to convert it to pdf-format with keeping the style of information formatting	<p>It is an unacceptable long waiting for a search results, due to the need to perform a complete bypass of the entire tree of articles on the site for each search</p>

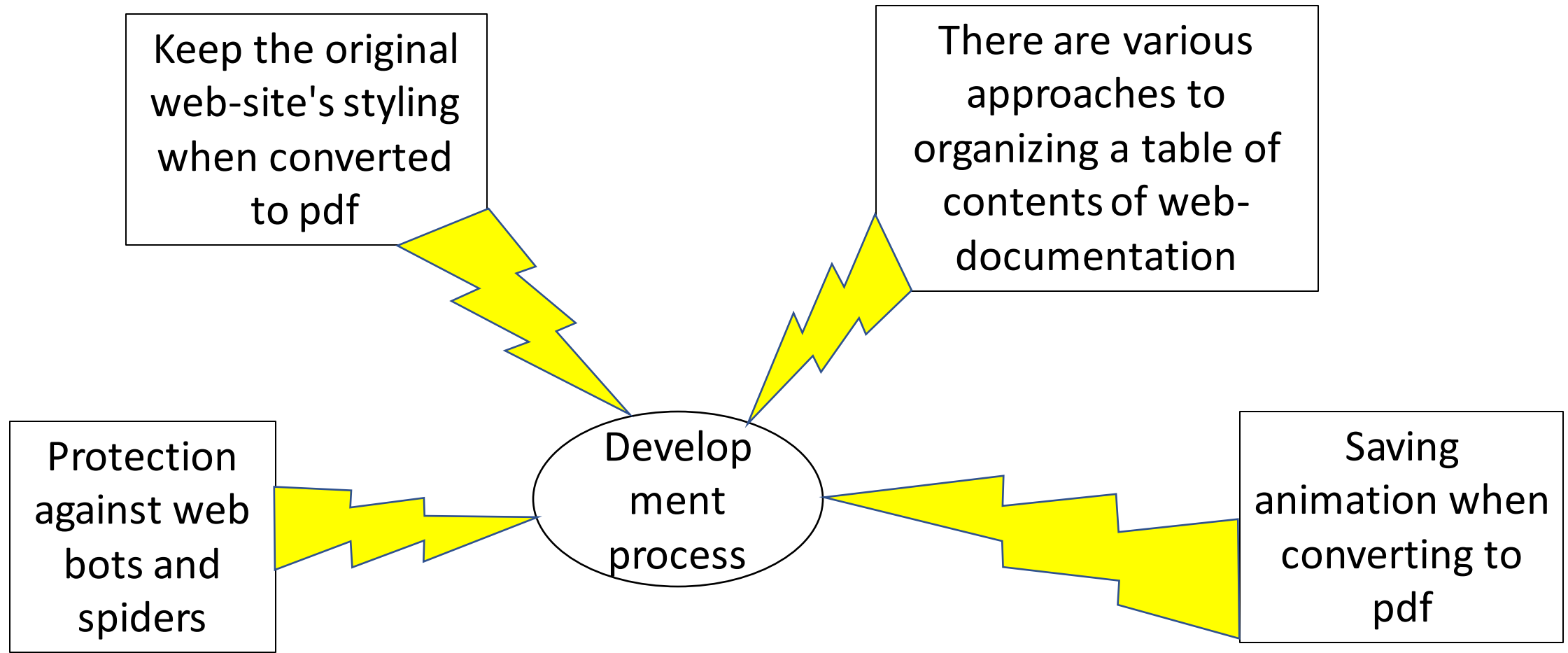
Internal alternatives to the design solution

2	An console application that convert any web-manual or web-book to the one page HTML file	
	pros	cons
	<p>This is an easier way to programmatically implement the solution:</p> <ul style="list-style-type: none">• There is no need to convert web-site content to pdf-format with keeping the style of information formatting	<p>Typically, a web-browser spends significantly more time to process a local HTML file than a PDF-viewer process a PDF file with a similar content.</p>

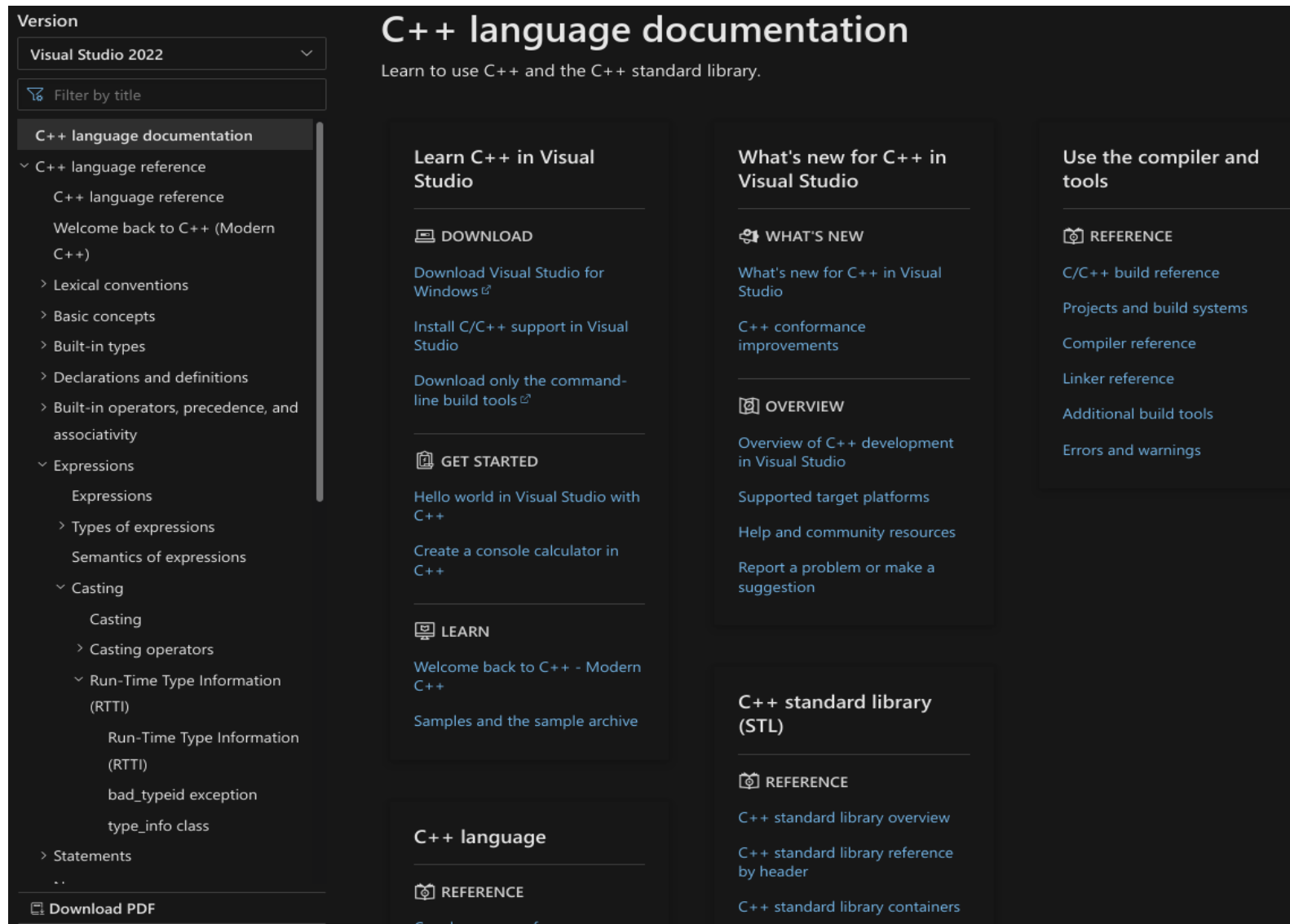
Internal alternatives to the design solution

3	html2pdf	
	pros	cons
	The most convenient and fastest way to process the content of a website is by converting it to a PDF file	<p>This is the most complicated way to programmatically implement the solution:</p> <ul style="list-style-type: none">• Need to download all website content• Need to convert it to pdf-format with keeping the style of information formatting

The main challenges of the **html2pdf** development process



Approaches to organizing a table of contents



Approaches to organizing a table of contents

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HWAddress Sanitizer

GWP-ASan

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Was this helpful?

C++ library support

The NDK supports multiple C++ runtime libraries. This document provides information about these libraries, the tradeoffs involved, and how to use them.

C++ runtime libraries

Table 1. NDK C++ Runtimes and Features.

Name	Features
libc++	Modern C++ support.
system	<code>new</code> and <code>delete</code> . (Deprecated in r18.)
none	No headers, limited C++.

libc++ is available as both a static and shared library.

Warning: Using static runtimes can cause unexpected behavior. See the [static runtimes section](#) for more information.

On this page

[C++ runtime libraries](#)

[libc++](#)

[system](#)

[none](#)

[Selecting a C++ Runtime](#)

Important considerations

[Static runtimes](#)

[Shared runtimes](#)

[One STL per app](#)

[C++ Exceptions](#)

[RTTI](#)

Protection against web bots and spiders

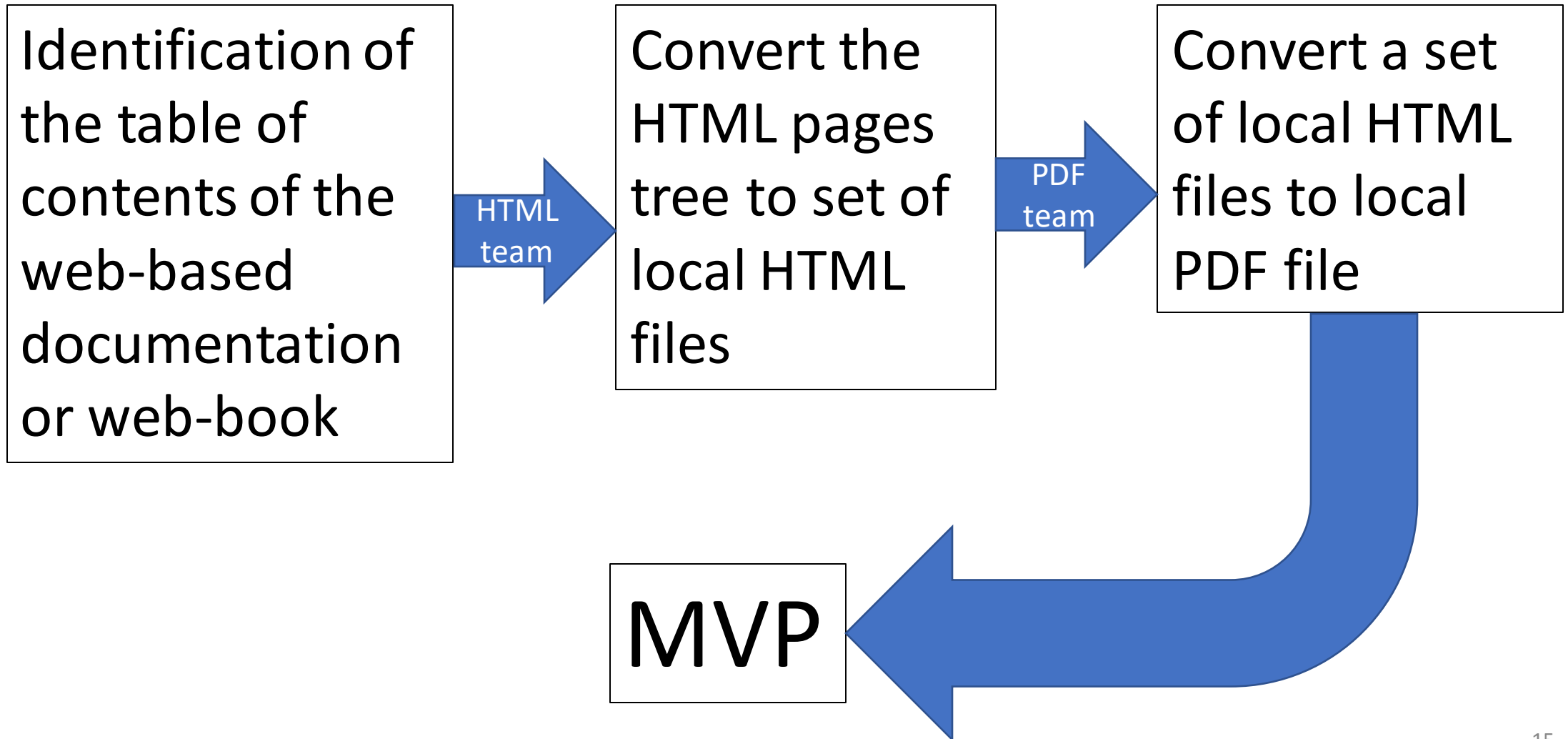
Choosing the type of reCAPTCHA

Choosing the type of reCAPTCHA There are four types of reCAPTCHA to choose from when creating a new site.

reCAPTCHA type

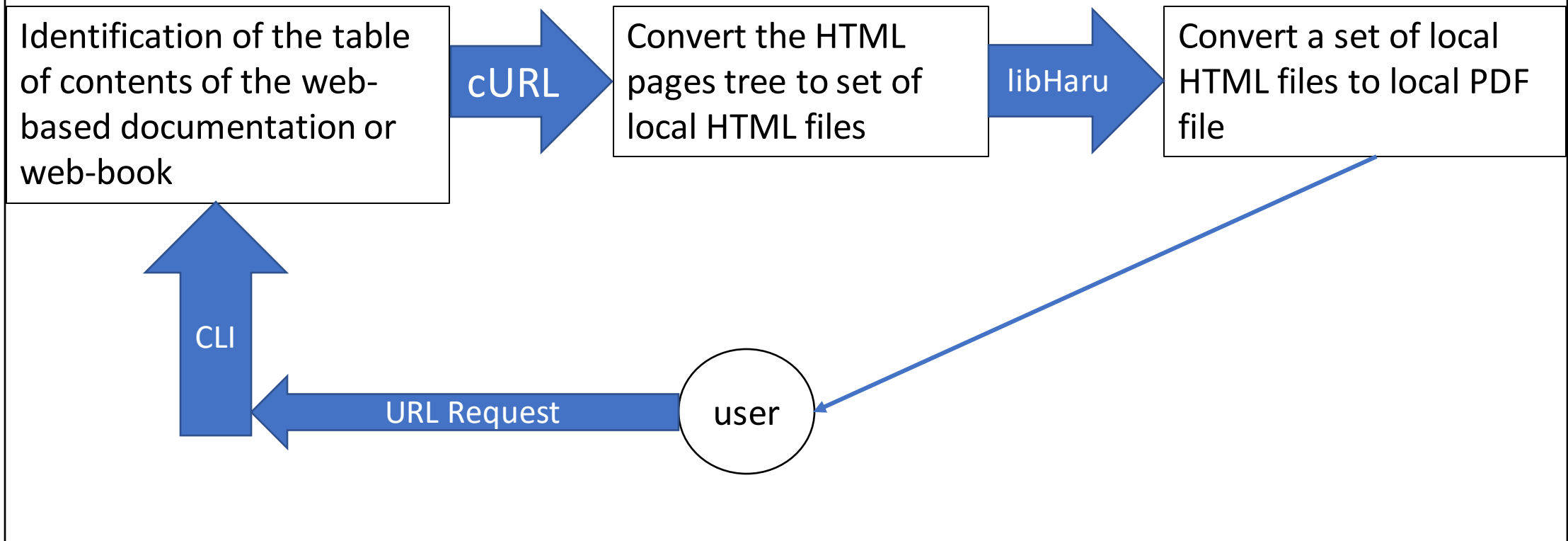
- ☐ reCAPTCHA v3 Verify requests with a score
- ☒ reCAPTCHA v2 Verify requests with a challenge
 - ☒ "I'm not a robot" Checkbox Validate requests with the "I'm not a robot" checkbox
 - ☐ Invisible reCAPTCHA badge Validate requests in the background
 - ☐ reCAPTCHA Android Validate requests in your android app

html2pdf development process

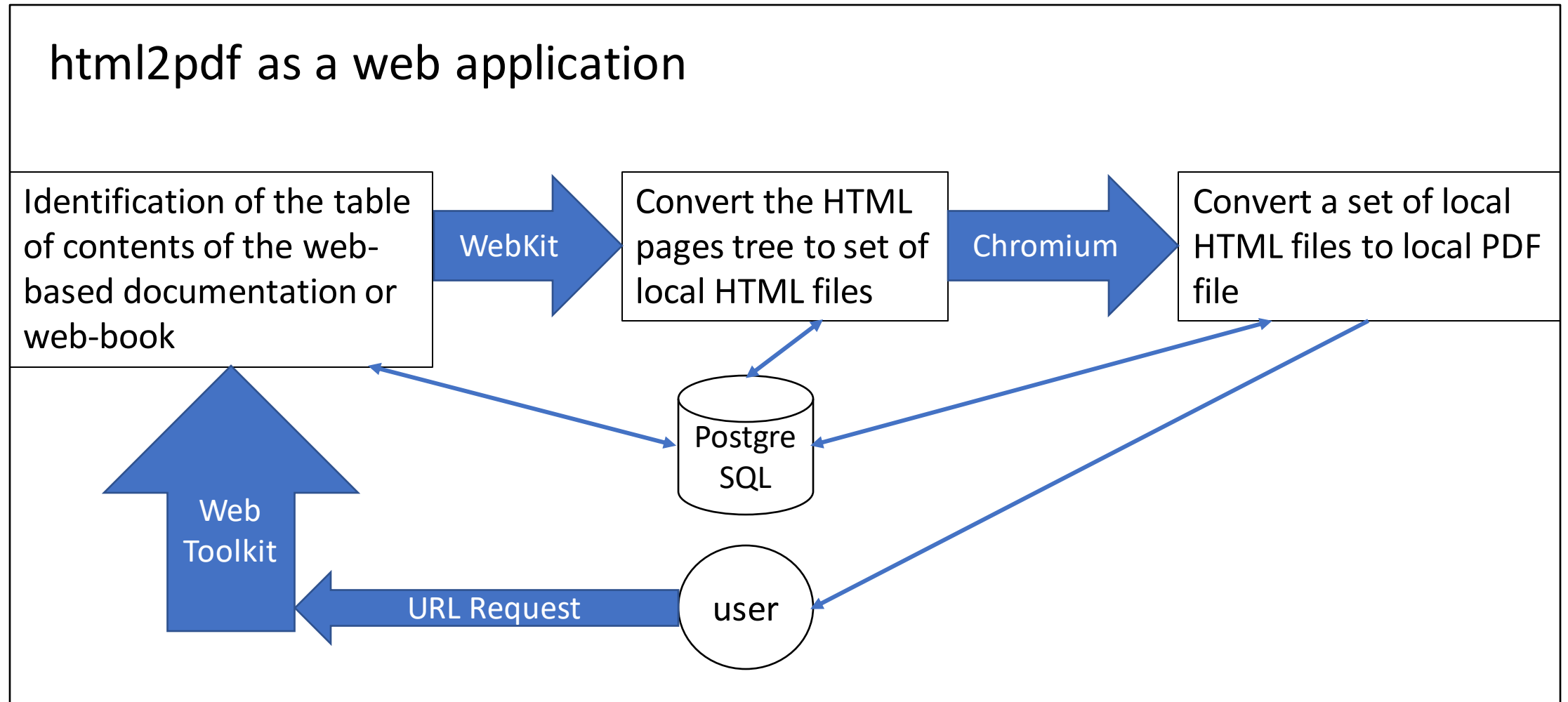


html2pdf technologies set

html2pdf as a console application



html2pdf technologies set



html2pdf Minimum Viable Product

- html2pdf is a console application
- html2pdf should get the table of contents from the <https://www.learncpp.com/> home page and put it into ***learncpp.pdf***, where all positions of the content are links to the relevant pages of the site

html2pdf Minimum Viable Product2

- **html2pdf** is a console application
- **html2pdf** should get the table of contents from the <https://www.learncpp.com/> home page and put it into *learncpp.pdf*.
- **html2pdf** should take turns downloading HTML files from the website according to the links of the table of contents and put them into *learncpp.pdf*, after the table of contents.
- All positions of the table of contents should be links to the relevant pages of the site inside *learncpp.pdf*.

html2pdf Minimum Viable Product3

- **html2pdf** is a console application
- **html2pdf** should get the table of contents from the <https://www.learncpp.com/> home page and put it into ***learncpp.pdf***.
- **html2pdf** should take turns downloading HTML files from the website according to the links of the table of contents and put them into ***learncpp.pdf***, after the table of contents.
- All positions of the table of contents should be links to the relevant pages of the site inside ***learncpp.pdf***.
- **html2pdf** should save design style of the <https://www.learncpp.com/> in resulting ***learncpp.pdf***.

html2pdf Minimum Viable Product4

- **html2pdf** is a console application
- **html2pdf** should get the table of contents from the any web site (without web scraping protection) home page and put it into ***web_domain.pdf***.
- **html2pdf** should take turns downloading HTML files from the website according to the links of the table of contents and put them into ***web_domain.pdf***, after the table of contents.
- All positions of the table of contents should be the links to the relevant pages of the site inside ***web_domain.pdf***.
- **html2pdf** should save the design style of any website in the resulting ***web_domain.pdf***.

html2pdf Minimum Viable Product5

- **html2pdf** is a web application.
- In the interactive mode, **html2pdf** should circumvent any web scraping protection.
- **html2pdf** should get the table of contents from the any web site home page and put it into ***web_domain.pdf***.
- **html2pdf** should take turns downloading HTML files from the website according to the links of the table of contents and put them into ***web_domain.pdf***, after the table of contents.
- All positions of the table of contents should be the links to the relevant pages of the site inside ***web_domain.pdf***.
- **html2pdf** should save the design style of any website in the resulting ***web_domain.pdf***.