



We enable docx-as-code

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## 1 Introduction

### 1.1 References

Referenced documents in creation of this document are listed in the Table 1.

Document Reference	Document Title	Version	Filename
[1]	[[ reference-doc-title ]]		[[ reference-doc-filename ]]
[2]			
[3]			
[4]			
[5]			
[6]			
[7]			
[8]			

Table 1: Document references



## 2 source-docs

### 2.1 docs

#### 2.1.1 examples

##### 2.1.1.1 New Conference

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*Creativity is allowing yourself to make mistakes. Design is knowing which ones to keep. - Scott Adams*

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##### 2.1.1.2 Example

**Note:** This is the demo content for demonstration purpose only. The primary function of this content is to show you what this theme can do. There is a more detailed explanation in the



## Getting Started section.

### 2.1.1.2.1 Callouts

There are two types of callouts available in this theme, **note** and **important**. To add a callout to your documentation simply add the following html code with class important or note. Like in the example bellow.

#### 2.1.1.2.1.1 HTML example

Copy the code and modify these blocks according to your needs.

```
<div class="important">
  <strong>Important:</strong>
  This is an "Important" callout block of text.
  This block indicates a warning or caution.
  Use it for an important message.
</div>

<div class="note">
  <strong>Note:</strong>
  This is a "Note" callout block of text.
  This block signifies a general note.
</div>
```

#### 2.1.1.2.1.2 Live example

**Important:** This is an "Important" callout block of text. This block indicates a warning or caution. Use it for an important message. **Note:** This is an "Note" callout block of text. This block signifies a general note.

### 2.1.1.2.2 Code blocks

**Note:** Code blocks have copy functionality. To copy the code press the grey button located in the right side top corner.

You can create simple code blocks by placing triple backticks `````` before and after the code block. To render a code block more readable, we recommend placing a blank line before and after code blocks.



```
```\n\n  if (condition) {\n    code to run if condition is true\n  } else {\n    run some other code instead\n  }\n```\n\nif (condition) {\n  code to run if condition is true\n} else {\n  run some other code instead\n}
```

#### 2.1.1.2.2.1 Syntax highlighting

You can add a language identifier to enable syntax highlighting in your code block. For example, to syntax highlight **JavaScript** code, specify javascript next to the tick marks before the fenced code block:

```
```javascript\n\n  if (condition) {\n    code to run if condition is true\n  } else {\n    run some other code instead\n  }\n```\n\n
```

The rendered output looks like this:

```
if (condition) {\n  code to run if condition is true\n} else {\n  run some other code instead\n}
```

#### 2.1.1.2.3 Tables

You can build tables with markdown to help you organize information. To add a table, use three or more hyphens (---) to create each column's header, and use pipes (|) to separate each column like in the example below.

```
| Title | Title |\n| -----| ----- |\n| Text | Text |\n| Text | Text |\n
```

Title

Title

Text

Text



Title

Title

Text

Text

**Note:** Creating tables with hyphens and pipes can be time-consuming. To speed up the process, try using the [Markdown Tables Generator](#).

#### 2.1.1.2.4 Start using Libris theme

We've packed this theme with powerful features to help you have awesome documentation for your current or next project.

**Why not start using this theme today?**

[Join Stackbit](#)

#### 2.1.1.3 The function of design is letting design function

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#### 2.1.1.4 Introducing The Libris Theme

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```
switch (type) {
  case 'Object':
    id = _.util.objId(o);
    if (visited[id]) {
      return visited[id];
    }
    clone = {};
    visited[id] = clone;

    for (var key in o) {
      if (o.hasOwnProperty(key)) {
        clone[key] = deepClone(o[key], visited);
      }
    }
    return clone;

  default:
    return o;
}
```

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### 2.1.1.5 Plug-ins

**Note:** This is the demo content for demonstration purpose only. The primary function of this content is to show you what this theme can do. There is a more detailed explanation in the **Getting Started** section.

#### 2.1.1.5.1 Syntax highlighting

You can add a language identifier to enable syntax highlighting in your code block. For example, to highlight the **JavaScript** code, specify javascript next to the tick marks before the fenced code block:

```
```javascript
if (condition) {
  code to run if condition is true
} else {
  run some other code instead
}
```
```

The rendered output looks like this:

```
if (condition) {
  code to run if condition is true
} else {
  run some other code instead
}
```

Or to highlight the **CSS** code, specify css next to the tick marks before the fenced code block:



```
```css
body {
  background: #fff;
  color: #666;
  line-height: 1.66667; }

a {
  color: #d4a259;
  text-decoration: underline;
  -webkit-transition: background .3s ease, color .3s ease;
  transition: background .3s ease, color .3s ease; }

a:hover {
  color: #1d1d1d;
  text-decoration: none; }
```
```

The rendered output looks like this:

```
body {
  background: #fff;
  color: #666;
  line-height: 1.66667; }

a {
  color: #d4a259;
  text-decoration: underline;
  -webkit-transition: background .3s ease, color .3s ease;
  transition: background .3s ease, color .3s ease; }

a:hover {
  color: #1d1d1d;
  text-decoration: none; }
```

#### 2.1.1.6 Tables

You can build tables with markdown to help you organize information. To add a table, use three or more hyphens (---) to create each column's header, and use pipes (|) to separate each column like in the example below.

```
Title	Title
Text	Text
Text	Text
```

Title

Title

Text

Text

Text

Text

#### 2.1.1.7 Starter Theme





**Note:** This is the demo content for demonstration purpose only. The primary function of this content is to show you what this theme can do. There is a more detailed explanation in the **Getting Started** section.

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#### 2.1.1.7.1 Node

This command installs a package, and any packages that it depends on. If the package has a package-lock or shrinkwrap file, the installation of dependencies will be driven by that, with an npm-shrinkwrap.json taking precedence if both files exist. See package-lock.json and npm-shrinkwrap.

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#### 2.1.1.7.2 NPM

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fermentum.

#### 2.1.1.8 Typography

**Note:** This is the demo content for demonstration purpose only. The primary function of this content is to show you what this theme can do. There is a more detailed explanation in the **Getting Started** section.

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##### 2.1.1.8.1 This is an H2

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##### 2.1.1.8.1.1.1 This is an H4

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##### 2.1.1.8.2 Quoting

*"How well we communicate is determined not by how well we say things, but how well we are understood." – Andrew Grove*  
*"Always code as if the guy who ends up maintaining your code will be a violent psychopath who knows where you live" – John Woods*

---

##### 2.1.1.8.3 Unordered Lists

- ✓ Donec non tortor in arcu mollis feugiat
- ✓ Lorem ipsum dolor sit amet, consectetur adipiscing elit
- ✓ Donec id eros eget quam aliquam gravida



- ✓ *Vivamus convallis urna id felis*
- ✓ *Nulla porta tempus sapien*

#### 2.1.1.8.4 Ordered Lists

1. Donec non tortor in arcu mollis feugiat
2. Lorem ipsum dolor sit amet, consectetur adipiscing elit
3. Donec id eros eget quam aliquam gravida
4. Vivamus convallis urna id felis
5. Nulla porta tempus sapien

#### 2.1.1.8.5 Code Blocks

Blocks of code are either fenced by lines with three back-ticks, or are indented with four spaces.

```
<!-- Some example CSS code -->
body {
  color:red;
}

if (condition) {
  code to run if condition is true code to run if condition is true code to run if condition
is true code to run if condition is true
} else {
  run some other code instead
}
```

#### 2.1.1.8.6 Tables

| Header content 1 | Header content 2 |
|------------------|------------------|
| Body content 1   | Body content 2   |

Table 2 Table with thead, tfoot, and tbody

#### 2.1.1.8.7 Callouts

**Important:** This is an "Important" callout block of text. This block indicates a warning or caution. Use it for an important message. **Note:** This is an "Note" callout block of text. This block signifies a general note.

### 2.1.2 getting-started

#### 2.1.2.1 How to create DOCX Template for PuzzlesCloud App

In this section we will explain the workflow on how to import a Git project to our application. The workflow is outlined in the following UML diagram:

1. Register (if not already done) and login to our application
2. Import a Git project
3. Our application will connect to your repo and import it
4. Upload your DOCX corporate template



5. Create a new doc in our application
6. Create manually the structure (ToC) of the new document (if imported simple Markdown based Git project)
7. if Static Site Generator project is used (e.g Jekyll...) our application will autogenerate the structure (ToC)
8. Save your new doc in our application
9. Our application will push to your Git project uploaded DOCX template
10. Our application will push to your Git project created/autogenerated DOCX structure (in txt form)
11. Our application will push to your Git project new updated DOCX and PDF documents

#### **2.1.2.2 How to import a Git project to PuzzlesCloud App?**

In this section we will explain the workflow on how to import a Git project to our application. The workflow is outlined in the following UML diagram:

1. Register (if not already done) and login to our application
2. Import a Git project
3. Our application will connect to your repo and import it
4. Upload your DOCX corporate template or select existing one
5. Create manually the structure (ToC) of the new document (if imported simple Markdown based Git project)
6. if Static Site Generator project is used (e.g Jekyll...) our application will autogenerate the Table of Content (ToC) structure
7. Save your new doc in our application and push to Git repo
8. Our application will push to your Git project uploaded DOCX template
9. Our application will push to your Git project created/autogenerated DOCX ToC structure
10. Our application will push to your Git project new updated DOCX and PDF documents

#### **2.1.3 policies**

##### **2.1.3.1 Privacy Policy**

**Effective:** 24.11.2020

PuzzlesCloud takes your privacy seriously. With this document we want to disclose how information about you is used and shared, and we appreciate the trust that you place in us. Moreover, our Privacy Policy explains what information we collect from you, also how we use that information, and what choices you have with respect to that personal information. Throughout this Privacy Policy, we use the term "Personal Data" to describe information that can be associated with a specific person and could be used to identify that person or a company. References in this Statement to "we," "us" or "our" are references to the PuzzlesCloud entity that is operating the relevant Website, or providing the applicable Services. Statements referring to "you" or "your" are references to the company or individual we are collecting Personal Data about. We do not consider Personal Data to include information that has been made anonymously or aggregated so that it can no longer



be used, whether in combination with other information or otherwise, to identify a specific person. By registering you consent to the collection, use and transfer of your information under the terms of this Policy. PuzzlesCloud respects individual privacy. PuzzlesCloud strives to collect and use Personal Data in a manner consistent with the laws of the countries in which it does business.

#### *2.1.3.1.1 Data Types and Collection Methods*

1. Personal Data - Information we request from you
2. Statistical & Activity Data - Information we collect from you
3. Customer Business Data (The Content) - Information you share with us

#### *2.1.3.1.2 Data Collection Purpose and Data Usage*

We will use your **Personal and Statistical & Activity Data** for a range of different purposes including:

1. To respond to your specific inquiry or request and to provide you with information and access to resources that you have requested from us;
2. To administer, protect, operate and maintain the Website and our systems;
3. To improve the navigation and content of our Website, system administration and security;
4. To compile aggregated statistics about the site usage and to better understand the preferences of our site visitors;
5. To help deliver our Services to our customers and to provide customer service and support;
6. To process and complete business transactions and send related information, including transaction confirmations and invoices;
7. To send information to our customers about their account, technical alerts or updates, and other administrative or service-related communications;
8. To carry out research and development to improve our Services;
9. To carry out other legitimate business purposes, as well as other lawful purposes about which we will notify our users and customers.

We will use your **Customer Business Data** exclusively to provide the Service you have requested.

#### *2.1.3.1.3 Data Transfer and Links to Third Parties*

We do not sell or disclose any of your data to companies, organizations or individuals outside of PuzzlesCloud. We may share only your Personal Data with trusted agents or consultants in order to improve the quality of PuzzlesCloud support service. Customer Business Data will not be exposed to any third parties by any means. PuzzlesCloud website may contain links to other sites that are not owned or controlled by PuzzlesCloud. Please be aware that we, PuzzlesCloud, are not responsible for the privacy practices of such other sites. We encourage you to be aware when you leave our site and to read the privacy statements of each and every website that collects personally identifiable information. This Privacy Policy applies only to the information collected by our website.



#### 2.1.3.1.4 Legal and Other Disclosures

Under certain circumstances, we may be required to disclose your personal information in response to valid requests by public authorities, including to meet national security or law enforcement requirements.

We may disclose your personal information if required to do so by law in order to (for example) respond to a subpoena or request from law enforcement, a court or a government agency, or in the good faith belief that such action is necessary (a) to comply with a legal obligation, (b) to protect or defend our rights, interests or property or that of third parties, (c) to prevent or investigate possible wrongdoing in connection with the Site or our Services, (d) to act in urgent circumstances to protect the personal safety of users of the site, our Services or the public; or (e) to protect against legal liability.

We may share or transfer your information in connection with a prospective or actual sale, merger, transfer or other reorganization of all or parts of our business. Also, we reserve the right to fully use and share any information that is not in personally identifiable form (such as statistics and survey results that do not identify you individually by name).

#### 2.1.3.1.5 Security

We continuously invest our efforts and resources to improve security of PuzzlesCloud and all user data. We follow generally accepted best practice industry standards to protect the Personal Data and Customer Business Data submitted to us, in particular:

1. We encrypt the transmission of that information using secure socket layer technology (SSL);
2. We keep all Customer Business Data encrypted in the database;
3. We keep access to the database to restricted PuzzlesCloud employees;
4. We keep clear separation between frontend and backend services where backend services are fully protected;

For our web systems on which you have a user account, you have access to your information to update and maintain your profile. It is solely your responsibility to maintain the confidentiality of your password. If you believe your password has been compromised, please contact [support@puzzlescloud.com](mailto:support@puzzlescloud.com). If your personally identifiable information changes, or if you no longer desire to receive marketing materials, you may correct, update, delete or deactivate it by emailing . PuzzlesCloud will respond to your request within 24 hours of receiving the request. Your account is active for as long as needed to provide you services and comply with our legal obligations, resolve disputes, and enforce our agreements. Your password is the key to your account. Use unique numbers, letters and special characters, and do not disclose your PuzzlesCloud password to anyone. If you do share your password or your personal information with others, remember that you are responsible for all actions taken in the name of your account. If you lose control of your password, you may lose substantial control over your personal information. It is important for you to protect against unauthorized access to your password and to your computer, so be sure to sign off when finished using a shared computer.



PuzzlesCloud serves as a Data Processor for the clients who use these applications. More specifically, PuzzlesCloud does not own the Customer Business Data that is submitted to our applications. The information that is submitted to our applications will be subject to our clients' privacy policies.

No method of transmission over the Internet, or method of electronic storage, is 100% secure, however. PuzzlesCloud is not responsible for any interception or interruption of any communications through the Internet or for changes to or losses of information. Therefore, while we strive to use commercially acceptable means to protect your personal information, we cannot guarantee its absolute security.

If you have any questions about security on our Website, you can send email us at [support@puzzlescloud.com](mailto:support@puzzlescloud.com).

#### *2.1.3.1.6 Changes to Our Privacy Policy*

We reserve the right to modify this Privacy Policy at any time, so please review it frequently. If we make material changes to this Policy, we will notify you here, or by email, or by means of a notice on our home page so that you are aware of what information we collect, how we use it, and under what circumstances, if any, we disclose it.

#### *2.1.3.1.7 Contact*

All comments, queries and requests relating to our use of your information are welcomed and should be addressed to [support@puzzlescloud.com](mailto:support@puzzlescloud.com).

**Sincerely yours, The PuzzlesCloud Team**

#### **2.1.3.2 Terms and Conditions**

**Effective:** 24.11.2020

Welcome to the PuzzlesCloud website ("the Site", "the Website"). Through the Site, you have access to the Software as a Service ("the Service") offering. Please read these Terms of Service carefully before accessing or using our website. By accessing or using any part of the site, you agree to be bound by these Terms of Service. If you do not agree to all the terms and conditions of this agreement, then you may not access the website or use any services. If these Terms of Service are considered an offer, acceptance is expressly limited to these Terms of Service. Please note that you retain all rights and ownership you have in your content that you make available through the Services. If you do not wish to be bound by these Terms and Conditions then you may not use our Website, however you can contact us to discuss your constraints.

### **1. Reservation of Rights**

The Site and Content provided on or through the Site are the intellectual property and copyrighted works of PuzzlesCloud or a third party provider. All rights, title and interest not



expressly granted with respect to the Site and Content provided on or through the Site are reserved.

#### 1. About PuzzlesCloud

PuzzlesCloud is a trading name of PuzzlesCloud Team operating under the laws of Serbia.

#### 1. Registration for the Service

Our Services requires you to open an account. You must complete the registration process by providing us with current, complete and accurate information as required by the applicable registration form. User who is opening an Account on behalf of some company, must be entitled to represent that company. By opening an PuzzlesCloud Account User commits to us that action does not violate any laws or regulations applicable to him. You will be required to choose a password. Access to and use of password protected or secured areas of the Site are restricted to authorized users only. You agree not to share your password(s), account information, or access to the Site with any other person. You are responsible for maintaining the confidentiality of password(s) and account information, and all activities that occur through the use of your password(s) or account(s) or as a result of your access to the Site. You agree to notify PuzzlesCloud immediately of any use of your password(s) or account(s) that you did not authorize or that is not authorized by these Terms and Conditions.

#### 1. Use of the Service

Subject to your compliance with these terms and the law, you may access and use the Services. PuzzlesCloud remains the sole owner of all right, title, and interest in the Services and Software. We reserve all rights not granted under these terms. Our Service provides storage, we recommend that you backup your generated documents regularly. We may create reasonable technical limits on your content, such as limits on file size, storage space, processing capacity, and other technical limits. Users can communicate with us and submit suggestions, ideas, comments, feedbacks, questions or any other information as long as the content is not illegal, obscene, threatening, invasive of privacy, infringing of intellectual property rights, or otherwise injurious to third parties or objectionable and does not consist of or contain software viruses, political campaigning, commercial solicitation, chain letters, mass mailings, or any other form of "spam".

#### 1. Our Packages

We are offering the packages described under the following link:  
<https://puzzlescloud.com/pricing/>

#### 1. Customer Support Service





We strive to provide excellence in our services, however without special Service Level Agreement contract, customers will be served without any service level guarantees.

The best and the fastest way to open a customer service or technical support ticket through the Application Dashboard page or drop us an email: [support@puzzlescloud.com](mailto:support@puzzlescloud.com).

#### 1. Invoicing and Service Payment

Invoices will be sent out once a month or year depending on plan type. Payment deadline is 10 days after customer has been invoiced.

#### 1. Your Content

Our Service allows you to upload, store and generate content. You retain ownership of any intellectual property rights that you hold in that content. In short, what belongs to you stays yours. Our systems may analyze your content (if you configure this option) in course of providing you relevant application features (such as content search results). We don't use analysis outcome of your content for any other purposes except providing application functionalities. We do not monitor or control what your account users do with your content. You are responsible for determining the limitations that are placed on your content and for applying the appropriate level of access to your content. If you do not choose the access level to apply to your content, the system may default to its most permissive setting. It's your responsibility to let other users know how your content may be shared and adjust the setting related to accessing or sharing of your content. You can find more information about how PuzzlesCloud uses, stores and secures the Content in the privacy policy.

#### 1. Prohibited Actions

The PuzzlesCloud community often consists of users who expect a certain degree of courtesy and professionalism. You must use the Services responsibly. You agree not to access or use the Site in any manner that could damage, disable, overburden, or impair any PuzzlesCloud accounts, computer systems or networks. You agree not to attempt to gain unauthorized access to any parts of the Site or any PuzzlesCloud accounts, computer systems or networks. You agree not to interfere or attempt to interfere with the proper working of the Site or any PuzzlesCloud accounts, computer systems or networks. You agree not to use any robot, spider, scraper or other automated means to access the Site or any PuzzlesCloud accounts, computer systems or networks without PuzzlesCloud express written permission. You must not misuse the Services, Software, or content that we provide to you as part of the Services. For example, you must not:

1. Copy, modify, host, stream, sublicense, or resell the Services, or content;
2. Enable or allow others to use the Service, or content using your account information;
3. Use the content or Software included in the Services to construct any kind of database;
4. Access or attempt to access the Services by any means other than the interface we provided or authorized;



5. Circumvent any access or use restrictions put into place to prevent certain uses of the Services;
6. Share content or engage in behaviour that violates anyone's Intellectual Property Right ("Intellectual Property Rights" means copyright, moral rights, trademark, trade dress, patent, trade secret, unfair competition, right of privacy, right of publicity, and any other proprietary rights);
7. Upload or share any content that is unlawful, harmful, threatening, abusive, tortious, defamatory, libelous, vulgar, lewd, profane, invasive of another's privacy or hateful;
8. Impersonate any person or entity, or falsely state or otherwise misrepresent your affiliation with a person or entity;
9. Attempt to disable, interrupt, negatively impact, impair, or destroy the PuzzlesCloud Services, software, or hardware;
10. Disrupt, interfere with, or inhibit any other user from using the Services (such as stalking, intimidating, or harassing others, inciting others to commit violence, or harming minors in any way),
11. Engage in chain letters, junk mails, pyramid schemes, spamming, or other unsolicited mess;
12. Commercialize any information or software associated with PuzzlesCloud platform;
13. Use any data mining or similar data gathering and extraction methods in connection with the Services; or
14. Violate applicable law.
15. Copyright and Monitoring

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#### 1. Definitions

"We", "us", "our" stands for PuzzlesCloud team.

"PuzzlesCloud Website", "The Website" or "The Site" stands for the website available at <https://puzzlescloud.com>

"The Account" is a company's account that can be opened and maintained through PuzzlesCloud Website.

"User" stands for the person that has rights to access the Account, and that uploads, shares, and generate content on our Website.

"The Content" stands for Business Information (Documents) that Users upload, share and generate on our Website.



"Privacy Policy" is the PuzzlesCloud's policy governing the processing of personal data that is available on our Website, as may be amended from time to time.

"Terms and Conditions", stands for these Terms and Conditions under which an Account can be opened and used, published on the Website and as may be amended from time.

**Sincerely yours, The PuzzlesCloud Team**

#### **2.1.4 use-cases**

##### **2.1.4.1 UC1 Work in GIT and Produce DOCX & PDF**

- ✓ *Do you work in Git?*
- ✓ *Do you like current DOCX editors?*
- ✓ *Do you need to produce high quality DOCX?*

If answers are: **yes, no, yes** respectively, you are at the right place.

In this section we will explain the workflow on how you can work in Git and still produce high quality DOCX and PDF using our solution (very convenient for DevOps and Agile teams). This concept is known as docs-as-code, or we like to call it docx-as-code. The workflow is outlined in the following UML diagram:

1. Register (if not already done) and login to our application
2. Import a Git project where you have Markdown based documentation.
3. Our application will connect to your repo and import it.
4. Upload your DOCX corporate template. For more details how to do it please check [Create docx Template](#).
5. Start a new doc in our application.
6. Create manually the structure (Table of Content) of the new document, based on Markdown docs in your Git repo.
7. Save your new doc in our application and push it to your Git repo.
8. Our App will push to your Git project uploaded DOCX template.
9. Our App will push to your Git project created DOCX structure (Table of Content).
10. Our App will push to your Git project new updated DOCX and PDF documents.
11. **[If Updating the Content]** You can update the content and commit the change to your repo.
12. Your repo through webhook service will notify our App about the change.
13. Our App will generate updated DOCX and PDF.
14. Our App will push to your Git project new updated DOCX and PDF documents.
15. **[If Changing DOCX Template]** You can update the DOCX Template and commit the change to your repo.
16. Your repo through webhook service will notify our App about the new Template.
17. Our App will generate updated DOCX and PDF.
18. Our App will push to your Git project new updated DOCX and PDF documents.



19. **[If Changing Table of Content]** You can update the Table of Content and commit the change to your repo. There are different possibilities: add/remove chapters/ .md docs, change order/heading level
20. Your repo through webhook service will notify our App about the new Table of Content.
21. Our App will generate updated DOCX and PDF.
22. Our App will push to your Git project new updated DOCX and PDF documents.

#### **If using PuzzlesCloud for Updates**

This option is still in development, coming soon.

#### **2.1.4.2 UC2 Make Your Website Docs Available Offline**

- ✓ *Do you use some of the Jamstack Static Site Generators (SSG) - Jekyll, Hugo, Next.js, Gatsby etc?*
- ✓ *Do you think it is cool to make your website content available offline?*

If answers are: **yes, yes** respectively, you are at the right place.

In this section we will explain the workflow on how you can keep using your favorite SSG and still make your website content available offline. The workflow is outlined in the following UML diagram:

1. Register (if not already done) and login to our application
2. Import a Git project where you have Markdown based documentation.
3. Our application will connect to your repo and import it.
4. Upload your DOCX corporate template. For more details how to do it please check [Create DOCX Template](#).
5. Save your new doc in our application and push it to your Git repo.
6. Our App will autogenerate the DOCX structure from the SSG repo
7. Our App will push to your Git project uploaded DOCX template.
8. Our App will push to your Git project created DOCX structure (Table of Content).
9. Our App will push to your Git project new updated DOCX and PDF documents.
10. **[If Using Git for Updates][If Updating the Content]** You can update the content and commit the change to your repo.
11. Your repo through webhook service will notify our App about the change.
12. Our App will autogenerate updated DOCX and PDF.
13. Our App will push to your Git project new updated DOCX and PDF documents.
14. **[If Changing DOCX Template]** You can update the DOCX Template and commit the change to your repo.
15. Your repo through webhook service will notify our App about the new Template.
16. Our App will autogenerate updated DOCX and PDF.
17. Our App will push to your Git project new updated DOCX and PDF documents.
18. **[If Changing Table of Content]** You can update the Content structure and commit the change to your repo. There are different possibilities: add/remove chapters/ .md docs, change order/heading level



19. Your repo through webhook service will notify our App about the new Table of Content.
20. Our App will autogenerate updated DOCX and PDF.
21. Our App will push to your Git project new updated DOCX and PDF documents.

### If using PuzzlesCloud for Updates

This option is still in development, coming soon.

### 2.1.4.3 UC3 Work in our App and Publish Docs in GIT

In this section we will explain the workflow on how you can work in our Webapp and publish docs in Git. The workflow is outlined in the following UML diagram:

## 2.2 Backticks MD file

this is single line of backticks

Tis is text which contains text under backticks

this is backticks this is regular text

```
several text lines under single backticks several text lines under single backticks several text
lines under single backticks several text lines under single backticks several text lines under
single backticks several text lines under single backticks several text lines under single
backticks several text lines under single backticks several text lines under single backticks
several text lines under single backticks several text lines under single backticks several text
lines under single backticks several text lines under single backticks
```

### 2.2.1 Backticks in heading

[illegible]

### 2.2.1.1 idemo deda

## 2.3 qa

### 2.3.1 Markdown1

#### 2.3.1.1 PUZZLES CLOUD MARKDOWN FILE HEADING 1



2.3.1.1.1 Welcome to the puzzles cloud md file HEADING 2

2.3.1.1.1.1 Let's start with stupid jokes HEADING 3

2.3.1.1.1.1.1 **Let me tell you stupid joke on German: HEADING4**

- ✓ "Hey Philipp, wie war denn der Urlaub?"
- ✓ "Gräßlich! Im Hotel hatte ich Zimmernummer hundert. Und vom Türschild ist die Eins abgefallen!"

ÜÜÜÜÜÜ- that was stupid

2.3.1.1.1.1.2 Let's switch to the Czech language HEADING 4

- ✓ "Co rłńóobi traktńótośźr u fśźryśźźjera?"
  - ✓ Warcękocze.
- ąćęłńóśź!!!!

Just kidding, that was Poland language u fool, let's switch to the Czech for real

2.3.1.1.1.1.2.1 Real Czech language HEADING 5

ýžáčďěíňůřšťúů

- ✓ Jak říkáte albínskému muži z Prahy?
- ✓ Prázdný Čech.

2.3.1.2 Longest Serbian word he he HEADING 1

Here you go: АБВГДЂЕЖЗИЈКЛЉМНЊОПРСТУФХЦЧЏШ





#### 2.3.1.2.1 *Serbian literature* HEADING 2

Весела песма

Из школе се враћа Стева  
сав весео путем пева.

Уз пут среће бака Јелу:  
„Ћирилицу знадем целу!"

Кући дође, па са врата:  
„Ћирилицу знадем, тата!"

„Све сад, мајко, читам сам,  
јер од данас и „ш" знам!"

Оком тражи и сестрицу:  
„Сејо, знадем ћирилицу!"

Потом оде до икона,  
па начини три поклона.

Хоће Стева да се јави  
и захвали Светом Сави.

Свети Сава Стеву чује,  
па се скупа с њим радује:

„Српство ми је од сад јаче  
за још једно вредно ђаче!"

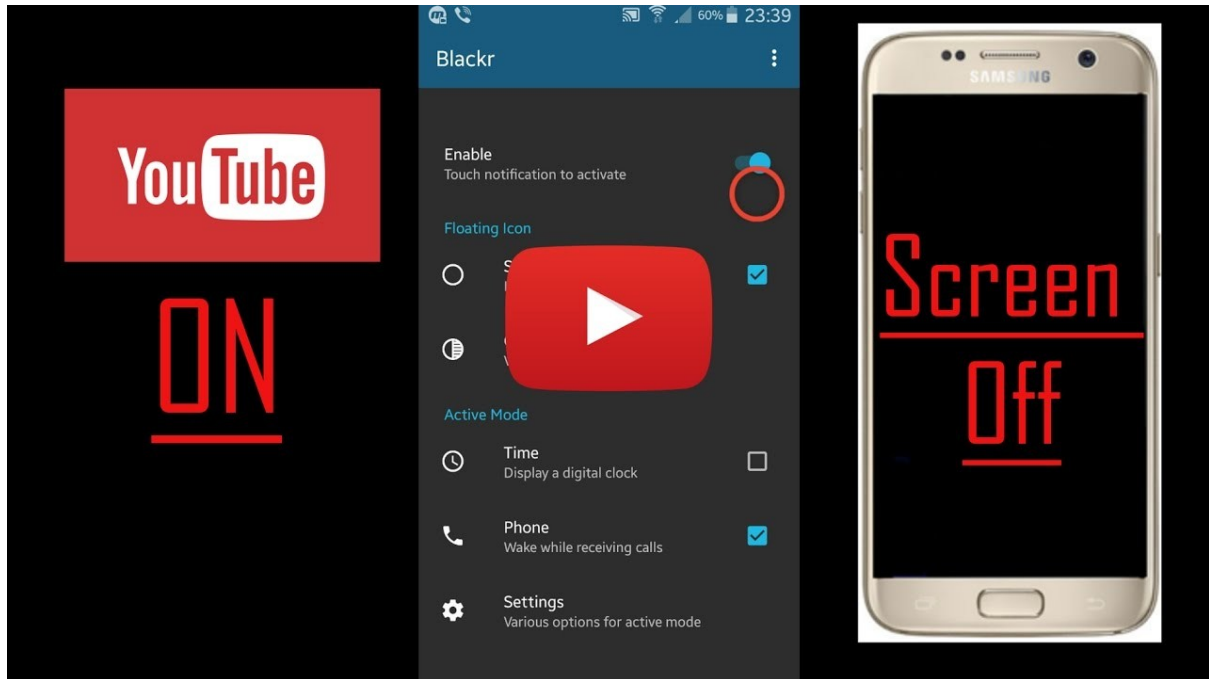
#### 2.3.1.3 *It's enough, lets start with some smart things* HEADING 1

1. PLAY THIS VIDEO AND THANKS ME LATER!



We enable docx-as-code

## HIT THAT PLAY BUTTON



[Yep, it's a picture, fool... lol Here you go, CLICK IT:](#)

### 2.3.2 Markdown2

#### 2.3.2.1 Formatted Text Examples

Below is an illustration of the Format toolbar used to format text:

Here are some examples of the effects different options have on text:

##### 2.3.2.1.1 Font buttons:

As well as the standard Font drop down box showing a list of all the fonts on your system and the **Point** size box that allows you to set the font size, two shortcut buttons have been added that allow you to increase the selected text or group of text objects at the press of a button:

 Will increase the font size by 2 points every time you press the button.

 Will decrease the font size by 2 points every time you press the button.



#### 2.3.2.1.2 Text Format:

The standard text format options are also available for text i.e. bold, italic, underline and outline:

**B** Text

*I* Text

u Text

o Text

*Note: You can combine any of these formats together, as in the last example above which is a combination of the bold, underline and outline formats.*

---

#### 2.3.2.1.3 Text Justification:

- ✓ Text can be aligned to the
  1. left,
  2. right,
  3. centre
- ✓ or one of the three full justifications: Full Justification, Density Justification and Aspect Justification.

Note: The Full justification spreads the words across the page but does not change the size of them. The Density Justification also spreads the words and does not change their size but puts spaces between the characters in a word. The Aspect Justification spreads the words but stretches the words to fill the space as well.

The Density and Aspect methods can provide some visually interesting effects.

[Go back to the top](#)

#### 2.3.2.2 Useful markdown links:

- ✓ [Link 1](#)
  1. **This is link 1**
- ✓ [Link 2](#)
  1. This is link 2
- ✓ [Link 3](#)
  1. This is link 3
    - [Link 4](#)
      - This is link 4 ordered under link 3



2.3.2.2.1 *I just have to store some code here, if you don't mind*

2.3.2.2.1.1 *I'll put it here*

**LoGiC iS rEaL !!!**

```
if(a == 0){  
    a = 0;  
}
```

2.3.2.2.1.2 *And also here*

**It's getting better**

```
if (false == true) {  
    // log some message  
}
```

2.3.2.2.1.3 *You know the process...*

*I'll just assert and finish this...*

```
public void justAssert(){  
    boolean checkTrue = true;  
    Assert.assertTrue(checkTrue);  
}  
  
//let me return true he he  
  
public boolean trueStatement(){  
    return true;  
}
```

## 2.3.3 **Markdown3**

### 2.3.3.1 **Edge Service**

The Edge Service provides the interface between the public REST API and internal AMQP API.

2.3.3.1.1 *TODO*

2.3.3.1.1.1 *TODO version 1.0*

- ✓ [x] *Test environment and credentials*
- ✓ [x] *specify voucher content fields*
- ✓ [x] *specify voucher pricing fields*
- ✓ [x] *specify payment method fields*



#### 2.3.3.1.1.2 TODO version 1.0-next

- ✓ [ ] refactor entities and apply relationships
- ✓ [ ] provide full resource schemas
- ✓ [ ] enforce validation of resource schemas

#### 2.3.3.1.2 Test environment and credentials

TODO

| Username                                           | Password | Description    |
|----------------------------------------------------|----------|----------------|
| <a href="mailto:test@test.org">test@test.org</a>   | test     | just protected |
| <a href="mailto:test@gmail.com">test@gmail.com</a> | test     | just testing   |
| testtest                                           | test     | qa             |

#### 2.3.3.1.3 Edge Service Registry

The Edge Service Registry is responsible to maintain an index of all currently available Edge Services and configure all its known [Load-Balancers] accordingly.

*As of writing no hosting solution has been chosen yet. Therefor the actual API which is used to configure the load-balancers remains unspecified for now.*

---

All Edge Service Instances **must** register themselves on the registry on startup and unregister on shutdown.

#### 2.3.3.1.4 Edge Service Relay

Every Edge Service will be provided with a local relay connecting its instances to the central Message Broker cluster. The message exchange routing of the relay is configured in such a way, that only messages relevant to its connected Edge Services is routed to it from the broker cluster.

*See [Message Relay] for more information.*

---

#### 2.3.3.1.5 Edge Service Client

Each Service that is to be served by the Edge Service is represented by a so-called Edge Service Client. It is responsible to provide the implementation of the public REST API for that given service.

#### 2.3.3.1.6 ReST API

The Edge Service API acts as translation layer between the Services and the Frontend. The actual logic is implemented in separate [Edge Service Client]s for each individual Service consumed by the API or API endpoint provided by the API, respectively.



All public-facing endpoints **must** adhere to the [JSONAPI] specification and be subject to strict [Access Control].

### 2.3.3.1.6.1 Login

#### 2.3.3.1.6.1.1 Login request

| Variables           | Description                                              | Example                                      |
|---------------------|----------------------------------------------------------|----------------------------------------------|
| ICP_SHOP_ID         | see [Test environment and credentials]                   |                                              |
| ICP_SHOP_PASSPHRASE | see [Test environment and credentials]                   |                                              |
| ICP_SHOP_DIGEST     | Derived from \${ICP_SHOP_ID} and \${ICP_SHOP_PASSPHRASE} | MzAwMDAwMTY6dG9wLXNIY3JI<br>dC1wYXNzcGhyYXNI |

```
POST /api/rest/v1/auth/login HTTP/1.1
Authorization: Basic ${ICP_SHOP_DIGEST}
Accept: application/vnd.api+json
```

#### 2.3.3.1.6.1.2 Login response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
```

#### 2.3.3.1.6.1.3 Cookies

| Name    | Value                                                            | Domain                             | Path | Expires  | HttpOnly | Secure |
|---------|------------------------------------------------------------------|------------------------------------|------|----------|----------|--------|
| SESSION | MmQ5ZjkxO<br>GltMTM4My0<br>0M2E0LWI1M<br>DYtYmUwZjY<br>wMzJiZDY5 | master.env.a<br>pi.shop1.roc<br>ks | /    | Seassion | true     | false  |

### 2.3.3.1.6.2 Logout

#### 2.3.3.1.6.2.1 Logout request

| Variables | Description | Example |
|-----------|-------------|---------|
|-----------|-------------|---------|



```
POST /api/rest/v1/auth/logout HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

#### 2.3.3.1.6.2.2 *Logout response*

```
HTTP/1.1 204 No Content
```

#### 2.3.3.1.6.3 *Voucher list*

See *[VoucherWebList]* method in the *[Mimas integration]* documentation for the source of these fields.



#### 2.3.3.1.6.3.1 *Voucher list request*

```
GET /api/rest/v1/vouchers HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

#### 2.3.3.1.6.3.2 *Voucher list response*

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
```





```
{
  "data": [
    {
      "id": "f634f09f-9a06-4297-a326-0d703938b702",
      "type": "voucher",
      "attributes": {
        "code": "LEBALLINNL10",
        "currency": "EUR",
        "ean-code": "8717472242211",
        "encryption-type": 0,
        "kind": 0,
        "name": "Lebara All-in NL 10 EUR",
        "provider-code": "LEBARA",
        "provider-name": "Lebara",
        "short-name": "All-in NL 10",
        "value": 10.0,
        "price-total": 11.99,
        "price-tax": 0.00,
        "price-fee": 1.99,
        "payment-methods": {
          "wirecard-creditcard": {
            "name": "Credit Card",
            "provider-name": "Wirecard",
            "image-url": "https://wirecard.com/logo.png"
          }
          "wirecard-paypal": {
            "name": "PayPal",
            "provider-name": "Wirecard"
          }
        }
      }
    },
    {
      "id": "a3473e20-19b4-44fe-8389-67a511854759",
      "type": "voucher",
      "attributes": {
        "code": "LEBALLINNL15",
        "currency": "EUR",
        "ean-code": "8717472242129",
        "encryption-type": 0,
        "kind": 0,
        "name": "Lebara All-in NL 15 EUR",
        "provider-code": "LEBARA",
        "provider-name": "Lebara",
        "short-name": "All-in NL 15",
        "value": 15.0,
        "price-total": 16.99,
        "price-tax": 0.00,
        "price-fee": 1.99,
        "payment-methods": [
          "wirecard-creditcard": {
            "name": "Credit Card",
            "provider-name": "Wirecard",
            "image-url": "https://wirecard.com/logo.png"
          }
          "wirecard-paypal": {
```



```
        "name": "PayPal",
        "provider-name": "Wirecard"
      }
    ]
  }
}
```

#### 2.3.3.1.6.4 Voucher detail

##### 2.3.3.1.6.4.1 Voucher detail request

```
GET /api/rest/v1/vouchers/:voucher-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

##### 2.3.3.1.6.4.2 Voucher detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json

{
  "data": {
    "id": "f634f09f-9a06-4297-a326-0d703938b702",
    "type": "voucher",
    "attributes": {
      "code": "LEBALLINNL10",
      "currency": "EUR",
      "ean-code": "8717472242211",
      "encryption-type": 0,
      "kind": 0,
      "name": "Lebara All-in NL 10 EUR",
      "provider-code": "LEBARA",
      "provider-name": "Lebara",
      "short-name": "All-in NL 10",
      "value": 10.0,
      "price-total": 11.99,
      "price-tax": 0.00,
      "price-fee": 1.99,
      "payment-methods": {
        "wirecard-creditcard": {
          "name": "Credit Card",
          "provider-name": "Wirecard",
          "image-url": "https://wirecard.com/logo.png"
        },
        "wirecard-paypal": {
          "name": "PayPal",
          "provider-name": "Wirecard"
        }
      }
    }
  }
}
```



#### 2.3.3.1.6.5 Voucher order

See [VoucherWebReserve] method in the [Mimas integration] documentation for the source of these fields.

##### 2.3.3.1.6.5.1 Voucher order request

| Variables | Description | Example |  |  |
|-----------|-------------|---------|--|--|
|           |             |         |  |  |

```
POST /api/rest/v1/voucher-orders HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

{
  "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
    "type": "voucher-order",
    "attributes": {
      "voucher-code": "VODADE15"
      "payment-method": "Wirecard VISA",
      "notification-type": "email",
      "notification-target": "me@my-email.com",
      "provider-text-url": "https://provider.texts",

      "order-success-redirect-url": "/success",
      "order-failed-redirect-url": "failed",
      "order-canceled-redirect-url": "/cancel"
    }
  }
}
```

| field name     | type   | constrains      | description                                                                 | example                              |
|----------------|--------|-----------------|-----------------------------------------------------------------------------|--------------------------------------|
| id             | UUID   | globally unique | globally unique<br>UUID                                                     | c91feaf3-5968-4b60-aa5b-62fe7fdd905c |
| type           | string | n/a             | type of request,<br>must be "voucher-order", "voucher-order"                |                                      |
| voucher-code   | string | n/a             | code of the<br>voucher gathered<br>from voucher list                        | "VODADE15"                           |
| payment-method | string | n/a             | on of the allowed<br>methods for the<br>voucher, denoted<br>in voucher list | "Wirecard VISA"                      |



We enable docx-as-code

| field name                  | type   | constrains                          | description                                                   | example                                      |
|-----------------------------|--------|-------------------------------------|---------------------------------------------------------------|----------------------------------------------|
| response                    |        |                                     |                                                               |                                              |
| notification-type           | string | currently only "email" is supported | type of the notification target                               | "email"                                      |
| notification-target         | string | n/a                                 | target adress                                                 | "[me@my-email.com] (mailto:me@my-email.com)" |
| order-success-redirect-url  | string | valid URL                           | Where the wirecard should redirect if payment was successfull | protect                                      |
| order-failed-redirect-url   | string | valid URL                           | Where the wirecard should redirect if payment fails           | protect                                      |
| order-canceled-redirect-url | string | valid URL                           | Where the wirecard should redirect if payment was canceled    | protect                                      |



### 2.3.3.1.6.5.2 Voucher order response

HTTP/1.1 201 Created

Content-Type: application/vnd.api+json

```
{
  "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
    "type": "voucher-order",
    "attributes": {
      "notification-status": "pending",
      "confirmation-status": "pending",
      "notification-type": "email",
      "notification-target": "me@my-email.com",
      "payment-provider": "wirecard",
      "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiLM",
      "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
      "payment-status": "pending",
      "payment-method": "creditcard",
      "voucher-code": "LEBALLINN10",
      "voucher-currency": "EUR",
      "voucher-value": 10.0
      "voucher-status": "pending",
      "order-price-total": 11.99,
      "order-tax-total": 0.00,
      "order-fee-total": 0.99,
      "order-status": "pending",
      "serial-number": "1234",
      "confirmation-date": "0",
      "batch-number": "1234"
    }
  }
}
```

### 2.3.3.1.6.6 Voucher order detail

#### 2.3.3.1.6.6.1 Voucher order detail request

GET /api/rest/v1/voucher-orders/:order-id HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

#### 2.3.3.1.6.6.2 Voucher order detail response

HTTP/1.1 200 OK

Content-Type: application/vnd.api+json



```
{
  "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
    "type": "voucher-order",
    "attributes": {
      "notification-status": "pending",
      "confirmation-status": "pending",
      "notification-type": "email",
      "notification-target": "me@my-email.com",
      "payment-provider": "wirecard",
      "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-h0mLD2zDgf26ptjxSNRiKFILM",
      "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
      "payment-status": "pending",
      "payment-method": "creditcard",
      "voucher-code": "LEBALLINN10",
      "voucher-currency": "EUR",
      "voucher-value": 10.0
      "voucher-status": "pending",
      "order-price-total": 11.99,
      "order-tax-total": 0.00,
      "order-fee-total": 1.99,
      "order-status": "pending",
      "serial-number": "1234",
      "confirmation-date": "1611313953175"
    }
  }
}
```

#### 2.3.3.1.6.7 Provider Text

See `[GetProviderTexts]` method in the *[Mimas integration]* documentation for the source of these fields.

##### 2.3.3.1.6.7.1 Provider Text request

| Variables | Description | Example |
|-----------|-------------|---------|
|-----------|-------------|---------|



```
GET /api/rest/v1/provider-texts/ HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

GET /api/rest/v1/provider-texts/:provider-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

### 2.3.3.1.6.7.2 Provider Text response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json

{
  "data": [
    {
      "id": "f74bb480-d6df-47ad-8a17-8d7b1b176661",
      "type": "voucher-text",
      "attributes": {
        "provider-code": "ABOUTYOU",
        "kind": "title",
        "title": "Produktname",
        "body": "About You-Geschenkkarte"
      }
    },
    {
      "id": "a598bf3b-abe0-4fc4-80fa-135a84510c81",
      "type": "voucher-text",
      "attributes": {
        "provider-code": "ABOUTYOU",
        "kind": "subtitle",
        "title": "Slogan",
        "body": "Hol Dir per E-Mail eine About You-Geschenkkarte."
      }
    }
  ]
}
```

### 2.3.3.1.6.8 Content

See [Content Service] for more information on the source of these fields.

### 2.3.3.1.6.8.1 Content request

| Variables | Description | Example |
|-----------|-------------|---------|
|-----------|-------------|---------|



```
GET /api/rest/v1/content/i18next.json HTTP/1.1
Authorization: No Auth
Accept: application/json
```

### 2.3.3.1.6.8.2 Content response

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "en": {
    "world.hello": "Hello, World!",
    "example.text": "Lorem ipsum dolor sit amet...",
    "button.cancel": "Cancel",
    "radio.options": {
      "option-1": "Selection 1",
      "option-2": "Selection 2",
    }
  },
  "de": {
    "world.hello": "Hallo, Welt!",
    "example.text": "Lorem ipsum dolor sit amet...",
    "button.cancel": "Abbrechen"
    "radio.options": {
      "option-1": "Auswahl 1",
      "option-2": "Auswahl 2",
    }
  }
}
```

### 2.3.3.1.6.9 Verification

*See for more information on the source of these fields.*





### 2.3.3.1.6.9.1 *Verification request by phone number*

POST /api/rest/v1/auth/phone-number-verification HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

```
{
  "data": {
    "id": "38f4dfef-9baa-4302-831f-e41df4ce4084",
    "type": "phone-number-verification",
    "attributes": {
      "phone-number": "+381691994655",
      "sms-confirmation-code": "716569"
    }
  }
}
```

### 2.3.3.1.6.9.2 *Verification by phone number response*

HTTP/1.1 200 OK

Content-Type: application/json

```
{
  "data": {
    "type": "phone-number-verification",
    "attributes": {
      "phone-number": "+381691994655",
      "ok": false,
      "remaining-number-of-attempts": 4,
      "remaining-expiration-time": 0
    }
  }
}
```

### 2.3.3.1.6.9.3 *Verification request by sms*

POST /api/rest/v1/auth/sms-verification-code HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

```
{
  "data": {
    "id": "48f4dfef-9baa-4302-831f-e41df4ce4084",
    "type": "sms-verification-code",
    "attributes": {
      "phone-number": "+381691994655"
    }
  }
}
```

### 2.3.3.1.6.9.4 *Verification by sms number response*

HTTP/1.1 200 OK

Content-Type: application/vnd.api+json



```
{
  "data": {
    "type": "sms-verification-code",
    "attributes": {
      "phone-number": "+381691994655",
      "ok": true,
      "remaining-number-of-attempts": 2,
      "remaining-delay-time": 20,
      "remaining-expiration-time": 1800
    }
  }
}
```

#### 2.3.3.1.6.10 Cookies

##### 2.3.3.1.6.10.1 Cookies request

POST /api/rest/v1/cookies HTTP/1.1  
Authorization: No Auth  
Accept: application/vnd.api+json

```
{
  "data": [
    {
      "type": "cookie",
      "id": "shopId",
      "attributes": {
        "name": "shopId",
        "value": "1234"
      }
    },
    {
      "type": "cookie",
      "id": "ns_dev_id",
      "attributes": {
        "name": "ns_dev_id",
        "value": "device_id"
      }
    }
  ]
}
```

##### 2.3.3.1.6.10.2 Cookies response

HTTP/1.1 200 OK

#### 2.3.3.1.6.11 Documentation

Returns list of Json Schemas for request and response for requested rest endpoint. Use exact endpoint plus schema url parameter. For example, /api/rest/v1/vouchers?schema will return json schemas for /api/rest/v1/vouchers endpoint.



### 2.3.3.1.6.11.1 Documentation request

```
GET /api/rest/v1/vouchers?schema HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

### 2.3.3.1.6.11.2 Documentation response

Complete Response is omitted because of size , here is just a part :

```
HTTP/1.1 200 OK
```

```
{
  "required": [
    "createdDate",
    "notificationStatus",
    "notificationTarget",
    "notificationType",
    "orderFeeTotal",
    "orderPriceTotal",
    "orderStatus",
    "orderTaxTotal",
    "paymentMethod",
    "paymentProvider",
    "paymentStatus",
    "shortId",
    "voucherCode",
    "voucherCurrency",
    "voucherStatus",
    "voucherValue"
  ]
}
```

### 2.3.3.1.6.12 i18 internationalization

✓ Retrieves i18next json based on requested language

### 2.3.3.1.6.12.1 i18 request

```
GET api/rest/v1/content/i18next.json/de HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

## 2.3.4 Markdown4

### 2.3.4.1 From today's featured article



Figure 1 Lionel Matthews

Lionel Matthews (15 August 1912 -- 2 March 1944) was an Australian Army officer during World War II who was posthumously awarded the George Cross, the highest non-combat award for heroism for members of the Australian armed forces at the time. Matthews served in the 27th Brigade during the Malayan campaign, and at the surrender of Singapore in 1942 became a prisoner of war (POW). He was awarded the Military Cross for courage, energy and ability under fire during this fighting.

2.3.4.1.1 *Did you know ...*

- ✓ *that in 2017 you could finally have breakfast at Tiffany's (pictured)?*
- ✓ *that the British mycologist Denis Garrett, "one of the last 'string and sealing wax' scientists", once bought plastic lavatory cisterns for his laboratory to use in experiments?*
- ✓ *that sand in the stomach of the ocean surgeon helps to grind up its food?*

2.3.4.1.1.1 *In the news*

1. More than 300 girls are kidnapped from a secondary school by armed bandits in Zamfara, Nigeria.
2. In tennis, Naomi Osaka wins the women's singles and Novak Djokovic wins the men's singles at the Australian Open (both winners pictured).

2.3.4.1.1.1.1 *On this day*

2.3.4.1.1.1.1.1 *March 2*

**1444** -- *The League of Lezhë, an alliance of regional chieftains, was established in Venetian Albania with Skanderbeg as its commander.*

**1865** -- *New Zealand Wars: Carl Sylvius Völkner (pictured), a Protestant missionary, was killed by Hauhau militants in Ōpōtiki for working as an agent for George Grey, Governor-General of New Zealand.*

**1937** -- *The Steel Workers Organizing Committee, precursor to the United Steel Workers of America, had a major success when it signed a collective-bargaining agreement with U.S. Steel.*

**1962** -- *Led by General Ne Win, the Burmese military seized power in a coup d'état.*



aaaaaaaaaaaaaaaaaaaa

#### 2.3.4.1.1.1.1.1 Today's featured picture

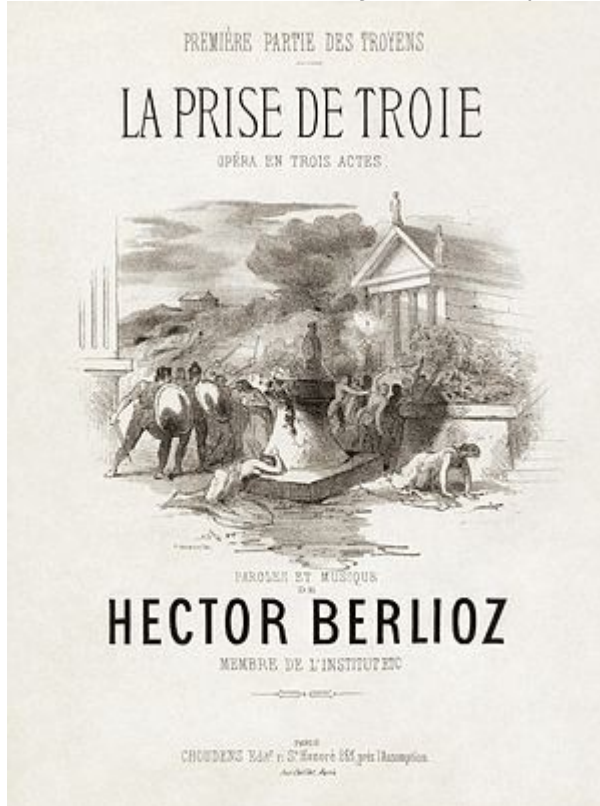


Figure 2 Today's featured picture

#### 2.3.4.2 Armed conflicts and attacks

##### ✓ Zamfara kidnapping

1. All 279 abducted schoolgirls from a boarding school in Zamfara State, Nigeria, are released by their armed kidnappers. (Reuters)

#### 2.3.4.2.1 Health and environment

##### ✓ [COVID-19 pandemic](#)

##### 1. [COVID-19 pandemic in Asia](#)

- [COVID-19 pandemic in Indonesia](#)
  - [Indonesia](#) reports their first two cases of [Lineage B.1.1.7](#) variant first detected in the United Kingdom. (Liputan6.com)
- [COVID-19 pandemic in Iraq](#)
  - Iraq receives 50,000 doses of Sinopharm vaccines as the country officially begins its vaccination campaign. (Asharq Al-Awsat)
- COVID-19 pandemic in Mongolia
  - Mongolia surpasses 3,000 cases of COVID-19. (Montsame)
- COVID-19 pandemic in the Philippines



- The Philippines reports their first six cases of 501.V2 variant first detected in South Africa. (GMA News)

### 2.3.5 Markdown5

#### 2.3.5.1 Пандемија ковида 19

##### 2.3.5.1.1 Мере изолације у Кини

##### 2.3.5.1.1.1 Провинција Хубеи

| Град                     | Датум карантина | Популација |
|--------------------------|-----------------|------------|
| <a href="#">Вухан</a>    | 23. јануар 2020 | 11 081 000 |
| <a href="#">Хуанганг</a> | 23. јануар 2020 | 6 630 000  |
| Езхо                     | 23. јануар 2020 | 1 007 700  |
| Шиби                     | 24. јануар 2020 | 490 900    |
| Јингзу                   | 24. јануар 2020 | 5 590 200  |
| Зиијанг                  | 24. јануар 2020 | 497 600    |
| <a href="#">Јичанг</a>   | 24. јануар 2020 | 4 135 900  |

*Власти такође наређују затварање јавних забавних места попут биоскопа, позоришта, па чак и сајбер кафеа. Свим становницима је наређено да не напуштају град осим ако им власти не дозволе. Здравствена управа у Вухану обавезује ношење маске на јавним местима. 25. јануара, кинеске власти проширују карантинску зону на готово читаву провинцију Хубеи.*

---

**Власти такође наређују затварање јавних забавних места попут биоскопа, позоришта, па чак и сајбер кафеа. Свим становницима је наређено да не напуштају град осим ако им власти не дозволе. Здравствена управа у Вухану обавезује ношење маске на јавним местима. 25. јануара, кинеске власти проширују карантинску зону на готово читаву провинцију Хубеи.**

[Вухан](#)



#### 2.3.5.1.1.1.1 Напредовање вируса корона у Кини

Хонг Конг и Макао проглашавају прве случајеве 22. јануара.  
Почетком фебруара, број умрлих у Кини премашио је број  
епидемије САРС-а.

---



### 2.3.5.1.2 Here are some test codes

```
public class Test {
    /**
     * This method returns status of checkbox (is checkbox checked). Method finds element by
     * checkbox text and gets class of that element, after that
     * it checks if class contains 'checkbox-checked', if class contains that text then
     * checkbox is selected and true value is return
     * if checkbox doesn't contain that text then false is returned
     *
     * @param checkboxText - text of checkbox of witch you want to get status (e.g. "Read
     * Only")
     * @return - method is returning boolean value. If checkbox class contains "checkbox-
     * checked" then true is returned in other case
     * false is returned
     */
    private boolean getCheckboxCheckedStatusByName(String checkboxText) {
        boolean isChecked = false;
        waitForDisplayedElement(ue("getCheckboxStatusByText", checkboxText));
        String checked = getDisplayedElement(ue("getCheckboxStatusByText",
        checkboxText)).getAttribute("class");

        if (checked.contains("checkbox-checked")) {
            isChecked = true;
        }
        return isChecked;
    }
}

<div class="plainlinks"
    style="background-color: #FBEBEA; border-radius:5px; margin-top:10px; position:relative;
border: 1px solid #aaa; font-family: 'Helvetica', 'Arial', sans-serif; line-height: 18px; box-
shadow: 0 1px 1px rgba( 0, 0, 0, 0.15 ); overflow:hidden;">
    <div style="display:block; top:4px; width:100%; text-align:center;;">
        <div style="color:#000085; font-size:25px; line-height:25px">
            <div style="padding-left:50px;"></div>
        </div>
        <div style="padding-top:2px; color:#444; font-size:1.15em; line-height:1.5;">
            <div style="padding-left:8px; padding-right:8px;">Учествујте у <b><a
                href="/wiki/%D0%92%D0%B8%D0%BA%D0%B8%D0%BF
%D0%B5%D0%B4%D0%B8%D1%98%D0%B0:%D0%9A%D0%B0%D0%BC%D0%BF%D0%B0%D1%9A%D0%B0_
%D1%83%D1%80%D0%B5%D1%92%D0%B8%D0%B2%D0%B0%D1%9A%D0%B0_
%D1%80%D0%B5%D1%84%D0%B5%D1%80%D0%B5%D0%BD%D1%86%D0%B8_1Lib1Ref_2021"
                title="Википедија:Кампања уређивања референци 1Lib1Ref 2021">Кампањи
уређивања референци
                „1lib1ref"</a></b> од 15. јануара до 5. фебруара.
            </div>
        </div>
    </div>
</div>
```

### 2.3.5.2 Here is some youtube video





### **2.3.6 h1 Heading 8-)**

#### **2.3.6.1 h2 Heading**

##### **2.3.6.1.1 h3 Heading**

##### **2.3.6.1.1.1 h4 Heading**

##### **2.3.6.1.1.1.1 h5 Heading**

##### **2.3.6.1.1.1.1.1 h6 Heading**

#### **2.3.6.2 Horizontal Rules**

#### **2.3.6.3 Typographic replacements**

Enable typographer option to see result.

(c) (C) (r) (R) (tm) (TM) (p) (P) +-

test.. test... test..... test?..... test!.....

!!!!!! ???? ,, -- ---

"Smartyants, double quotes" and 'single quotes'

#### **2.3.6.4 Emphasis**

**This is bold text**

**This is bold text**

*This is italic text*

*This is italic text*

~~Strikethrough~~

#### **2.3.6.5 Blockquotes**

*Blockquotes can also be nested...*

*...by using additional greater-than signs right next to each other...*

*...or with spaces between arrows.*

---



### 2.3.6.6 Lists

#### Unordered

- ✓ Create a list by starting a line with +, -, or \*
- ✓ Sub-lists are made by indenting 2 spaces:
  1. Marker character change forces new list start:
    - Ac tristique libero volutpat at
    - Facilisis in pretium nisl aliquet
    - Nulla volutpat aliquam velit
- ✓ Very easy!

#### Ordered

1. Lorem ipsum dolor sit amet
2. Consectetur adipiscing elit
3. Integer molestie lorem at massa
4. You can use sequential numbers...
5. ...or keep all the numbers as 1.

Start numbering with offset:

1. foo
2. bar

### 2.3.6.7 Code

#### Inline code

#### Indented code

```
// Some comments  
line 1 of code  
line 2 of code  
line 3 of code
```

#### Block code "fences"

```
Sample text here...
```

#### Syntax highlighting

```
var foo = function (bar) {  
  return bar++;  
};  
  
console.log(foo(5));
```

### 2.3.6.8 Tables



We enable docx-as-code

Option	Description
data	path to data files to supply the data that will be passed into templates.
engine	engine to be used for processing templates. Handlebars is the default.
ext	extension to be used for dest files.

Right aligned columns

Option	Description
data	path to data files to supply the data that will be passed into templates.
engine	engine to be used for processing templates. Handlebars is the default.
ext	extension to be used for dest files.

#### 2.3.6.9 Links

[link text](#)

[link with title](#)

Autoconverted link <https://github.com/nodeca/pica> (enable linkify to see)

#### 2.3.6.10 Images



We enable docx-as-code



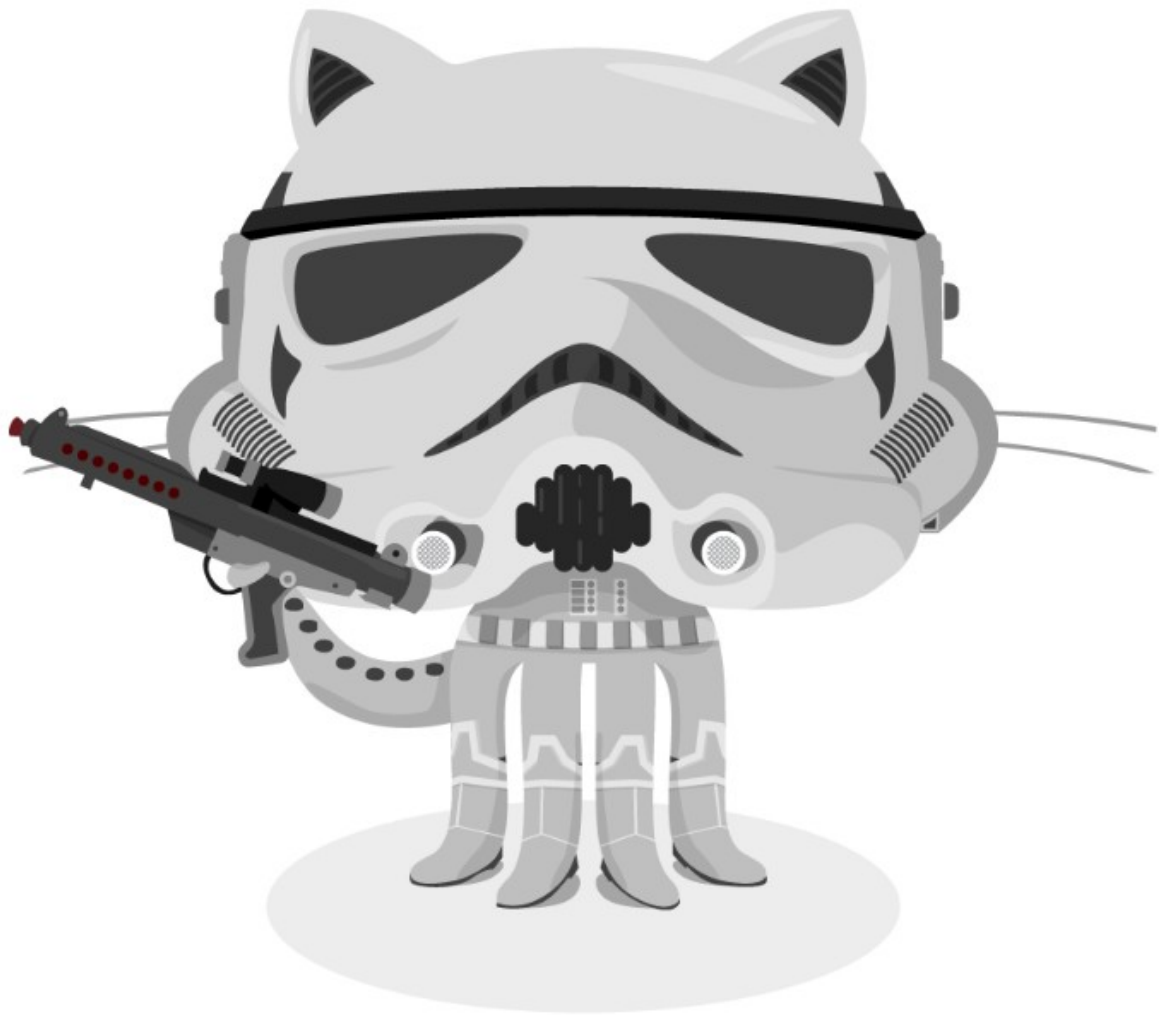


Figure 3 The Stormtroopocat

Like links, Images also have a footnote style syntax



Figure 4 The Dojocat

With a reference later in the document defining the URL location:

#### 2.3.6.11 Plugins

The killer feature of markdown-it is very effective support of [syntax plugins](#).

##### 2.3.6.11.1 [Emojies](#)

*Classic markup:* `:wink: :crush: :cry: :tear: :laughing: :yum:`

*Shortcuts (emoticons):* `:-) :-( 8-) ;)`

---



see [how to change output](#) with twemoji.

#### 2.3.6.11.2 [Subscript](#) / [Superscript](#)

✓ 19<sup>th</sup>

✓ H<sub>2</sub>O

#### 2.3.6.11.3 [<ins>](#)

Inserted text

#### 2.3.6.11.4 [<mark>](#)

==Marked text==

#### 2.3.6.11.5 [Footnotes](#)

Footnote 1 link<sup>1</sup>.

Footnote 2 link<sup>2</sup>.

Inline footnote<sup>^</sup>[Text of inline footnote] definition.

Duplicated footnote reference<sup>2</sup>.

#### 2.3.6.11.6 [Definition lists](#)

Term 1

Definition 1 with lazy continuation.

Term 2 with *inline markup*

Definition 2

```
{ some code, part of Definition 2 }
```

Third paragraph of definition 2.

*Compact style:*

Term 1 ~ Definition 1

Term 2 ~ Definition 2a ~ Definition 2b



#### 2.3.6.11.7 [Abbreviations](#)

This is HTML abbreviation example.

It converts "HTML", but keep intact partial entries like "xxxHTMLyyy" and so on.

\*[HTML]: Hyper Text Markup Language

#### 2.3.6.11.8 [Custom containers](#)

::: warning *here be dragons* :::

1. Footnote **can have markup**  
and multiple paragraphs.

1. Footnote text.



## 2.4 web docs

### 2.4.1 *Where To Get Support*

**Note:** This is the demo content for demonstration purpose only. The primary function of this content is to show you what this theme can do. There is a more detailed explanation in the **Getting Started** section.

**Lorem ipsum dolor sit amet, consectetur adipiscing elit.** Donec ut nulla laoreet, finibus purus sit amet, ullamcorper felis. Aliquam sagittis consectetur ullamcorper. Ut dapibus ex a nibh euismod tincidunt. Vestibulum quam velit, placerat vel ipsum eget, vulputate aliquet nibh. Cras hendrerit, justo a sagittis pharetra, ante elit imperdiet quam, eget euismod mauris lacus at eros. Sed et est interdum leo ultricies feugiat non non est. Aenean sit amet sollicitudin tellus, at pellentesque massa. Vestibulum dapibus magna quis dui ultrices vestibulum.

#### 2.4.1.1 *Stack Overflow*

Suspendisse hendrerit maximus metus in placerat. In ligula magna, efficitur sed ultrices non, iaculis ut ligula. Sed finibus efficitur cursus. Proin quis molestie purus. Vestibulum ut magna eget tortor tempor egestas eget eu orci. Integer porta cursus rutrum. Quisque porta suscipit sem, et tincidunt felis malesuada vel.

#### 2.4.1.2 *Popular Discussion Forums*

Donec eget tellus magna. Duis eu metus sem. Donec nec ullamcorper dui. Phasellus turpis mauris, lacinia ac imperdiet eu, dapibus eu metus. Vestibulum porta lectus vel dui eleifend pretium. Nulla facilisi. Nam luctus quam at velit congue tincidunt. Ut tempus justo at urna





varius commodo.

#### 2.4.1.3 *Twitter*

Vestibulum maximus volutpat eros a lobortis. Duis cursus neque id sollicitudin vehicula. Morbi varius dapibus est, sed bibendum diam aliquam eu. Morbi maximus consequat sem id vestibulum.

Nam semper, augue pharetra commodo commodo, magna augue ornare ligula, ut gravida nisi nulla vel velit. Quisque tincidunt posuere ex eget luctus.

**Sed a dui in turpis porttitor hendrerit quis id odio.**

#### 2.4.2 *Plug-ins*

**Note:** This is the demo content for demonstration purpose only. The primary function of this content is to show you what this theme can do. There is a more detailed explanation in the **Getting Started** section.

##### 2.4.2.1 *Syntax highlighting*

You can add a language identifier to enable syntax highlighting in your code block. For example, to highlight the **JavaScript** code, specify javascript next to the tick marks before the fenced code block:

```
```javascript
if (condition) {
  code to run if condition is true
} else {
  run some other code instead
}
```
```

The rendered output looks like this:

```
if (condition) {
  code to run if condition is true
} else {
  run some other code instead
}
```

Or to highlight the **CSS** code, specify css next to the tick marks before the fenced code block:



```
```css
body {
  background: #fff;
  color: #666;
  line-height: 1.66667; }

a {
  color: #d4a259;
  text-decoration: underline;
  -webkit-transition: background .3s ease, color .3s ease;
  transition: background .3s ease, color .3s ease; }

a:hover {
  color: #1d1d1d;
  text-decoration: none; }
```
```

The rendered output looks like this:

```
body {
  background: #fff;
  color: #666;
  line-height: 1.66667; }

a {
  color: #d4a259;
  text-decoration: underline;
  -webkit-transition: background .3s ease, color .3s ease;
  transition: background .3s ease, color .3s ease; }

a:hover {
  color: #1d1d1d;
  text-decoration: none; }
```

### 2.4.3 Tables

You can build tables with markdown to help you organize information. To add a table, use three or more hyphens (---) to create each column's header, and use pipes (|) to separate each column like in the example below.

```
Title	Title
Text	Text
Text	Text
```

Title

Title

Text

Text

Text

Text

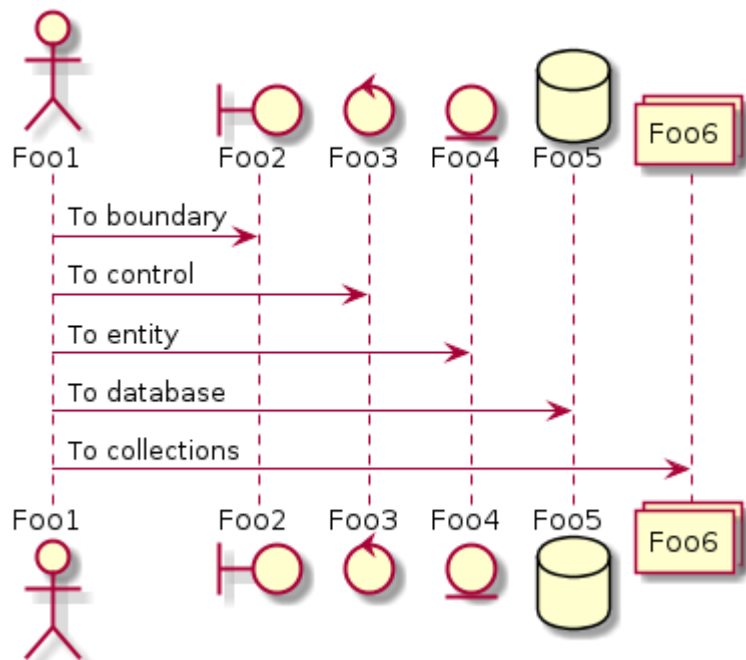


## 2.5 This is heading

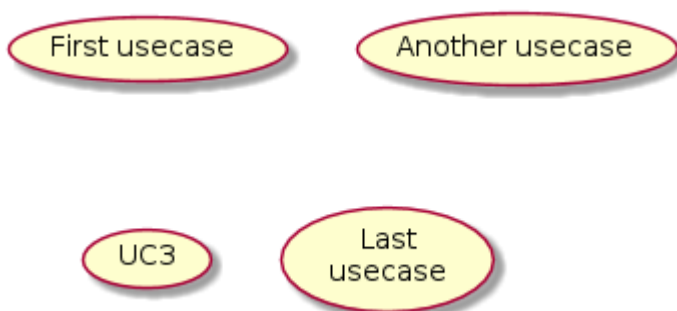
```
private String createTitleFromFileName(String title) {  
    String newTitle = title.substring(0, title.lastIndexOf("."));  
    newTitle = newTitle.replaceAll("_", "");  
    System.out.println(newTitle);  
    return StringUtils.capitalize(newTitle);  
}
```

## 2.6 UML diagrams

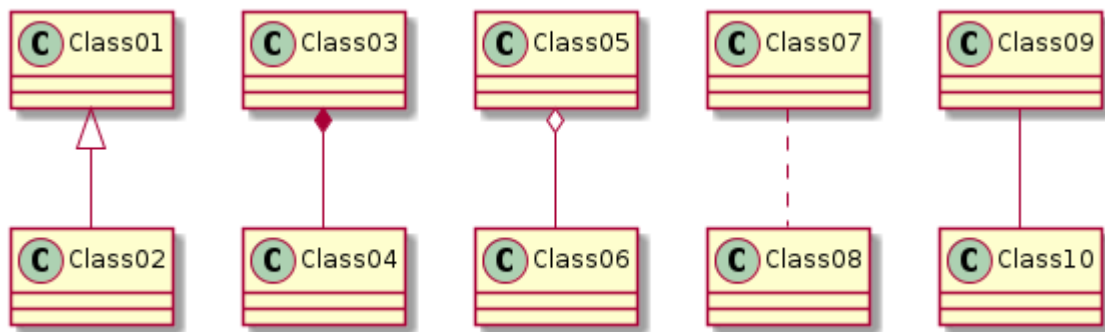
### 2.6.1 Sequence Diagram



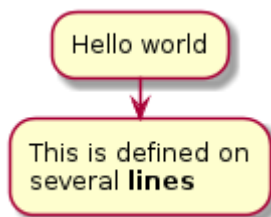
### 2.6.2 Use Case Diagram



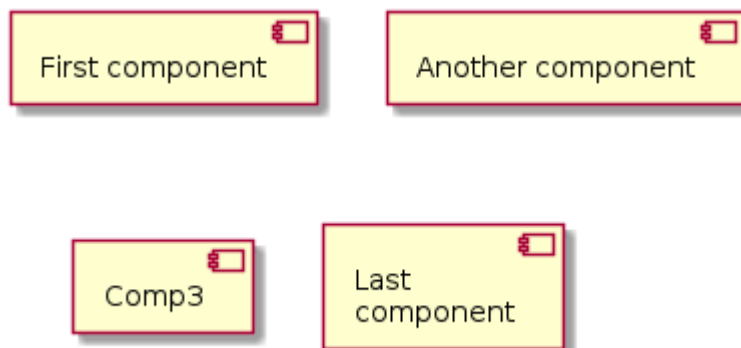
### 2.6.3 Class Diagram



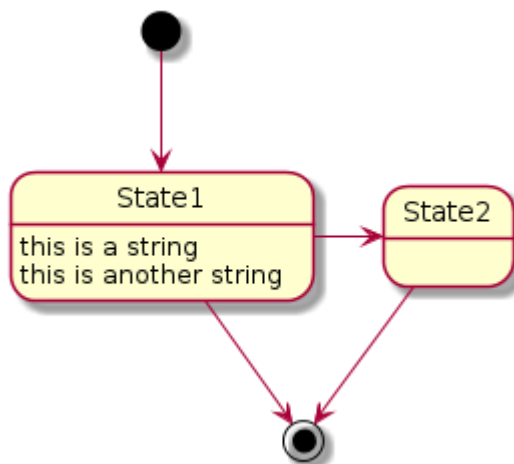
#### 2.6.4 Activity Diagram



#### 2.6.5 Component Diagram



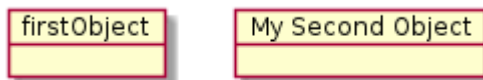
#### 2.6.6 State Diagram



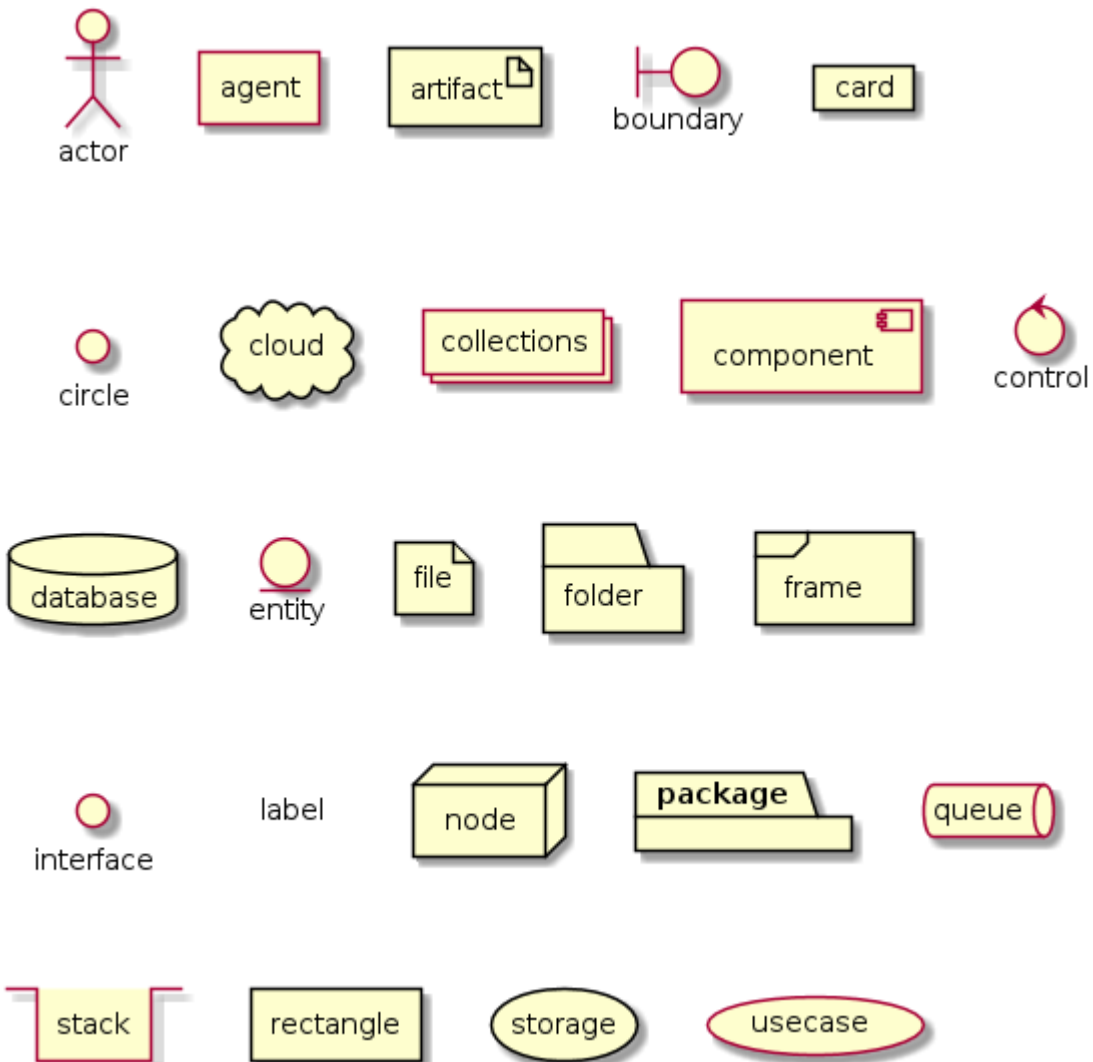
#### 2.6.7 Object Diagram



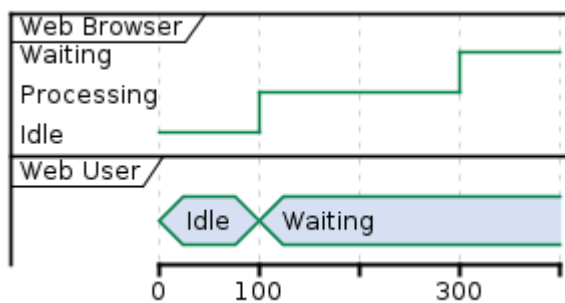
We enable docx-as-code



### 2.6.8 Deployment diagram



### 2.6.9 Timing Diagram





## 2.7 Integrations with other Apps

We do support integrations with other popular Apps. Check out the details below.

On the following Figure, are outlined integration capabilities with the other apps:

### 2.7.1 Integration with Git Repositories

In order to import one of your projects to our App, you would need to keep your cool projects in one of the supported Git service providers.

Currently we support the following Git providers:

1. GitHub
2. GitLab
3. Azure DevOps
4. Atlassian (Bitbucket)

But no worries, we are working hard to support the others as well. Stay tuned.

### 2.7.2 Integration with OAuth Providers

We want your user experience on the top level. You don't need to remember many passwords any more. It is enough to register and login with one of the supported authentication providers.

Currently we support the following OAuth providers:

1. Google
2. GitHub
3. GitLab

## 2.8 UC1 Work in GIT and Produce DOCX & PDF

- ✓ *Do you work in Git?*
- ✓ *Do you like current DOCX editors?*
- ✓ *Do you need to produce high quality DOCX?*

If answers are: **yes, no, yes** respectively, you are at the right place.

In this section we will explain the workflow on how you can work in Git and still produce high quality DOCX and PDF using our solution (very convenient for DevOps and Agile teams). This concept is known as docs-as-code, or we like to call it docx-as-code. The workflow is outlined in the following UML diagram:

1. Register (if not already done) and login to our application
2. Import a Git project where you have Markdown based documentation.



3. Our application will connect to your repo and import it.
4. Upload your DOCX corporate template. For more details how to do it please check [Create docx Template](#).
5. Start a new doc in our application.
6. Create manually the structure (Table of Content) of the new document, based on Markdown docs in your Git repo.
7. Save your new doc in our application and push it to your Git repo.
8. Our App will push to your Git project uploaded DOCX template.
9. Our App will push to your Git project created DOCX structure (Table of Content).
10. Our App will push to your Git project new updated DOCX and PDF documents.
11. **[If Updating the Content]** You can update the content and commit the change to your repo.
12. Your repo through webhook service will notify our App about the change.
13. Our App will generate updated DOCX and PDF.
14. Our App will push to your Git project new updated DOCX and PDF documents.
15. **[If Changing DOCX Template]** You can update the DOCX Template and commit the change to your repo.
16. Your repo through webhook service will notify our App about the new Template.
17. Our App will generate updated DOCX and PDF.
18. Our App will push to your Git project new updated DOCX and PDF documents.
19. **[If Changing Table of Content]** You can update the Table of Content and commit the change to your repo. There are different possibilities: add/remove chapters/ .md docs, change order/heading level
20. Your repo through webhook service will notify our App about the new Table of Content.
21. Our App will generate updated DOCX and PDF.
22. Our App will push to your Git project new updated DOCX and PDF documents.

### If using PuzzlesCloud for Updates

This option is still in development, coming soon.

## 2.9 UC2 Make Your Website Docs Available Offline

- ✓ *Do you use some of the Jamstack Static Site Generators (SSG) - Jekyll, Hugo, Next.js, Gatsby etc?*
- ✓ *Do you think it is cool to make your website content available offline?*

If answers are: **yes, yes** respectively, you are at the right place.

In this section we will explain the workflow on how you can keep using your favorite SSG and still make your website content available offline. The workflow is outlined in the following UML diagram:

1. Register (if not already done) and login to our application
2. Import a Git project where you have Markdown based documentation.
3. Our application will connect to your repo and import it.



4. Upload your DOCX corporate template. For more details how to do it please check [Create DOCX Template](#).
5. Save your new doc in our application and push it to your Git repo.
6. Our App will autogenerate the DOCX structure from the SSG repo
7. Our App will push to your Git project uploaded DOCX template.
8. Our App will push to your Git project created DOCX structure (Table of Content).
9. Our App will push to your Git project new updated DOCX and PDF documents.
10. **[If Using Git for Updates][If Updating the Content]** You can update the content and commit the change to your repo.
11. Your repo through webhook service will notify our App about the change.
12. Our App will autogenerate updated DOCX and PDF.
13. Our App will push to your Git project new updated DOCX and PDF documents.
14. **[If Changing DOCX Template]** You can update the DOCX Template and commit the change to your repo.
15. Your repo through webhook service will notify our App about the new Template.
16. Our App will autogenerate updated DOCX and PDF.
17. Our App will push to your Git project new updated DOCX and PDF documents.
18. **[If Changing Table of Content]** You can update the Content structure and commit the change to your repo. There are different possibilities: add/remove chapters/ .md docs, change order/heading level
19. Your repo through webhook service will notify our App about the new Table of Content.
20. Our App will autogenerate updated DOCX and PDF.
21. Our App will push to your Git project new updated DOCX and PDF documents.

#### **If using PuzzlesCloud for Updates**

This option is still in development, coming soon.

## **2.10 Filebeat**

### **2.10.1 Filebeat**

Filebeat is a lightweight shipper for forwarding and centralizing log data. Filebeat monitors the log files or locations that you specify, collects log events, and forwards them either to Elasticsearch or Logstash for indexing.

### **2.10.2 1.0 Installing filebeat**

To download and install Filebeat, use the commands that work with your system.

```
curl -L -O https://artifacts.elastic.co/downloads/beats/filebeat/filebeat-7.5.0-amd64.deb
sudo dpkg -i filebeat-7.5.0-amd64.deb
```

for other download options visit [this](#) page.

### **2.10.3 2.0 How filebeat works**





Filebeat consists of two main components: inputs and harvesters.

#### **2.10.3.1 2.1 What is a harvester**

A harvester is responsible for reading the content of a single file. One harvester is started for each file and it reads the file, line by line, then sends the content to output. The harvester is responsible for opening and closing the file, which means that the file descriptor remains open while the harvester is running. If a file is removed or renamed while it's being harvested, Filebeat continues to read the file.

#### **2.10.3.2 2.2 What is an input**

An input is responsible for managing the harvesters and finding all sources to read from. Filebeat currently supports several [input](#) types. If the input type is log, input finds all files in the provided paths and starts a harvester for each file.

```
filebeat.inputs:
- type: log
  paths:
    - /var/log/*.log
    - /var/path2/*.log
```

For more informations on how filebeat works visit [this](#) page.

#### **2.10.4 3.0 Filebeat configuration**

To configure Filebeat, you need to edit the configuration file. The default configuration file is called filebeat.yml and should be located in /etc/filebeat/. There is also example configuration file in the same folder called filebeat.reference.yml.

##### **2.10.4.1 3.1 Specifying modules**

Using filebeat modules is optional.

Modules provide quick way to get started with processing log formats. They contain default configurations, elasticsearch pipeline definitions and kibana dashboards for a quick implementation. Modules can be enable in a few ways:

- ✓ Enable modules configs in the modules.d directory
- ✓ Enable modules when you run filebeat
- ✓ Enable module configs in the filebeat.yml file

For more information on each way visit [this](#) page.

##### **2.10.4.2 3.2 Inputs configuration**

Another way of configuration is to manually configure inputs as oppose to enabling modules. To do so you specify list of inputs in the filebeat.inputs section of filebeat.yml file.



Inputs specify how filebeat locates and processes input data.

```
filebeat.inputs:
- type: log
  paths:
    - /var/log/system.log
    - /var/log/wifi.log
- type: log
  paths:
    - "/var/log/apache2/*"
  fields:
    apache: true
  fields_under_root: true
```

Multiple inputs can be used even if they are the same type. Filebeat supports many inputs. See all available [here](#).

#### **2.10.4.3 3.3 Output configuration**

Output can be configured in an output section of a filebeat config file. Only one output can be defined. Filebeat supports a variety of outputs. Some of them are logstash and elasticsearch. Example of logstash output:

```
output.logstash:
  hosts: ["0.0.0.0:5044"]
  ssl.enabled: true
  ssl.certificate_authorities: ["/etc/logstash/logstash.crt"]
```

For more information about logstash output go [here](#) or for more information on other output options go [here](#)

#### **2.10.4.4 3.4 Multiline messages management**

Log files that are processed can contain messages that span multiple lines of text such as java stack traces.

##### **2.10.4.4.1 3.4.1 Configuration options**

To handle these multiline events you need to configure multiline settings in the filebeat.yml config file. You can specify these options in the filebeat.inputs section of the config file. Here is the example:

```
multiline.pattern: '^\['
```

```
multiline.negate: true
```

```
multiline.match: after
```

In multiline.pattern is specified regexp pattern to match. Multiline.negates defines whether the pattern is negated and multiline.match specifies how filebeat combines matching lines into an event. The settings are "before" and "after" and behaviour depends on the value in negate option. For more info on multiline management visit [this](#) page or for more multiline



example [this](#) page

#### **2.10.4.5 3.5 Filter and enhance the exported data**

In some cases there might be some sufficient data or some additional information needs to be included. Filebeat provides a couple of options for data modification. For each input can be specified to include or exclude certain files or lines. This is done by adding corresponding options to the filebeat.inputs section

```
filebeat.inputs:
- type: log
...
exclude_files: ['\.gz$']
include_lines: ['^ERR', '^WARN']
```

The disadvantage of this approach is that you need to implement a configuration option for each filtering criteria that you need.

Another approach is to define processors to configure global processing across all data.

##### **2.10.4.5.1 3.5.1 Processors**

Processors are defined to process events before they are sent to the configure output. Processors can be used for:

- ✓ *reducing the number of exported fields*
- ✓ *enhancing events with additional metadata*
- ✓ *performing additional processing and decoding*

Each processor receives an event, applies action and returns the event. If there is multiple processors defined they are executed in order they are defined. Some of the processors that can be used are drop\_event and json decode. Examples:

```
processors:
- drop_event:
  when:
    regexp:
      message: "^DBG:"
```

Full list of processors and their definitions can be found [here](#).

#### **2.10.4.6 3.6 Other configurations**

There is a lot more configuration that can be done. Some of it include specifying SSL or general settings, loading external configuration files and much more. See full list [here](#).

### **2.10.5 4.0 Running filebeat**

#### **2.10.5.1 4.1 Command line**



Filebeat can be run from command line with following command

```
filebeat run -e
```

or

```
filebeat -e
```

It could also be run as a service

```
service filebeat start
```

For all filebeat commands visit [this](#) page.

#### **2.10.5.2 4.2 Running filebeat on docker**

Docker images for Filebeat are available from the Elastic Docker registry.

##### **2.10.5.2.1 4.2.1 Pulling the image**

Filebeat docker image can be obtained with docker pull command:

```
docker pull docker.elastic.co/beats/filebeat:7.5.0
```

##### **2.10.5.2.2 4.2.2 Configure filebeat on docker**

Configuration can be done in multiple ways, by providing config file via a volume mount or by creating custom image with user defined configuration.

###### **2.10.5.2.2.1 4.2.2.1**

One way to configure Filebeat on Docker is to provide filebeat.docker.yml via a volume mount. With docker run, the volume mount can be specified like this.

```
docker run -d \  
  --name=filebeat \  
  --user=root \  
  --volume="$(pwd)/filebeat.docker.yml:/usr/share/filebeat/filebeat.yml:ro" \  
  --volume="/var/lib/docker/containers:/var/lib/docker/containers:ro" \  
  --volume="/var/run/docker.sock:/var/run/docker.sock:ro" \  
  docker.elastic.co/beats/filebeat:7.5.0 filebeat -e -strict.perms=false \  
  -E output.elasticsearch.hosts=["elasticsearch:9200"]
```

###### **2.10.5.2.2.2 4.2.2.2 Custom image configuration**

It's possible to embed your Filebeat configuration in a custom image. Here is an example Dockerfile to achieve this:



```
FROM docker.elastic.co/beats/filebeat:7.5.0
COPY filebeat.yml /usr/share/filebeat/filebeat.yml
USER root
RUN chown root:filebeat /usr/share/filebeat/filebeat.yml
USER filebeat
```

## 2.11 Plug-ins

pocetni tekst

### 2.11.1 heading treceg nivoa

neki teksts ispod headinga treceg nivoa

## 2.12 Tech Tailors

[HTTPS](#)

[HTTP](#)

[HTTP](#)

[HTTP](#)

## 2.13 heading drugog nivoa

tekst ispod heading drugog nivoa koji se nalazi ispod heading treceg nivoa

## 2.14 HyperlinkImage

## 2.15 Images (captions)

## 2.16 Logstash

### 2.16.1 Logstash

Logstash is an open source, server-side data processing pipeline that ingests data from a multitude of sources simultaneously, transforms it, and then sends it to your favorite "stash".

### 2.16.2 1.0 Instalation

Logstash requires Java 8 or Java 11.

#### 2.16.2.1 1.1 Installing from a downloaded binary

Logstash binaries are available [here](#). Just unzip the package into desired directory.



### **2.16.2.2 1.2 Installing from package repositories**

There are repositories for APT and YUM based distributions. To install logstash using APT follow this [link](#) or if you use YUM follow this [link](#).

### **2.16.2.3 1.3 Running logstash on docker**

Docker images for logstash are available from the elastic docker registry. Obtaining logstash for docker can be done with following command

```
docker pull docker.elastic.co/logstash/logstash:7.5.0
```

### **2.16.3 2.0 How logstash works**

The Logstash event processing pipeline has three stages:

- ✓ *inputs*
- ✓ *filters*
- ✓ *outputs*

Input generates events, filters modify them and outputs ships them elsewhere.

#### **2.16.3.1 2.1 Inputs**

You use inputs to get data into Logstash. Most common inputs are:

- ✓ *file: reads from a file on the filesystem*
- ✓ *syslog: listens on port514 for syslog messages*
- ✓ *redis: reads from a redis server*
- ✓ *beats: processes events sent by beats*
  1. *filebeat*
  2. *auditbeat*
  3. *metricbeat*
  4. *...*

Input examples:



```
input {
  beats {
    port => 5044
    ssl => true
    ssl_certificate => "/etc/logstash/logstash.crt"
    ssl_key => "/etc/logstash/logstash.key"
    ssl_verify_mode => "none"
  }
}

input {
  file {
    path => "/var/log/*.log"
  }
}
```

For more information about input plugins visit [this](#) page.

### 2.16.3.2 2.2 Filters

Filters are used to process events. You can combine filters with conditionals for more specific processing.

Some of most used filters are:

- ✓ *grok: parse unstructured log data into something structured*
- ✓ *mutate: perform transformations on event fields(rename, remove, replace)*
- ✓ *drop: drop an event*
- ✓ *geoip: add information about geo location of IP addresses*

Filter examples:

The following example will pull out fields from a simple log:

```
55.3.244.1 GET /index.html 15824 0.043

filter {
  grok {
    match => { "message" => "%{IP:client} %{WORD:method} %{URIPATHPARAM:request} %{NUMBER:bytes} %{NUMBER:duration}" }
  }
}
```

After the filter the event will have additional fields in it:

- ✓ *client: 55.3.244.1*
- ✓ *method: GET*
- ✓ *request: /index.html*
- ✓ *bytes: 15824*
- ✓ *duration: 0.043*



For more information about filter plugins visit [this](#) page.

### 2.16.3.3 2.3 Outputs

Finally outputs are used to ship events to other services. One event can be sent to multiple outputs. Some of the outputs are:

- ✓ *elasticsearch*
- ✓ *file*

Output examples:

```
output{
  elasticsearch{
    hosts => "path.to.your.elastic.search.com"
    index => "auth-logs-%{+YYYY.MM.dd}"
    user => "elastic"
    password => "xxxxxxx"
  }
}
```

For more information about available outputs visit [this](#) page.

### 2.16.3.4 2.4 Codecs

Codecs are stream filters that can operate as part of an input or output. A codec plugin changes the data representation of an event. Some of the codecs are:

- ✓ *json: encode or decode data in the json format*
- ✓ *multiline: merge multiple text lines into a single event (java exception and stacktrace).*

For more information about available codecs visit [this](#) page.

## 2.16.4 3.0 Logstash Configuration

There are two types of configuration files for logstash: pipeline configuration files and settings files.

### 2.16.4.1 3.1 Pipeline configuration

Pipeline configuration files define logstash processing pipeline. As it was said earlier logstash pipeline consists of three sections (stages), two of them are required (input, output) and one is optional (filter). In each section you can specify plugins that you need to use and also specify settings for them. You can reference specific event fields in configuration and use conditionals to process events based on criteria. To run logstash with specific configuration files use following command:





```
bin/logstash -f logstash.conf
```

where -f flag represents path to config file or path to folder where the config files are located. Config file can be separated in multiple files where each file can represent one section or part of a section.

#### 2.16.4.1.1 3.1.1 Plugin configuration

Plugin configuration consists of the plugin name followed by a block of settings.

```
input {  
  file {  
    path => "/var/log/messages"  
    type => "syslog"  
  }  
}
```

More about was said earlier [input plugins](#), , .

##### 2.16.4.1.1.1 Value types

###### ✓ Lists

```
path => [ "/var/log/messages", "/var/log/*.log" ]
```

###### ✓ Boolean

```
ssl_enable => true
```

###### ✓ Bytes

```
my_bytes => "1113" # 1113 bytes my_bytes => "10MiB" # 10485760 bytes
```

###### ✓ Codec

```
codec => "json"
```

For more value types go [here](#)

#### 2.16.4.1.2 3.1.2 Accessing Event Data and Fields

As it was said before pipeline consists out of 3 sections (stages): inputs, filters, outputs. Inputs generate events, filters modify them and outputs ship them. All events have properties or as they're called in logstash fields. In logstash you can reference field by a name. Syntax to access the field is [fieldname]. To access nested field full path must be specified [top-level field][nested field]. Click to see example of the event.



```
...
{
    "message" => "127.0.0.1 - - [11/Dec/2013:00:01:45 -0800] \"GET /xampp/status.php
HTTP/1.1\" 200 3891 \"http://cadenza/xampp/navi.php\" \"Mozilla/5.0 (Macintosh; Intel Mac OS X
10.9; rv:25.0) Gecko/20100101 Firefox/25.0\"",
    "@timestamp" => "2013-12-11T08:01:45.000Z",
    "@version" => "1",
    "host" => "cadenza",
    "clientip" => "127.0.0.1",
    "ident" => "-",
    "auth" => "-",
    "timestamp" => "11/Dec/2013:00:01:45 -0800",
    "verb" => "GET",
    "request" => "/xampp/status.php",
    "httpversion" => "1.1",
    "response" => "200",
    "bytes" => "3891",
    "referrer" => "\"http://cadenza/xampp/navi.php\"",
    "agent" => "\"Mozilla/5.0 (Macintosh; Intel Mac OS X 10.9; rv:25.0)
Gecko/20100101 Firefox/25.0\""
}
...
```

Fields values can be accessed from within other strings.

```
output {
  file {
    path => "/var/log/%{type}."%{+yyyy.MM.dd.HH}"
  }
}
```

#### 2.16.4.1.2.1 Conditionals

Conditionals act the same as they do in programming languages. Conditionals support if, else if and else statements and can be nested. It support following comparison operators:

- ✓ *equality*: ==, !=, <, >, <=, >=
- ✓ *regexp*: =, !
- ✓ *inclusion*: in, not in

and these boolean operators:

- ✓ *and*
- ✓ *or*
- ✓ *nand*
- ✓ *xor and unary operator*
- ✓ *!*

Examples of conditional uses:



```
output {
  if [loglevel] == "ERROR" and [deployment] == "production" {
    pagerduty {
      ...
    }
  }
}

filter{
  if [foo] in ["hello", "world", "foo"] {
    mutate { add_tag => "field in list" }
  }
}

output {
  if "_grokparsefailure" not in [tags] {
    elasticsearch { ... }
  }
}
```

#### 2.16.4.1.3 3.1.3 Configuration example

```
input {
  file {
    path => "/tmp/access_log"
    start_position => "beginning"
  }
}

filter {
  if [path] =~ "access" {
    mutate { replace => { "type" => "apache_access" } }
    grok {
      match => { "message" => "%{COMBINEDAPACHELOG}" }
    }
  }
  date {
    match => [ "timestamp" , "dd/MMM/yyyy:HH:mm:ss Z" ]
  }
}

output {
  elasticsearch {
    hosts => ["localhost:9200"]
  }
  stdout { codec => rubydebug }
}
```

#### 2.16.4.2 3.2 Settings files

With logstash installation comes a couple of config files:

✓ *logstash.yml*

1. contains config flags, values can be set instead of passing them from command line. [More info.](#)



- ✓ *pipelines.yml*
  1. contains instructions for running multiple pipelines in a single logstash instance. [More info.](#)
- ✓ *jvm.options*
  1. contains jvm configuration flags. Most used for setting heap space.
- ✓ *log4j.properties*
  1. contains settings for log4j. [More info](#)
- ✓ *startup.options*

#### **2.16.4.3 3.3 Configuring logstash for docker**

##### *2.16.4.3.1 3.3.1 Pipeline configuration*

Pipeline configuration should be placed in `"/usr/share/logstash/pipeline/"` which is the default place where container looks for configuration files. Configuration files can be provided by following command:

```
docker run --rm -it -v ~/pipeline:/usr/share/logstash/pipeline/  
docker.elastic.co/logstash/logstash:7.5.0
```

Every file in the host directory `~/pipeline/` will then be parsed by Logstash as pipeline configuration. If no configuration files are provided logstash uses minimal configuration.

##### *2.16.4.3.2 3.3.2 Settings configuration*

Similar to pipeline configuration, settings files are expected to be in `"/usr/share/logstash/config/"` folder. They can also be provided by docker run command:

```
docker run --rm -it -v ~/settings:/usr/share/logstash/config/  
docker.elastic.co/logstash/logstash:7.5.0
```

this command provide whole folder, a single file can also be provided.

##### *2.16.4.3.3 3.3.3 Custom images*

Bind-mounted configuration is not the only option. Custom image with custom configuration can be created using dockerfile:

```
FROM docker.elastic.co/logstash/logstash:7.5.0  
RUN rm -f /usr/share/logstash/pipeline/logstash.conf  
ADD pipeline/ /usr/share/logstash/pipeline/  
ADD config/ /usr/share/logstash/config/
```

Be sure to replace or delete `logstash.conf` in your custom image.

For more info visit [this](#) page.

#### **2.16.5 4.0 Running logstash**



Logstash can be run from command line, as a service or on docker.

#### **2.16.5.1 4.1 Running from command line**

Logstash can be run with a simple command

```
bin/logstash [options]
```

where options are flags that can specified. All options can be specified in logstash.yml file.

#### **2.16.5.2 4.2 Running logstash on docker**

Docker images for logstash are available from the elastic docker registry. Obtaining logstash for docker can be done with following command

```
docker pull docker.elastic.co/logstash/logstash:7.5.0
```

### **2.17 Numbering**

#### **2.17.1 Ordered Lists**

1. First item
2. Second item
3. Third item
  1. Indented item
  2. Indented item
4. Fourth item

#### **2.17.2 Unordered Lists**

- ✓ First item
- ✓ Second item
- ✓ Third item
  1. Indented item
  2. Indented item
- ✓ Fourth item

### **2.18 head**

1. first
2. second

### **2.19 markdown ekstenzija**

#### **2.19.1 drugi heading**



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## 2.20 Reflimages



Figure 5 title ps4



We enable docx-as-code



Figure 6 title amd



# Me:



Figure 7 title bernie

## 2.21 SameHeadingsTest (1)

### 2.21.1 Heading 2

### 2.21.2 Heading 2 (text1)

### 2.21.3 Heading 2 (text2)

## 2.22 Style Guide

**This is a paragraph** . Pellentesque habitant morbi *tristique senectus et netus et malesuada* fames ac turpis egestas. Vestibulum [tortor quam](#), feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Quisque sit amet est et sapien ullamcorper pharetra. Vestibulum erat wisi, condimentum sed, commodo vitae, ornare sit amet, wisi.





### **2.22.1 This is an H1**

Quisque facilisis erat a dui. Nam malesuada ornare dolor. Cras gravida, this is marked text ornare, erat elit consectetur erat, id egestas pede nibh eget odio. Proin tincidunt, velit vel porta elementum, magna diam molestie sapien, non aliquet massa pede eu diam. Aliquam iaculis. Fusce et ipsum et nulla tristique facilisis.

#### **2.22.1.1 This is an H2**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi commodo, ipsum sed pharetra gravida, orci magna rhoncus neque, id pulvinar odio lorem non turpis. Nullam sit amet enim. Suspendisse id velit vitae ligula volutpat condimentum. Aliquam erat volutpat. Sed quis velit. Nulla facilisi. Nulla libero.

##### **2.22.1.1.1 This is an H3**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi commodo, ipsum sed pharetra gravida, orci magna rhoncus neque, id pulvinar odio lorem non turpis. Nullam sit amet enim. Suspendisse id velit vitae ligula volutpat condimentum. Aliquam erat volutpat. Sed quis velit. Nulla facilisi. Nulla libero.

##### **2.22.1.1.1.1 This is an H4**

Quisque facilisis erat a dui. Nam malesuada ornare dolor. Cras gravida, diam sit amet rhoncus ornare, erat elit consectetur erat, id egestas pede nibh eget odio. Proin tincidunt, velit vel porta elementum, magna diam molestie sapien, non aliquet massa pede eu diam. Aliquam iaculis.

#### **2.22.1.2 Quoting**

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

*Creativity is allowing yourself to make mistakes. Design is knowing which ones to keep. - Scott Adams*

---

Morbi commodo, ipsum sed pharetra gravida, orci magna rhoncus neque, id pulvinar odio lorem non turpis. Nullam sit amet enim. Suspendisse id velit vitae ligula volutpat condimentum. Aliquam erat volutpat. Sed quis velit. Nulla facilisi. Nulla libero.

#### **2.22.1.3 Unordered Lists**

- ✓ Donec non tortor in arcu mollis feugiat
- ✓ Lorem ipsum dolor sit amet, consectetur adipiscing elit
- ✓ Donec id eros eget quam aliquam gravida
- ✓ Vivamus convallis urna id felis
- ✓ Nulla porta tempus sapien



#### 2.22.1.4 Ordered Lists

1. Donec non tortor in arcu mollis feugiat
2. Lorem ipsum dolor sit amet, consectetur adipiscing elit
3. Donec id eros eget quam aliquam gravida
4. Vivamus convallis urna id felis
5. Nulla porta tempus sapien

#### 2.22.1.5 Video Embeds

#### 2.22.1.6 Code Blocks

Blocks of code are either fenced by lines with three back-ticks, or are indented with four spaces.

```
<!-- Some example CSS code -->
body {
  color:red;
}

window.$docsify = {
  coverpage: true,

  // Custom file name
  coverpage: 'cover.md',

  // mutiple covers
  coverpage: ['/', '/zh-cn/'],

  // mutiple covers and custom file name
  coverpage: {
    '/': 'cover.md',
    '/zh-cn/': 'cover.md'
  }
};
```

#### 2.22.1.7 Tables

Header content 1

Header content 2

Body content 1

Body content 2

Table 3 Table with thead, tfoot, and tbody

**Note:** Both of the features you used above are parts of the Document Object Model (DOM) API, which allows you to manipulate documents. **Important:** In this article, try entering the example code lines into your JavaScript console to see what happens. For more details on JavaScript consoles, see [Discover browser developer tools](#).

### 2.23 Table (captions)

Colons can be used to align columns.



| Tables        | Are           | Cool   |
|---------------|---------------|--------|
| col 3 is      | right-aligned | \$1600 |
| col 2 is      | centered      | \$12   |
| zebra stripes | are neat      | \$1    |

Table 4 first table caption

There must be at least 3 dashes separating each header cell. The outer pipes (|) are optional, and you don't need to make the raw Markdown line up prettily. You can also use inline Markdown.

| Markdown     | Less    | Pretty |
|--------------|---------|--------|
| <i>Still</i> | renders | nicely |
| 1            | 2       | 3      |

Table 5 second table caption

## 2.24 Table

Colons can be used to align columns.

| Tables        | Are           | Cool   |
|---------------|---------------|--------|
| col 3 is      | right-aligned | \$1600 |
| col 2 is      | centered      | \$12   |
| zebra stripes | are neat      | \$1    |

There must be at least 3 dashes separating each header cell. The outer pipes (|) are optional, and you don't need to make the raw Markdown line up prettily. You can also use inline Markdown.

| Markdown     | Less    | Pretty |
|--------------|---------|--------|
| <i>Still</i> | renders | nicely |
| 1            | 2       | 3      |

## 2.25 Tables

```
|1|2| |-|-| |3|4|
```

text

```
|a|b|c|d| |-|-|-|-| |1|2|3|4| |e|f|g|h| |5|6|7|8|
```



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text

|THIS|is|test|table| | - | - | - | - | |test|test|test|test|

text

This    rand    test  
         om

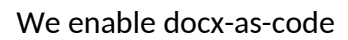
is

test

text

| Tables | Are    | Cool   |
|--------|--------|--------|
| left   | center | \$1600 |
| col 2  | 2      | \$12   |
| c      | 3      | right  |

text



text

93



| Test case ID | Test Scenario                          | Prerequisites                              | Test data                                                                                                                       | Test Steps                                 | Expected results                                                                                                           | Actual results                                                                                                              | Status      | Comments |
|--------------|----------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------|----------|
|              | github                                 |                                            | he will be promoted authorization dialog that was provided by Git API                                                           |                                            | continue with GitLab/hub                                                                                                   | dialog that was provided by Git API                                                                                         |             |          |
| tc_1.1.2.1   | Testing sign in with gitlab and github | Internet browser, github or gitlab account | if user is already Logged in git hub/lab service we should detect that from the browser and automatically fill user credentials | <a href="#">Link to sign in/login page</a> | 1.Go to your GitLab/Hub account and log in 2. Click on provided link to Puzzles Cloud 2. Click on continue with GitLab/Hub | To detect that I am logged in with GitLab/hub and to automatically fill in my credentials                                   | As expected | pass     |
| tc_1.1.3     | Testing sign in with gitlab and github | Internet browser, github or gitlab account | User should be informed what information will Puzzles Cloud use from his GIT account                                            | <a href="#">Link to sign in/login page</a> | 1.Go to your GitLab/Hub account and log in 2. Click on provided link to Puzzles Cloud 3. Click on continue with GitLab/Hub | Same as tc_1.1.2.1 ,just to expect to see pop up window provided by Puzzles Cloud that inform us about our information that | As expected | pass     |



| Test case ID | Test Scenario                          | Prerequisites                              | Test data                                                                                                                                                                       | Test Steps                                 | Expected results                                                                                                              | Actual results                                                                                                            | Status      | Comments |
|--------------|----------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------|----------|
|              |                                        |                                            |                                                                                                                                                                                 |                                            |                                                                                                                               | will be used                                                                                                              |             |          |
| tc_1.1.4     | Testing sign in with gitlab and github | Internet browser, github or gitlab account | For v1 in pop up that appears when user clicks to sign up user should NOT select repository that he want's to use, he should do that within the app when authorisation is done. | <a href="#">Link to sign in/login page</a> | 1.Go to your GitLab/Hub account and log in 2. Click on provided link to Puzzles Cloud 2. Click on continue with GitLab/Hub    | Pop up shows only information that will be used, no option to select repository until successful login into Puzzles Cloud | As expected | pass     |
| tc_1.1.5     | Testing sign in with gitlab and github | Internet browser, github or gitlab account | When sign up with git is done application should send welcome email to the user and show him dashboard view                                                                     | <a href="#">Link to sign in/login page</a> | 1. Go to your email that is connected with GIT and check for email from Puzzles cloud 2. Go to puzzles cloud page that you've | To see email from Puzzles Cloud and to see dashboard on Puzzles Cloud site                                                | As expected | pass     |



We enable docx-as-code

| Test case ID | Test Scenario | Prerequisites | Test data | Test Steps           | Expected results                 | Actual results | Status | Comments |
|--------------|---------------|---------------|-----------|----------------------|----------------------------------|----------------|--------|----------|
| text text    |               |               |           |                      | been redirected after signing in |                |        |          |
| test         | test          | test          |           | <a href="#">test</a> | TEST                             | TEST           | TEST   | TEST     |
| 1            | 1             | 1             |           | 1.001                |                                  |                |        |          |
| 2            | 2             | 2             |           | !@#\$%^&*()_+        |                                  |                |        |          |
| 3            | 3             | 3             |           | ~~~~~                |                                  |                |        |          |
| 4            | 4             | 4             |           | smth                 |                                  |                |        |          |
| 5            | 5             | 5             |           | text                 |                                  |                |        |          |
| 6            | 6             | 6             |           | <b>bold text</b>     |                                  |                |        |          |
| 7            | 7             | 7             |           |                      |                                  |                |        |          |
| 8            | 8             | 8             |           | The world is flat.   |                                  |                |        |          |
| 9            | 9             | 9             |           |                      |                                  |                |        |          |





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Figure 8: Last Page