

# Testing Specification

# Medaware

by Haas, Clarissa Patak, Rastislav Sam, Elias Wyrwas, Piotr

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# 1 USERSTORY — 5.1.1 Intuitive frontend design

## 1.1 Test Case 1 - [VID] intuitive landing page and easy navigation

TEST CASE	Intuitive frontend design and easy navigation
DESCRIPTION	The visitors' page is as minimal as possible, designed with acces-
	sibility and optimal usability in mind.
TEST REQUIREMENTS	A functional frontend that is available for testing. A test user
	unfamiliar with the system is selected.
INPUT	None
TEST PROCEDURE / STEPS	The test user opens the landing page. They attempt to locate key
	sections, such as the homepage, about page, contact, without
	external guidance. They provide feedback on ease of use and
	accessibility.
EXPECTED OUTCOME	The test user successfully navigates the site without confusion, as
	the key sections are easily accessible and identifiable. Then the
	design is confirmed as intuitive and user-friendly.

## 2 USERSTORY — 5.1.2 GHS hazard pictogram classification

## 2.1 Test Case 2 - [OCR] 180° rotated GHS pictograms

TEST CASE	180° rotated GHS pictograms
DESCRIPTION	It is possible to detect GHS hazard pictograms which are rotated
	by 180°.
TEST REQUIREMENTS	The ocr server has to be running; The edpoint /ocr/cnn at the
	ocr server has to work properly; The CNN has to be implemented
	and trained;
INPUT	
GENERAL:	An image of a GHS pictogram which is upside down (rotated by
	$180^{\circ} \text{ or } \pi \text{ rad}$ ).
CONCRETE:	ghs_test_image_exclamation_mark_rotated_180_degree.jpeg
TEST PROCEDURE / STEPS	An Administrator tests the /ocr/cnn endpoint with e.g. postman.
	Therefore the admin upload an image of a GHS pictogram which
	is routed by 180° or $\pi$ rad as form-data and send the post request.
	After the admin received the response he/she checks if the re-
	sponded awnser is correct. (For further reading about the format
	of api requests look into the ORC OpenAPI-specification.)
EXPECTED OUTCOME	
GENERAL:	The name of the uploaded GHS pictogram.
CONCRETE:	The name attribute at the response have to contain the label:
	Health Hazard/Hazardous to Ozone Layer.

## 2.2 Test Case 3 - [OCR] $360^\circ$ rotated GHS pictograms

MEGM CAGE	2000 4 4 1 0110 3 4
TEST CASE	360° rotated GHS pictograms
DESCRIPTION	It is possible to detect GHS hazard pictograms which are not
	rotated.
TEST REQUIREMENTS	The OCR server has to be running; The edpoint /ocr/cnn at the
	ocr server has to work properly; The CNN has to be implemented
	and trained;
INPUT	
GENERAL:	An image of a GHS pictogram which is in the "normal" position
	(not rotated).
	(1100 10000000)
CONCRETE:	who test image evalemention many incom
	ghs_test_image_exclamation_mark.jpeg
TEST PROCEDURE / STEPS	An Administrator tests the /ocr/cnn endpoint with e.g. post-
	man. Therefore the admin upload an image of a GHS pictogram
	which is rotated by $360^{\circ}$ or $2\pi$ rad as form-data and send the post
	request. After the admin received the response he/she checks if
	the responded awnser is correct. (For further reading about the
	format of api requests look into the OCR OpenAPI-specification)
EXPECTED OUTCOME	isimas si api isquess ison mas sho o oit opomir i spoomeasion)
GENERAL:	The name of the uploaded GHS pictogram.
GENERAL.	The name of the uploaded GHS pictogram.
CONCRETE	
CONCRETE:	The name attribute at the response has to contain the label:
	Health Hazard/Hazardous to Ozone Layer.

## 2.3 Test Case 4 - Experimental Test Case [OCR] $90^{\circ}$ rotated GHS pictograms

TEST CASE	Experimental Test Case 90° rotated GHS pictograms
DESCRIPTION	We want to know what happes if a GHS hazard pictograms which
	is rotated by 90° is processed. So this is an experimental test
	where very result is acceptable except of an exception.
TEST REQUIREMENTS	The OCR server has to be running; The edpoint /ocr/cnn at the
	OCR server has to work properly; The CNN has to be imple-
	mented and trained;
INPUT	
GENERAL:	An image of a GHS pictogram which is rotated by 90° (or $\frac{\pi}{2}$ rad).
	2 ,
CONCRETE:	ghs_test_image_exclamation_mark_rotated_90_degree.jpeg
TEST PROCEDURE / STEPS	An Administrator tests the /ocr/cnn endpoint with e.g. postman.
	Therefore the admin upload an image of a GHS pictogram which
	is routed by 180° or $\pi$ rad as form-data and send the post request.
	After the admin received the response he/she checks if the re-
	sponded awnser is correct. (For further reading about the format
	of api requests look into the ORC OpenAPI-specification.)
EXPECTED OUTCOME	To receive a response but it doesn't matter what stands in the
	name attribute.

## 2.4 Test Case 5 - [OCR] UI only permits images

TEST CASE	UI only permits images (.jpg, .jpeg, .png, .tiff).
DESCRIPTION	The UI only permits uploading image files.
TEST REQUIREMENTS	A finished or usable UI page for uploading GHS pictograms.
INPUT	
GENERAL:	A File with an image extension (.jpg, .jpeg, .png, .tiff).
CONCRETE:	<pre>ghs_test_image_exclamation_mark_rotated_180_degree.jpeg</pre>
TEST PROCEDURE / STEPS	A user uploads the file with an image extension.
EXPECTED OUTCOME	The upload works without getting a message that this datatype
	is not supported or another error-message and a preview of the
	image which was uploaded is shown.

## 2.5 $\,$ Test Case 6 - [OCR] UI denies other files than an image

TEST CASE	UI denies other files than images.
DESCRIPTION	The UI denies uploading other files that are not an image. (e.g.
	.pdf, .docx, .txt, .md, .tex ,)
TEST REQUIREMENTS	A finished or usable UI page for uploading GHS pictograms.
INPUT	
GENERAL:	A file with an other ending than an image. (e.g. a pdf file)
CONCRETE:	pdf_test_file.pdf
TEST PROCEDURE / STEPS	A user uploads the file with a other ending.
EXPECTED OUTCOME	The upload does not work. That means that an error message is
	displayed that somehow indicates that the upload is not working.

## 2.6 Test Case 7 - [OCR] UI shows a loading spinner

TEST CASE	UI shows a loading spinner
DESCRIPTION	After a valid file was uploaded and during the backend processes
	the data a loading spinner should be displayed.
TEST REQUIREMENTS	A finished or usable UI page for uploading GHS pictograms.
INPUT	
GENERAL:	A valid file (= an image).
CONCRETE:	ghs_test_image_exclamation_mark.jpeg
TEST PROCEDURE / STEPS	A user uploads the image and while the backend is processing the
	data a loader should be displayed.
EXPECTED OUTCOME	Somewhere on the page where you can upload the GHS pictograms
	a loading spinner is displayed during the backend is processing the
	data.

## 2.7 $\,$ Test Case 8 - [OCR] UI shows an image preview

TEST CASE	UI shows an image preview
DESCRIPTION	A vaild file is uploaded and a preview is shown.
TEST REQUIREMENTS	A finished or usable UI page for uploading GHS pictograms.
INPUT	
GENERAL:	A valid file (= an image).
CONCRETE:	<pre>ghs_test_image_exclamation_mark.jpeg</pre>
TEST PROCEDURE / STEPS	A user uploads the image.
EXPECTED OUTCOME	Somewhere on the page a preview of the image is displayed.

## 3 USERSTORY — 5.1.3 OCR ingredient "detection"

## 3.1 Test Case 9 - [OCR] Catalyst finds 70% matching word

TEST CASE	Catalyst finds 70% matching word.
DESCRIPTION	It is possible to recognize 70% of the correctly spelled (correctly
	detected) words in the search.
TEST REQUIREMENTS	Catalyst has to be running; The database has to be running; Cat-
	alyst is connected to the database; The specific method is imple-
	mented;
INPUT	
GENERAL:	A text which is to 30 % wrong spelled. (e.g. Hollo Warlt.)
CONCRETE:	Hollo Warlt
TEST PROCEDURE / STEPS	Pass the word to the method which processes the text from images
	and finds it in the DB.
EXPECTED OUTCOME	
GENERAL:	The information which is stored to the ingredient (e.g. to the
	ingredient "Hello World").

## 3.2 $\,$ Test Case 10 - [OCR] Catalyst finds 100% matching word

TEST CASE	Catalyst finds 100% matching word.
DESCRIPTION	It is possible to recognize 70% of the correctly spelled (correctly
	detected) words in the search. So it should also find words which
	are completly correctly spelled.
TEST REQUIREMENTS	Catalyst has to be running; The database has to be running; Cat-
	alyst is connected to the database; The specific method is imple-
	mented;
INPUT	
GENERAL:	A text which is an ingredient which is exactly written like in the
	database.
CONCRETE:	Hello World
TEST PROCEDURE / STEPS	Pass the word to the method which processes the text from images
	and finds it in the DB.
EXPECTED OUTCOME	
GENERAL:	The inforantion which is stored to the ingredient.
CONCRETE:	The information which is stored to the ingredient "Hello World."

## 3.3 Test Case 11 - [OCR] Catalyst don't find 20% matching word

TEST CASE	Catalyst doesn't find 20% of the matching words.
DESCRIPTION	It is possible to recognize 70% of the correctly spelled (correctly
	detected) words in the search. So it doesn't have to be possible
	to find words that are only 20% correctly spelled.
TEST REQUIREMENTS	Catalyst has to be running; The database has to be running; Cat-
	alyst is connected to the database; The specific method is imple-
	mented;
INPUT	
GENERAL:	A text which is to 80 % wrong spelled. (e.g. Hoffa Varft.)
CONCRETE:	Hoffa Varft (the original word would be Hello World)
TEST PROCEDURE / STEPS	Pass the word to the method which processes the text from images
	and finds it in the DB.
EXPECTED OUTCOME	No information is found to the word in the DB. So no inforantion
	are returned.

## 3.4~ Test Case 12 - [OCR] OCR reads the text of the image

TEST CASE	OCR reads the text of the image.
DESCRIPTION	The OCR server reads the text from an image.
TEST REQUIREMENTS	The ocr server has to be running; The edpoint /ocr/ at the ocr
	server has to work properly;
INPUT	
GENERAL:	An image with chemical ingredients on it.
CONCRETE:	ocr_ingredient_test_file.jpeg
TEST PROCEDURE / STEPS	An administrator uploads the valid file to the OCR-Server which
	extracts the text on it.
EXPECTED OUTCOME	A similar text which is standing on the image. (In this case similar
	means that is understandable/readable for humans.)

## 3.5 Test Case 13 - [OCR] UI shows a loading spinner

TEST CASE	UI shows a loading spinner
DESCRIPTION	After a valid file was uploaded and during the backend processes
	the data a loading spinner should be displayed.
TEST REQUIREMENTS	A finished or usable UI page for uploading GHS pictograms.
INPUT	
GENERAL:	A valid file (= an image).
CONCRETE:	<pre>ghs_test_image_exclamation_mark.jpeg</pre>
TEST PROCEDURE / STEPS	A user uploads the image and while the backend is processing the
TEST PROCEDURE / STEPS	9 9
TEST PROCEDURE / STEPS  EXPECTED OUTCOME	A user uploads the image and while the backend is processing the
,	A user uploads the image and while the backend is processing the data a loader should be displayed.

# 3.6 $\,$ Test Case 14 - [OCR] UI shows an image preview

TEST CASE	UI shows an image preview
DESCRIPTION	A vaild file is uploaded and a preview is shown.
TEST REQUIREMENTS	A finished or usable UI page for uploading GHS pictograms.
INPUT	
GENERAL:	A valid file $(= an image)$ .
CONCRETE:	<pre>ghs_test_image_exclamation_mark.jpeg</pre>
TEST PROCEDURE / STEPS	A user uploads the image.
EXPECTED OUTCOME	Somewhere on the page a preview of the image is displayed.

# 4 USERSTORY — 5.1.4 Search Articles

## 4.1 Test Case 15 - [TAN] Search system is avaliable

TEST CASE	Is the search system avaliable
DESCRIPTION	Testing if the search system is functional in the VIR - frontend
TEST REQUIREMENTS	Frontend and search system reachable. A test user is selected.
INPUT	Search term
TEST PROCEDURE / STEPS	The test user writes a term, e.g. "Sodium Hydroxide" into the
	searchbar and clicks on the "Search" button.
EXPECTED OUTCOME	The interface should then display all articles which match the
	search term literally — if the search term is a substring of the
	article content — or logically — if the article matches the search
	term according to a semantic analysis.

## 5 USERSTORY — 5.2.1 Content Management System availability

## 5.1 Test Case 16 - [TAN] Tangential is avaliable

TEST CASE	Is the tangential service avaliable
DESCRIPTION	Testing if tangential is functional and reachable
TEST REQUIREMENTS	Catalyst has to be running; The Tangential service has to be run-
	ning; Tangential has to be seperate from the frontend
INPUT	
TEST PROCEDURE / STEPS	A test user executes the following Unix shell command:
	curl -o /dev/null -s -w "%{http_code}" <url></url>
	Where URL is the web URL of the current deployment.
EXPECTED OUTCOME	Tangential accessible; The aforementioned command returns the
	status code 200

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TEST CASE	Tangential allows for user management
DESCRIPTION	Testing if tangential allows to maintain and manage users
TEST REQUIREMENTS	Catalyst has to be running; The Tangential service has to be run-
	ning and reachable;
INPUT	Edit Info on users
TEST PROCEDURE / STEPS	The Tangential interface is accessed by a test person through a
	URL. They enter the user management section through a tab
	on the left-hand side of the viewport, upon which they click the
	"Edit" button on one of the entries. Thereafter, the test user
	alters the value of the text fields representing the first and last
	names of the user, after which they press the "Save" button.
EXPECTED OUTCOME	Upon returning to the user list, the values of the altered fields
	have indeed changed.

## 6 USERSTORY — 5.2.2 Topic Management

### 6.1 Test Case 18 - [TAN] Tangential is equipped with a "Topics" tab

TEST CASE	The Tangential dashboard sidebar contains a "Topics" section.
DESCRIPTION	The Tangential system is equipped with a dedicated section for
	managing topics.
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running.
INPUT	None
TEST PROCEDURE / STEPS	A beta-tester examines the left-hand side of the Tangential dash-
	board in search for a "Topics" tab.
EXPECTED OUTCOME	The tester determines that the dashboard contains a dedicated
	topic management section.

## 6.2 Test Case 19 - [TAN] Behaviour of the "Topics" view

TEST CASE	The "Topics" view lists all existing topics
DESCRIPTION	The "Topics" panel reveals a listing of all existing topics
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running.
INPUT	None
TEST PROCEDURE / STEPS	A beta-tester enters the "Topics" view by clicking on the "Topics"
	panel on the left-hand side panel.
EXPECTED OUTCOME	They are presented with a list of all topics which were returned
	from the backend server.

### 6.3 Test Case 20 - [TAN] The "Topics" view permits CRUD operations on topics

TEST CASE	The "Topics" tab implements CRUD operations.
DESCRIPTION	The "Topics" panel allows the user to perform CRUD operations
	on the topics
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running.
INPUT	None
TEST PROCEDURE / STEPS	A beta-tester examines the "Topics" dashboard.
EXPECTED OUTCOME	The tester determines that the "Topics" view allows for <i>creating</i> ,
	updating and deleting topics through appropriately labelled but-
	tons.

## 6.4 Test Case 21 - [TAN] Removing a topic triggers a fallback topic prompt

TEST CASE	Attempting to remove a Topic triggers a dialogue
DESCRIPTION	When the user attempts to delete a Topic, a dialogue prompts the
	user to pick a fallback topic.
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running.
INPUT	None
TEST PROCEDURE / STEPS	A beta-tester attempts the removal of a topic.
EXPECTED OUTCOME	The tester determines that the action triggers the expected dia-
	logue.

# 6.5 $\,$ Test Case 22 - [TAN] Topic creation button is present

TEST CASE	A topic creation button ("Add") is located in the top right corner.
DESCRIPTION	
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running.
INPUT	None
TEST PROCEDURE / STEPS	A beta-tester examines the "Topics" view.
EXPECTED OUTCOME	The tester determines that an "Add" button is located in the
	upper right-hand side corner.

## 7 USERSTORY — 5.2.3 Dedicated Articles Panel

### 7.1 Test Case 23 - [TAN] Tangential is equipped with an "Articles" panel

TEST CASE	The Tangential dashboard sidebar contains an "Article" section.
DESCRIPTION	The Tangential system is equipped with a dedicated section for
	managing articles.
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running.
INPUT	None
TEST PROCEDURE / STEPS	A beta-tester examines the sidebar on the left-hand side of the
	Tangential dashboard.
EXPECTED OUTCOME	The tester determines that the sidebar contains an "Articles" tab.

## 7.2 Test Case 24 - [TAN] Behaviour of the "Articles" Panel

TEST CASE	The "Articles" panel reveals a listing of Articles.
DESCRIPTION	By default, the "Articles" panel displays a list of existing articles.
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running.
INPUT	None
TEST PROCEDURE / STEPS	A beta-tester clicks on the "Articles" tab in the sidebar.
EXPECTED OUTCOME	The tester determines that they are presented with a list of articles
	upon clicking the "Articles" tab.

## 7.3 Test Case 25 - [TAN] Article display behavior

TEST CASE	The behavior of the Article listing can be changed.
DESCRIPTION	The article listing in the "Articles" tab can be switched between
	displaying all articles, or only the articles authored by the logged-
	in user.
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running.
INPUT	None
TEST PROCEDURE / STEPS	A beta-tester switches the display type through a bistate mode
	selector in the Article listing view.
EXPECTED OUTCOME	The tester determines that the Article listing properly responds
	to changes in the display mode.

## 8 USERSTORY — 5.3.1 Article Editor Overview

## 8.1 Test Case 26 - [TAN] Tangential Dashboard Permits CRUD Operations

TEST CASE	CRUD functionality in the TAN dashboard
DESCRIPTION	The Tangential dashboard allows for performing CRUD opera-
	tions on articles.
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running.
INPUT	None
TEST PROCEDURE / STEPS	A beta-tester examines the available options for article entries in
	the Tangential dashboard.
EXPECTED OUTCOME	The tester concludes that the Tangential system allows for <i>cre-</i>
	ating, deleting and editing articles through appropriately labelled
	buttons next to each entry.

# 9 USERSTORY 5.3.2 — Creating Components

## 9.1 Test Case 27 - [TAN] Component Creation Button

TEST CASE	Creating components is accessible through a button
DESCRIPTION	New components can be created with the help of a button in the
	WYSIWYG editor
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running
INPUT	None
TEST PROCEDURE / STEPS	A beta tester examines the Tangential editor to establish the pres-
	ence of the required functionality.
EXPECTED OUTCOME	The beta tester confirms that the editor does indeed allow for
	adding new components with a generic "Add" button

## 9.2 Test Case 28 - [TAN] Component Creation Dialog

TEST CASE	Creating component triggers a UI dialogue
DESCRIPTION	A UI dialogue pops up upon invoking the component creation
	process.
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running
INPUT	None
TEST PROCEDURE / STEPS	A beta tester clicks on the "Add" button in the Tangential WYSI-
	WYG UI.
EXPECTED OUTCOME	The beta tester confirms that the aforementioned action triggers
	a dialogue prompting the user for a component identifier.

## 9.3 Test Case 29 - [TAN] Reactive Interface

TEST CASE	Preview updates according on any change
DESCRIPTION	Creating a new component triggers the preview to re-render.
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running
INPUT	None
TEST PROCEDURE / STEPS	A beta tester examines the Tangential editor; They create a new
	image component and check whether the change is reflected in the
	rendered preview.
EXPECTED OUTCOME	The beta tester confirms that the preview refreshed upon a change
	to the component structure.

## 10 USERSTORY 5.3.3 — Editing Components

## 10.1 Test Case 30 - [TAN] Controlling component parameters

TEST CASE	Component parameters can [individually] be altered
DESCRIPTION	The parameters of each component can be changed in the Tan-
	gential system
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running
INPUT	None
TEST PROCEDURE / STEPS	An experienced beta tester is selected. They enter the WYSI-
	WYG editor of a random article. Thereafter, they select a <b>head-</b>
	ing component from the left-hand side sidebar and switch to the
	"Properties" tab.
EXPECTED OUTCOME	The tester is presented with a list of properties for the selected
	component, mainly ELEMENT_TYPE and TEXT

### 10.2 Test Case 31 - [TAN] Selected Component Highlighting

TEST CASE	Highlighting selected components
DESCRIPTION	Selected article components are highlighted in the view
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running
INPUT	None
TEST PROCEDURE / STEPS	A beta tester opens an article in the WYSIWYG editor and selects
	random components.
EXPECTED OUTCOME	The beta tester confirms that the view representation of the se-
	lected components is visually highlighted upon being selected.

## 10.3 Test Case 32 - [TAN] Component Properties Panel Visibility

TEST CASE	Conditional visibility of the component properties panel
DESCRIPTION	Component visibility panel is triggered by a component being se-
	lected
TEST REQUIREMENTS	The Tangential system (including Catalyst) is up and running
INPUT	None
TEST PROCEDURE / STEPS	A beta tester opens an article in the WYSIWYG editor and selects
	a random component whilst examining the left-hand side part of
	the view.
EXPECTED OUTCOME	The beta tester confirms that the property panel is only visible
	when a component is selected.