The generic exhibition platform

Guidebook

License

"generic platform" - Open Source Third-Party Software Licenses

"generic platform" incorporates the use of third-party open source software components, each governed by its respective license agreement.

Please note that the licenses of all third-party software components may impose certain rights and obligations upon you as a user. It is your responsibility to review and comply with the terms of each license.

The use of "generic platform" implies your acceptance of the terms and conditions specified by the licenses of the incorporated third-party software components.

"generic platform" - Open Source License

"generic platform" is licensed under the MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files including all demo assets like images or 3d artwork (the ""generic platform""), to deal in the "generic platform" without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the "generic platform", and to permit persons to whom the "generic platform" is furnished to do so, subject to the following conditions: https://opensource.org/license/mit/

Table of contents

1. Introduction	3
2. Interaction concept	3
3. Recommender system and gravity-based reshuffling system	4
4. Preparing 3D Assets for upload into the generic exhibition platform	5
4.1. Positioning	5
4.2. Light and complexity of 3D models	5
5. Uploading 3D assets via CMS	6
6. Existing URL parameters	8
7. Special naming convention	9

1. Introduction

This document explains the core concept of the generic exhibition platform, which emerged in the framework of the practice-based research project Beyond Matter (2019-2023). In addition, it should provide operating instructions on how to prepare and upload (3D) assets into the scene of the **3D exhibition model**.

2. Interaction concept

The technical spatial concept consists of two central elements, the Collider Zone and the Activity Zone.



The **Collider Zone** defines the distance between the elements and the neutral space where no interaction takes place (profiling, reshuffling, availability of exhibit information).



The **Activity Zone** functions as trigger for the interactions (profiling, reshuffling, availability of exhibit information)

3. Recommender system and gravity-based reshuffling system



4. Preparing 3D Assets for upload into the generic exhibition platform

4.1. Positioning



4.2. Light and complexity of 3D models



- There is no directional light in the scene for performance reasons. We recommend using baked textures for good results.
- As there is no directional light there is also no floor shadow. We recommend using baked floor shadows for good results.
- For performance reasons the amount of polygons and the size of the textures should be adequate.

5. Uploading 3D assets via CMS

Exhibition Items list + Create New Exhibition Item	Select "Create New Exhibition Item" in the CMS to create a new assembly of exhibits.
Back to list of Exhibition Items Create new Exhibition Item General General Hide this Exhibition Item Name*: Durfule position and rotation via*: Custom Input Submit Back to list of Exhibition Items	 Name the exhibition item Select "3D File Upload" to define the position. Use the file "item_x_circle" explained in 4.1 By selecting "Hide this Exhibition Item" the item will not be visible in the scene. It will be visible under the parameter "/?preview=1". Select "Submit" to create the item

Back to list of Exhibition Items Edit Exhibition Item '#310' General Tags Artworks Related Artworks of Exhibition Item: none + Add Artwork to Group Back to list of Exhibition Items	 Select "Add Artwork to Group" to add a group of exhibits.
CREATE artwork	 Select "Choose file" at "3D file" to upload an assembly in the GLB format. 4.1 it describes how to prepare it. There is the possibility to add the same assembly in high resolution. By selecting"Choose file" at "High Resolution 3D file" and activate "Orbit" under "Detail View", the action "artwork single view" will be indicated in the frontend. By choosing this action the high resolution file with orbit controls can be viewed.
Back to group-item EDIT artwork #565 General Info-Layers Related Info-Layers of Artwork Item: none + Add Layer to Artwork Back to group-item	 Select "Add Layer to Artwork" to create an Info Layer for the artwork. Text, images and Vimeo links can be added here.

Back to list of Exhibition Items Edit Exhibition It General Tags Artworks	em '#310'	 Under "Tags", the profile of the exhibition item can be defined by awarding a value between 0-10 to the tags (they are hardcoded in the backend).
Tags Overview		
Tag #1:	Tag weight (1-10):	
Choose a tag	• 0	
	Tag weight (1-10)	
Tag #2:	lag weight (1-10).	
Tag #2: Choose a tag	• 0	
Tag #2: Choose a tag Tag #3:	Image: state sta	

6. Existing URL parameters

e icono	 With the parameter "/?physic=1" you can
clash IIII D	visualize the physics, like for example
iiii D	collider boxes and trigger.
background lighting i ground autwork aortrolis physic ourdl controls fordite controls Clase Controls ACTIVATING GRAVITY-BASED RESHUFFLING	 With the parameter "/?gui=1" you can play around with the colours and the gravity- based reshuffling settings for example.



7. Special naming convention

