Bauhaus-Universität Weimar

IDMC - Interface Design Masterclass

Interactive Media Facade

Presented By

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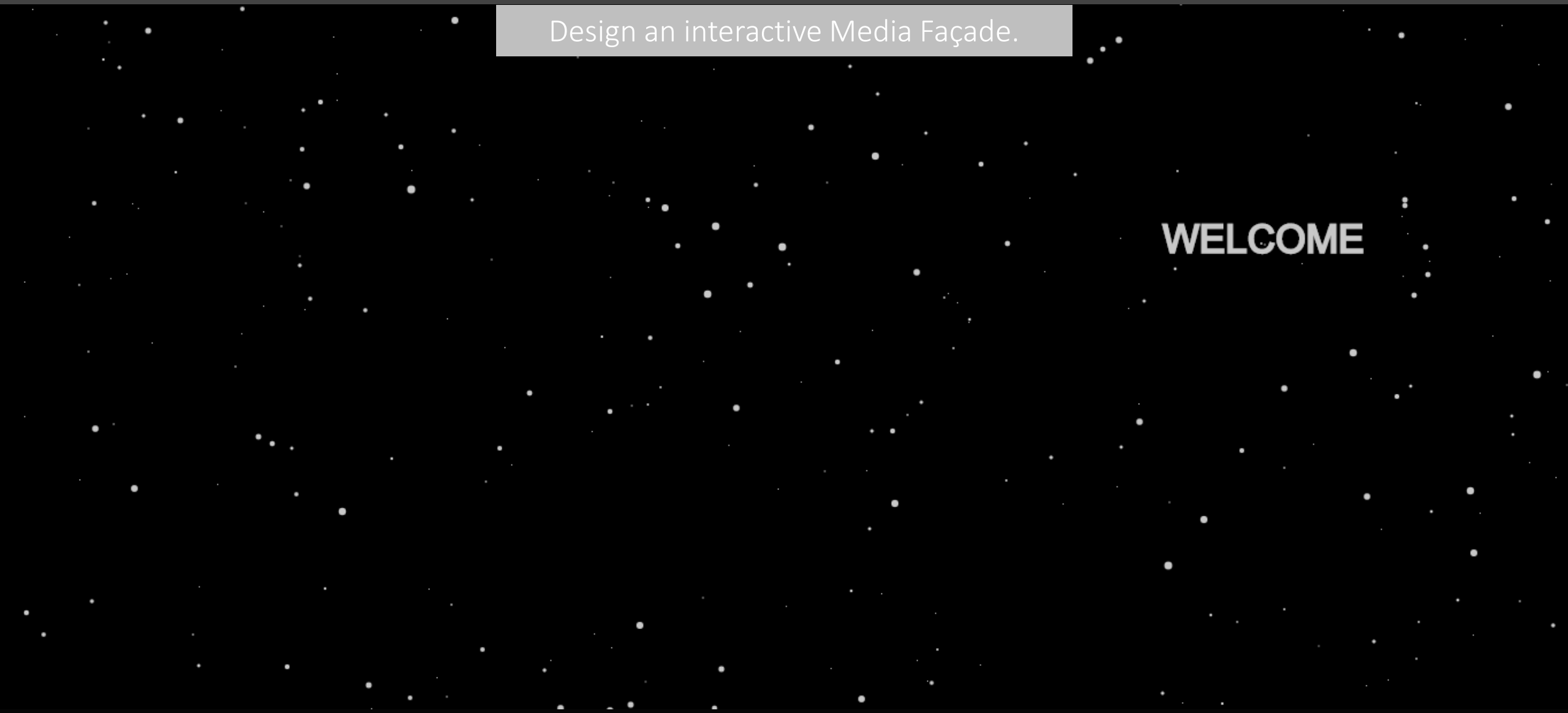
Presented To

Prof Dr Jens Geelhaar

Concept

Design an interactive Media Façade.



Concept

People can interact with the facade through accessing the designed website from Mobile phones, Laptop, Tablets,..

Concept

Prototype

People can share their thoughts through texting a message.

Concept

Prototype

Where can it be displayed & When

Where

- It could be displayed outdoor and indoor.
- Outdoor like building façade.

Building of 3 – 4 floors (8-15m) to be comfy for the user eyes.

- Indoor like events or exhibition hall façade.

When

A temporary **Media Façade** Projection for Advertisements, Events, Festivals,…

Who can join

- People from all the ages who can access the internet
- It also depend on the projecting content.

How could it Technically realized

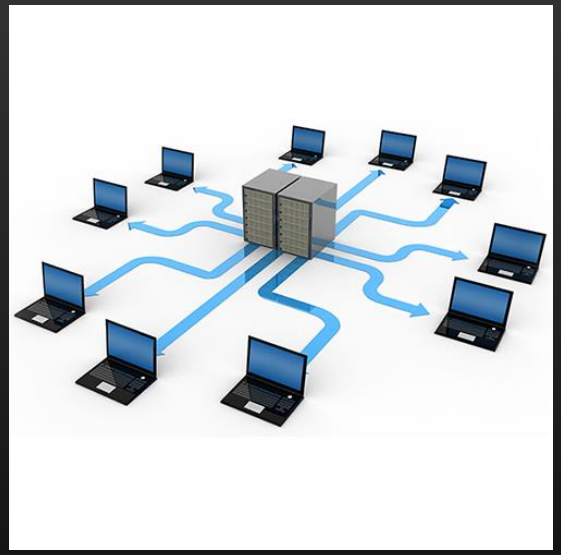
How

Design the displayed sketch on processing javascript P5.js

Which allow the combination between designing a interactive sketch and HTML JavaScript

How could it Technically realized

How

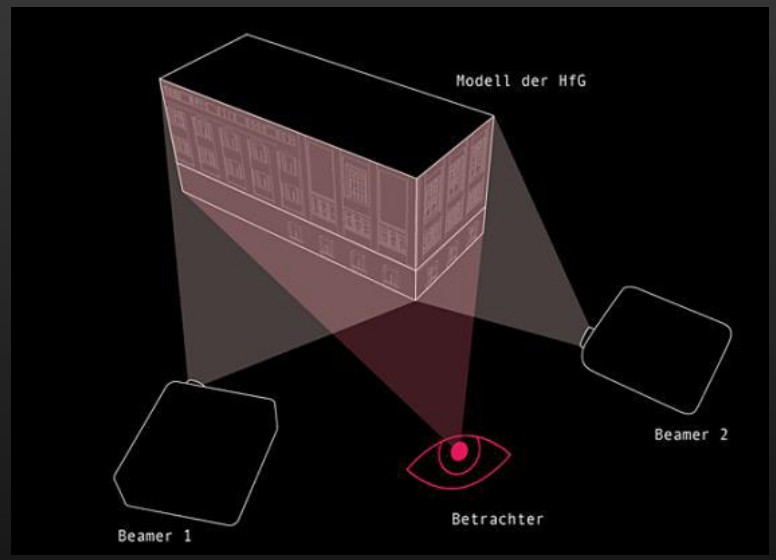


Creating an HTTPs server using Node.js that can listen to the HTML file where the interactive sketch already Uploaded

How could it Technically realized

How

People can interact
through accessing the URL



The Sketch could be projected and displayed by DLP 3 chips projectors on the selected building

How could it Technically realized

For Events & Festivals

UNIVERSITÄTSBIBLIOTHEK DER BAUHAUS

- Location: Wielandplatz, Weimar
- Suitable place for events and festivals because of being a library
- So it could be suitable for cultural, educational and historical events

Chosen Buildings to apply on

How could it Technically realized

Chosen Buildings to apply on

For Events & Festivals

UNIVERSITÄTSBIBLIOTHEK DER BAUHAUS

- 3 floors building.
- The selected area to project over about 8 m height and 15 m width.
- Grey painted Façade.
- Grey screens are preferable than white screens because the grey can absorb more of the ambient light and improve contrast.

How could it Technically realized

Chosen Buildings to apply on

UNIVERSITÄTSBIBLIOTHEK DER BAUHAUS

- The front area to project from about 12 m

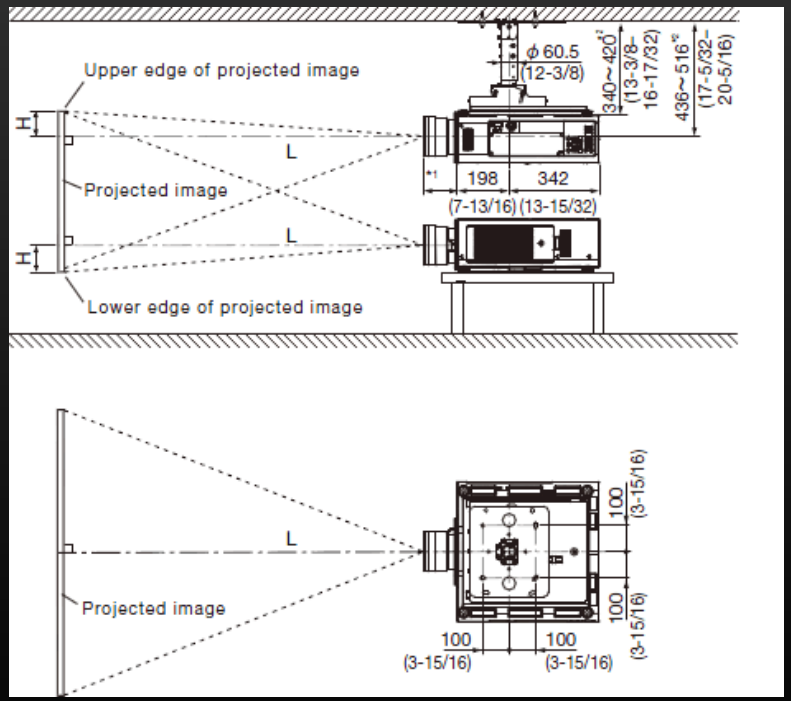
How could it Technically realized

UNIVERSITÄTSBIBLIOTHEK DER BAUHAUS

Selected projector

Name	PT-DS 12k (Panasonic)
Lens	ET-D75LE8
Brightness	12000 ANSI Lumen
Contrast	10,000:1 (full on/off, with DYNAMIC IRIS set to "3")
Resolution	1,400 x 1,050 pixels
Aspect Ratio	4:3
Technology	3 x DLP Chip
Throw Ratio	Lens optional
Screen illuminance	300 lx
[Projection distance]	L: 7,423–8,888 mm / 292.2–349.9 in / 24.35–29.16 ft
Dimensions (W x H x D)	530 x 200*8 x 548.5 mm

Chosen Buildings to apply on



How could it Technically realized

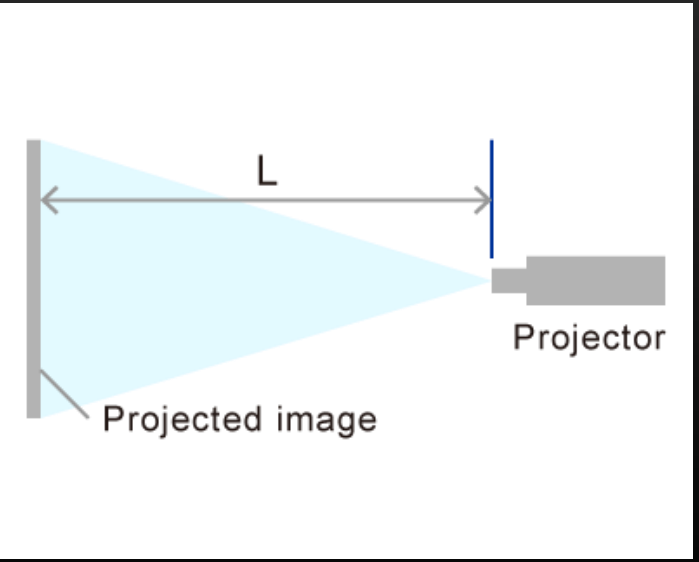
Chosen Buildings to apply on

UNIVERSITÄTSBIBLIOTHEK DER BAUHAUS

Selected projector

Manufacturer Panasonic
Condition Used
Lamp Hours 1181
Projector Hours 8294
Price 6666,00€

Name	PT-DZ12000 (Panasonic)
Lens	ET-D75LE6
Brightness	12000 ANSI Lumen
Contrast	5000:1
Resolution	1920x1200
Aspect Ratio	16:10
Technology	3 x DLP Chip
Throw Ratio	Lens optional
Screen illuminance	300 lx
[Projection distance]	L: 7,423–8,888 mm / 292.2–349.9 in / 24.35–29.16 ft
Dimensions	8,000 mm x 5000 mm x 9,434mm



How could it Technically realized

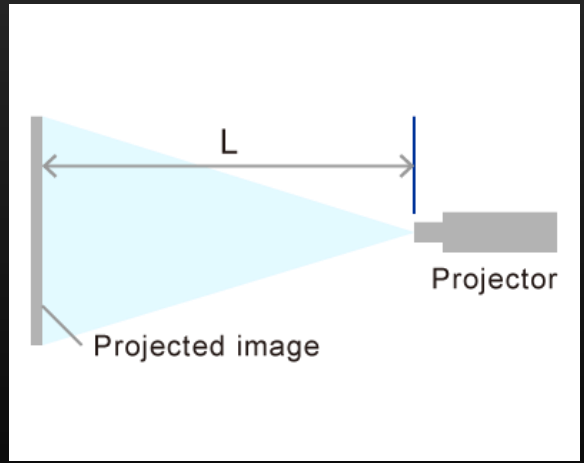
Chosen Buildings to apply on

UNIVERSITÄTSBIBLIOTHEK DER BAUHAUS

Selected projector

Manufacturer Barco
Condition Used
Lamp Hours 223
Projector Hours 3266
Price 3999,00 €

Name	SLM R12 Barco
Brightness	11500 ANSI Lumen
Contrast	1600:1
Resolution	1400x1050
Aspect Ratio	4:3
Technology	3 x DLP Chip
Throw Ratio	Lens optional
Lamp Life	800 hours
Lamp Output	2200 W
Special Characteristics	lens shift, Edge Blending, Eco-Mode, interchangeable Lenses
Dimensions	58.42cm x 42.93cm x 87.63cm



How could it Technically realized

Chosen Buildings to apply on

UNIVERSITÄTSBIBLIOTHEK DER BAUHAUS

- Installing one projector could cover this screen with diagonal 17.21 m

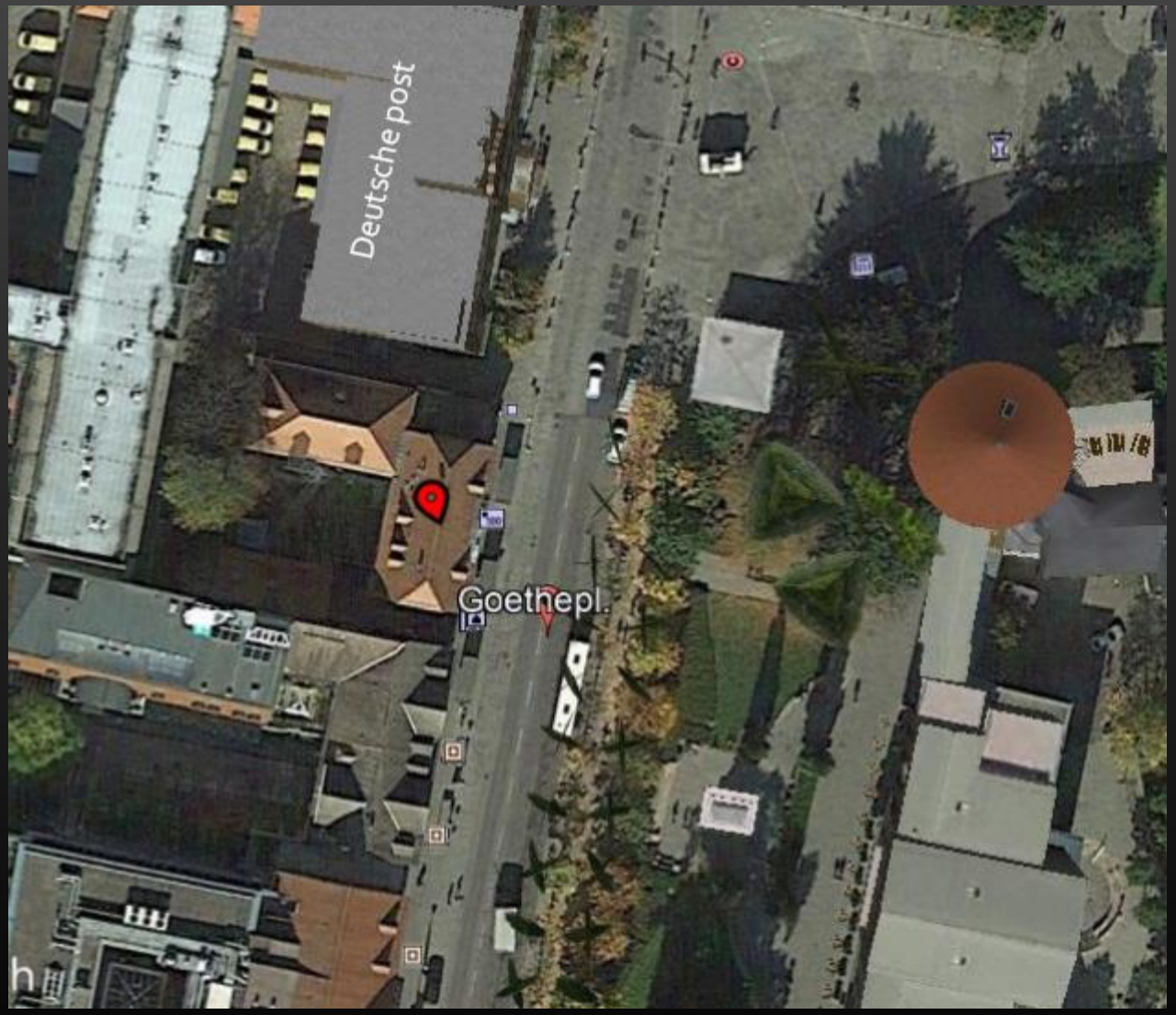
How could it Technically realized

For Advertisements

GOETHEPLATZ OFFICE BUILDING

- Location: Goetheplatz, Weimar
- Suitable place for Ads because of it’s location in the city center

Chosen Buildings to apply on



How could it Technically realized

Chosen Buildings to apply on

For Advertisements

GOETHEPLATZ OFFICE BUILDING

- 3 floors building.
- The selected area to project over about 6 m height and 20 m width.
- Grey painted Façade.

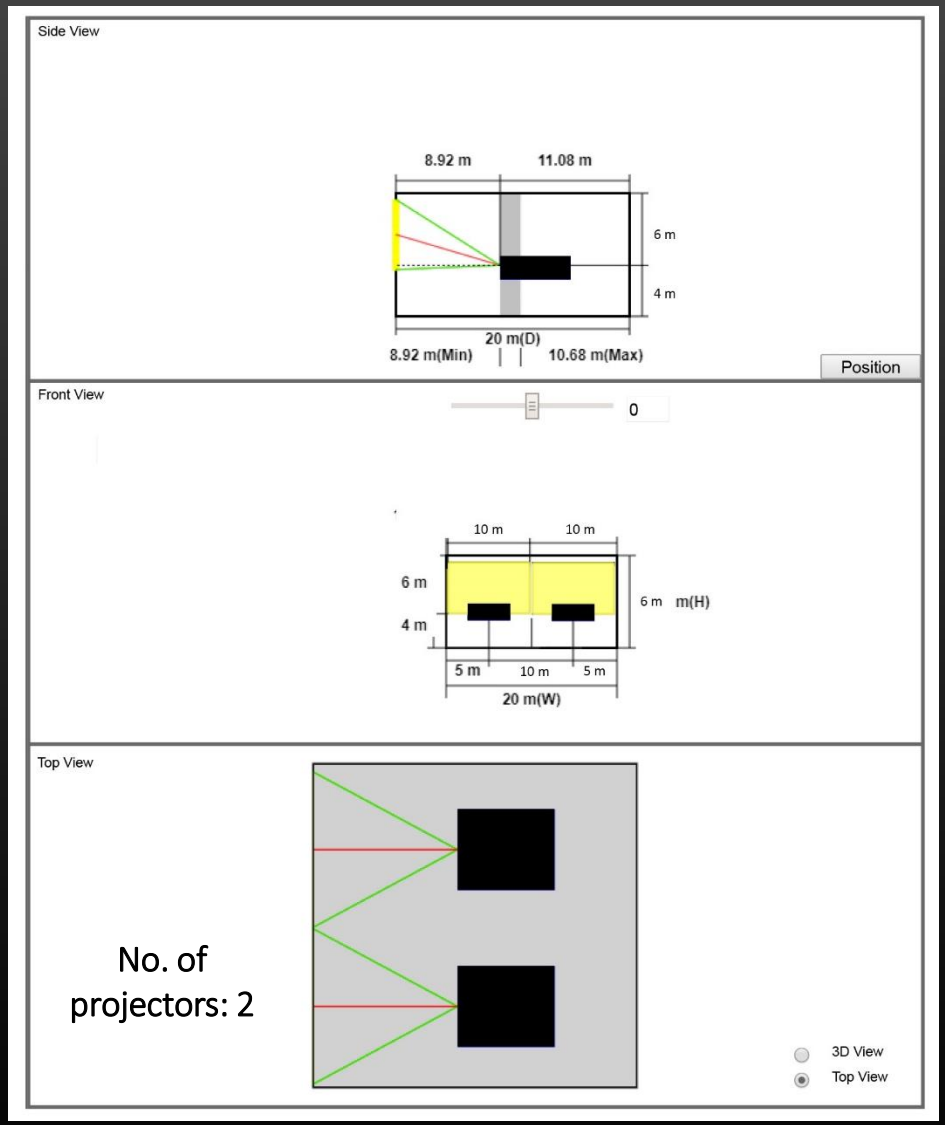
How could it Technically realized

GOETHEPLATZ OFFICE BUILDING

Selected projector

Name	PT-DZ 13k (Panasonic)
Lens	ET-D75LE6
Brightness	12000 ANSI Lumen
Contrast	10,000:1 (full on/off, with DYNAMIC IRIS set to "3")
Resolution	1,920 x 1,200 pixels
Aspect Ratio	16:10(WUXGA)
Technology	3 x DLP Chip
Screen illuminance	300 lx
[Projection distance]	L: 7,423–8,888 mm / 292.2–349.9 in / 24.35–29.16 ft
Dimensions (W x H x D)	530 x 200*8 x 548.5 mm

Chosen Buildings to apply on



How could it Technically realized

Chosen Buildings to apply on

GOETHEPLATZ OFFICE BUILDING

- The front area to project from about 10 m
- Installing two projectors Horizontally beside each other could cover this screen with diagonal 20.88 m

Thank You