

Design Documentation

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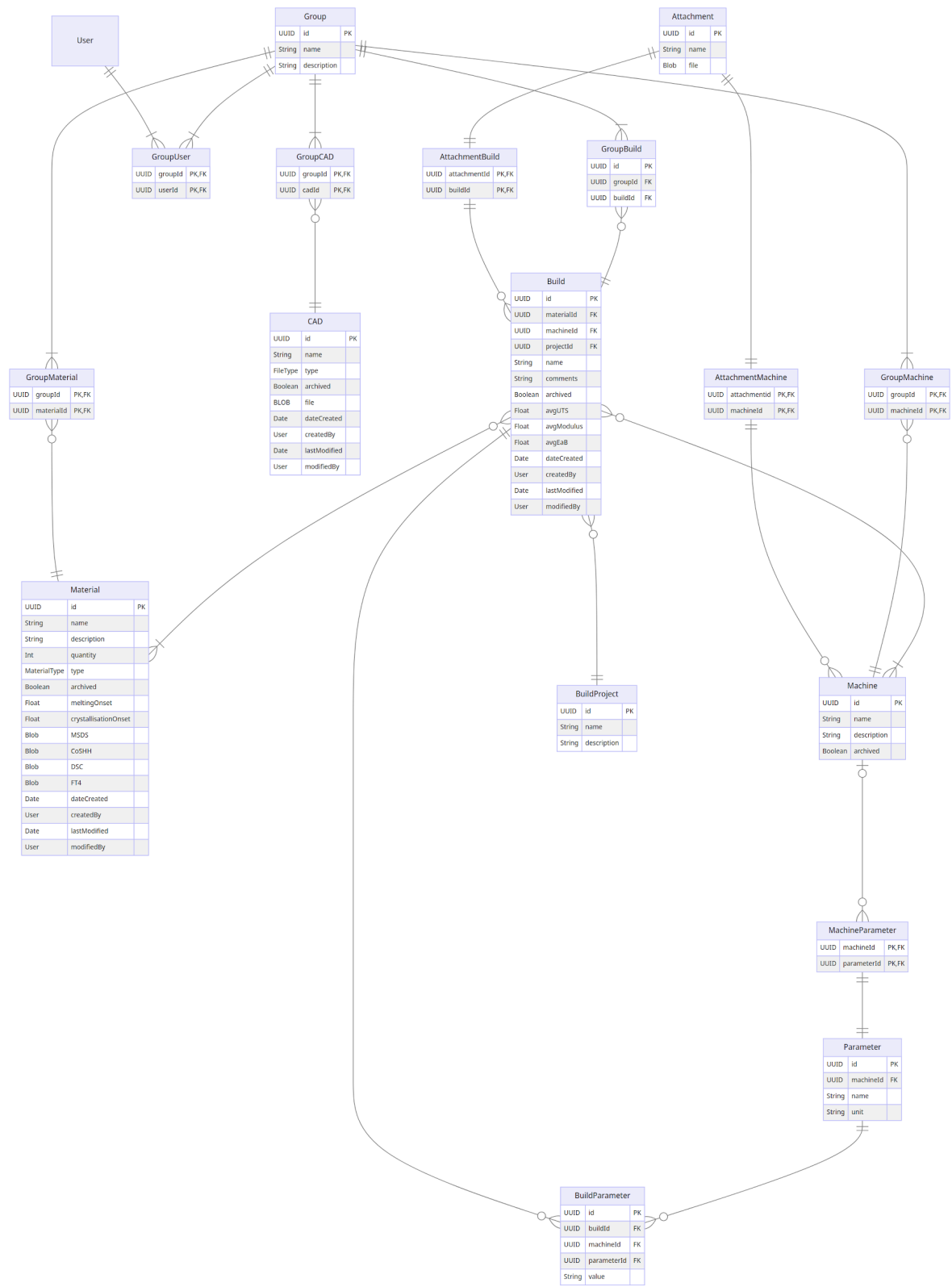
We have included our Entity Relationship Diagrams (Initial and Final) and our Class Diagram.

Our design language has evolved and been refined throughout the project. Our initial mock-ups can be found on moqups, in the provided project. Here are some extra screenshots of how we implemented it in our project. From the early prototype to final design.

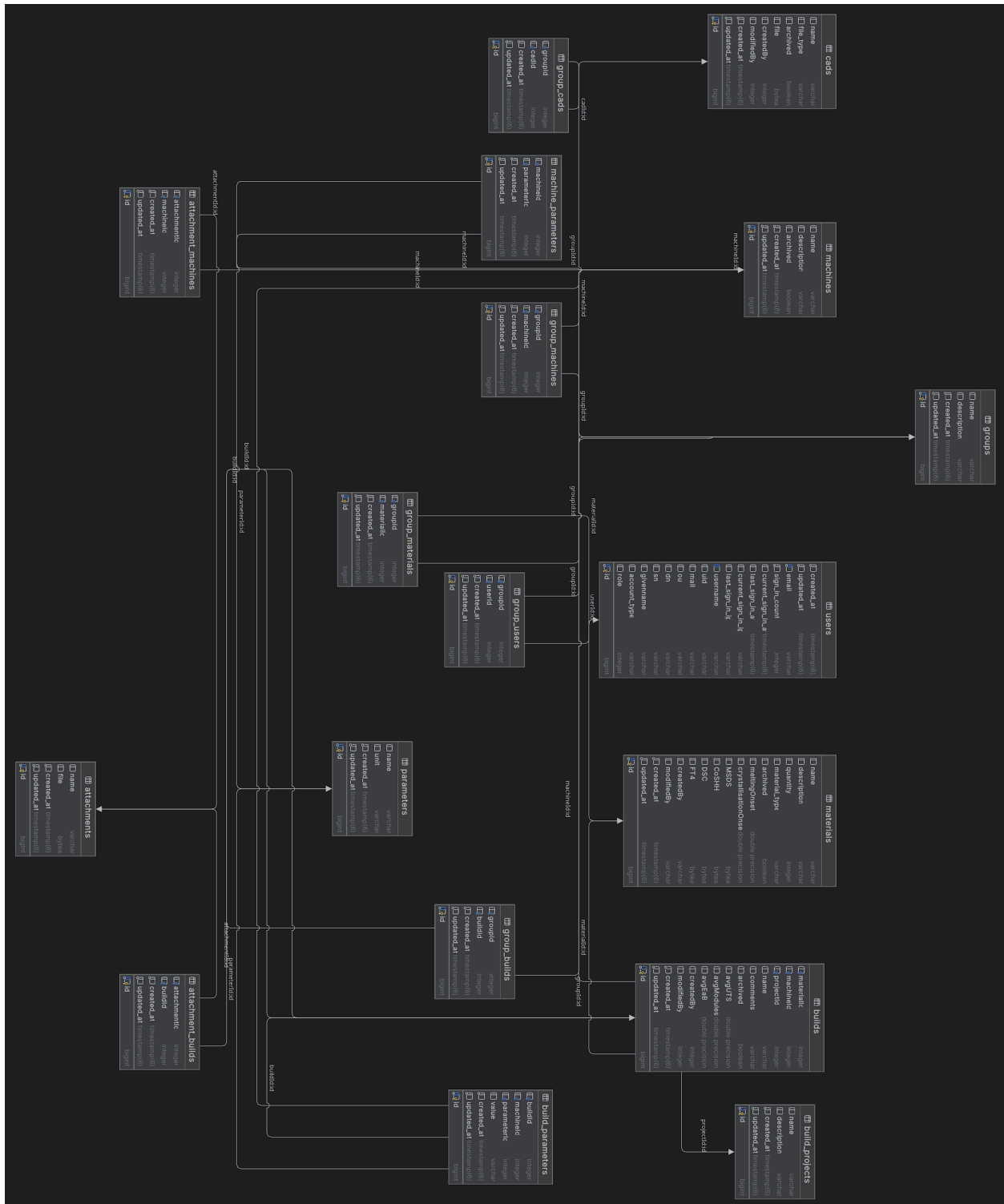
The most frequently accessed pages are linked on the navbar, with less frequently accessed pages, in the dropdown menu in the navbar. Within these pages, you can use the buttons such as “Show” or “Edit” to navigate within the subpages. You will have a “Back” button to take you to the previous page when inside a subpage.

Entity Relationship Diagram

Initial:

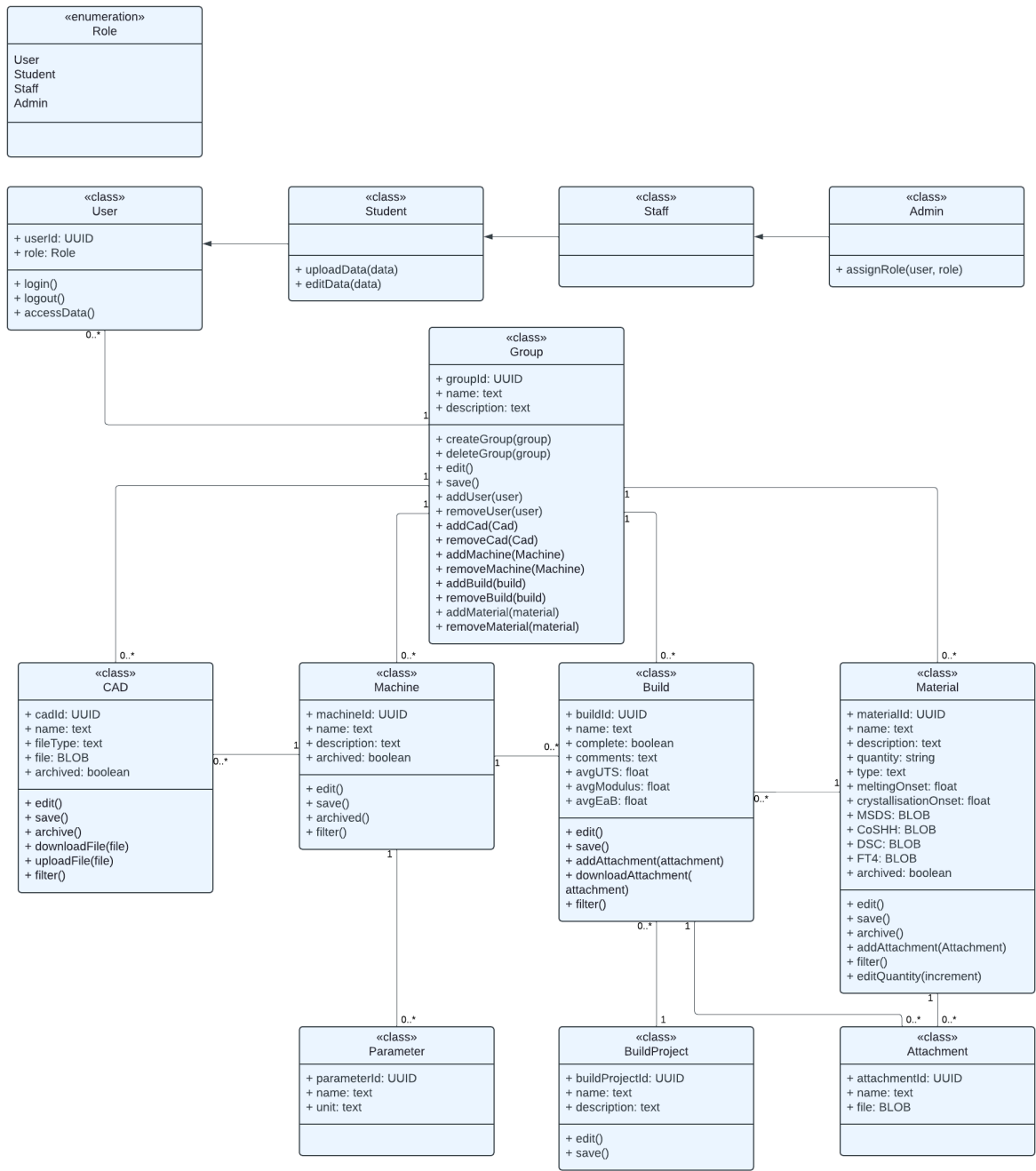


Final:




(High Resolution images available in our Google Drive - inside the folder "Designs")

Class Diagram




CAD Pages

Initial:



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Editing Cad

File name

file1

File type

FBX

Build machine

machine2

Choose file

No file chosen

Creator

jack

Save

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New Cad

File name

File type

Select File Type

Build machine

Choose file

No file chosen

Creator

Save

[Back](#)

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Filtering Options

File Name:

File Name

File Type:

File Creator:

Creator

Build Machine:

Machine

Apply Filters

Clear Filters

Listing Cads

New Cad

File name	File type	Build machine	File	Creator
file1	FBX	machine2		jack
			<div>ShowEditDestroy</div>	
cad1	STL	machine1		joffray
			<div>ShowEditDestroy</div>	
cad2	FBX	machine1		joffray
			<div>ShowEditDestroy</div>	

Cad details

File name: file1
File type: FBX
Build machine: machine2
File:
Creator: jack

[Edit](#)

[Back](#)

Final:

Create CAD

Name: *

File Type: *

Part File

Machine: *

Scintilla (HSS)

☐ Archived

File: *

Browse...

No file selected.

Back

Submit

Materials

CAD Files

Builds

Cad was successfully created.

Testing Details

File name:

Testing

File type:

Part File

Machine:

Scintilla (HSS)

Created By

Atri Hegde
ahegde1@sheffield.ac.uk

Created at:

2024-05-05 18:24:27

Updated By:

Atri Hegde
ahegde1@sheffield.ac.uk

Updated at:

2024-05-05 18:24:27

Archived:

false

File:

Download

Back

Edit

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Materials

CAD Files

Builds

Filtering Options ▲▼

File Name:

File Name

File Type:

Select File Type

File Creator:

Creator

Last Modifier:

Last Modifier

Machine:

Select Machine

Creation Date:

dd / mm / yyyy

dd / mm / yyyy

Last Update:

dd / mm / yyyy

dd / mm / yyyy

Archived

Select Archived

Clear Filters

Apply Filters

Listing Designs

New CAD

File name ▲▼

File Type ▲▼

Machine ▲▼

Created By ▲▼

Modified By ▲▼

Archived

Testing

Part File

Scintilla (HSS)

Atri

Atri

false

Show


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Material Pages

Initial:



HomeMaterialsCAD FilesBuildsUser

New Material

Name

Melting point

Boiling point


Tensile strength

Save

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HomeMaterialsCAD FilesBuildsUser

Editing Material

Name

Steel

Melting point

1000.0

Boiling point

5000.0

Tensile strength

20.0


Save

Back


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Listing Materials				New Material
Name	Melting point	Boiling point	Tensile strength	
Steel	1000.0	5000.0	20.0	ShowEditDestroy



HomeMaterialsCAD FilesBuilds



Filtering Options

Material Name:

Melting Point:

Boiling Point:

Tensile Strength:


Apply Filters

Clear Filters


Listing Materials				New Material
Material Name	Melting Point	Boiling Point	Tensile Strength	
Steel	1000.0	5000.0	20.0	ShowEditDestroy
copper	1500.0	4000.0	50.0	ShowEditDestroy
aluminium	800.0	2000.0	10.0	ShowEditDestroy

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Material details

Name:Steel

Melting point:1000.0

Boiling point:5000.0

Tensile strength:20.0


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Final:



Materials

CAD Files

Builds

Filtering Options

Material Name:
Name

Last Modifier:
Last Modifier

Creation Date:
dd / mm / yyyy

Material Type:
Select Material Type

Melting Onset:
Min °C

Last Update:
dd / mm / yyyy

File Creator:
Creator

Crystallisation Onset:
Min °C

Max °C

Max °C

Archived
Select Archived

Clear Filters

Apply Filters

Listing Materials

New Material


Mat. Name	Mat. Type	Melt. Onset	Cryst. Onset	Location	Created By	Modified By	Archived
Testing	Powder	10.0	9.0	asdf	Atri	Atri	false

Show

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Materials

CAD Files

Builds

New Material

Name: *

Description:

Material Type:
Powder

Quantity(kg or ml):

Location: *

Melting Onset:

Crystallisation Onset:

☐ Archived

MSDS:

Browse...

 No file selected.

CoSHH:

Browse...

 No file selected.

DSC:

Browse...

 No file selected.

FT4:

Browse...

 No file selected.

Back

Submit

Testing Details

Name:	Testing
Description:	asdf
Material Type:	Powder
Quantity (Kg or ml):	10
Location:	asdf
Melting onset (°C):	10.0
Crystallisation onset (°C):	9.0
Created By:	Atri Hegde ahegde1@sheffield.ac.uk
Created At:	2024-05-05 15:26:18
Updated By:	Atri Hegde ahegde1@sheffield.ac.uk
Updated At:	2024-05-05 15:26:18
Archived:	false
MSDS:	Download MSDS
CoSHH:	Download CoSHH
DSC:	Download DSC
FT4:	Download FT4

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