PRINCIPLES OF DESIGN Project 2 - DESP1026 Principles of Design

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Planning For Project 2

Complete with activities/tools that you can use throughtout the process to deliver the project.



Client Company:	Product Di 400mm^3, m
Brief description of product to be designed Disposable/recyclable cardboard structure. To be sat/stood on when viewing a performance at a	Features – I am planning
Customer/s – What are their needs?	Performane The user shou chair, the use
Recyclabe, Durable, Ethical, Short Product Lifespan	Quality, Sto specificati
Quantity, Expected production volumes ? not specified	Durable, relib
Styling – How will the product look, what are the products influences?	What more
	Product Desi
Competition – What are the current brands (if any) occupying this market space? Google Cardboard, Slotle Cardboard Stool, Paperpod, cArtu Stool, iaja.	Signed:
Environment – Where does the product need to work? In a Wet/Muddy Festival, to be used by intoxicated individuals	Signed
Product Cost – what will the market stand against what you intend to offer Low product cost	
Assembly – On a scale of 1-5 (5 being very important) how important is the Design For Manufacture? Designing for cardboard	
Materials – What materials might be suitable? Will the product need to be robust or have a disposable feel? Recyclable materials, mainly card	
Ergonomics – How will the product be used and by whom? How flexible will the design need to be to cater for its target audience? Collapsable to be used by young drunk festival go-ers.	

Product Design Specification

Product disposal and Sustainability – How will you take back the product at end of life, can parts be reused or recycled, perhaps upcycled? Disposable after one weekend of use, maximum 6 day use.

mensions – Are there constraints on product size? ninimum height 400mm

What features will the product have? on including a beer carrier in the design.

ce – How will it perform and how will you measure success? uld be able to use the product as a platform to stand on during acts. While standing on the r may begin to dance

andards and Specifications – What are the minimum standards or ions for this product? ble in possible wet and muddy conditions.

gn Brief

.....Designer

.....Client

e do we need to know to successfully execute the design of a new product?

Assumptions and Observations











After visiting a festival, my assumptions and observations for problems to solve are as follows.

Pain Points

- Not being able to see the stage
- Carring food and drink to and from the tent
- Not knowing lyrics
- Not knowing artists
- Planning what stages to go to at what times
- Parking



User Research







Star Design = Maximised triangles



Initial Design







Notes: Needs base to hold form together





- Extra space when compressed can be used to add handle in top,
 Space for bottle carrier, inline with pain points research















App<mark>erture</mark> design







Additional slots for cans will hold the model in the compressed position

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Full Size Star Model with slot mechinism







Star Design Progress





Step Design

Notes:

• Using the sloped edged from star.





Notes:

• NET will be more complex if slope is less

Notes:

• After the inital star design, I

• Current design limits top too much



• Card was too hard to manipulate at Full

• Always do a scale mod

Notes:

lel

- Limits size of top too much, not comfortable to stand on Charity branding g of Stand
- Up To Cancer vould work nicely with t design



CAD Mok-ups of Cross Design Design



Notes:

• Not easily flat packable

Full Size Models





























Lack of support from spiraling in on itself







