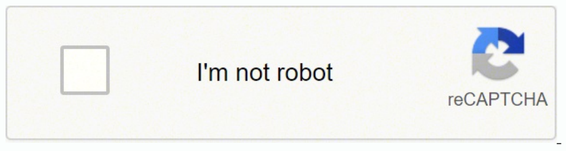

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Concept design report example

Business Concept Paper for
New Dimension Entertainment LLC
DBA Rave-Nation.com

Team Leader: Shawheen Amirkhizi

Problem

Ravers are people that actively attend Electronic Dance Music (EDM) Concerts AKA "techno concerts" or "raves". Ravers enjoy the electronic music played at these concerts and are influenced by the culture of electronic music genres. Ravers want unique and customized products that will make them stand out from others. They also want them for specific dates, usually the date of the next concert they are attending. These products are often rare so there are only a few suppliers. Many companies that do offer them do not offer a variety of different products, have poor customer service and a lack of customization. Also many of these companies are located outside the US, and they can take quite some time to ship out orders. Ravers often require their products by the date of their next concert. This is a big shortfall to ordering from overseas and from multiple companies.

Products

Rave-Nation.com offers rare and customizable products in one place. Ravers can find nearly everything they need for their next event at one website instead of multiple websites. Our customization allows customers to purchase just part of an outfit instead of the whole thing, make requests for specialized clothing, and provide custom options and additions to many products, such as adding spikes, extra lenses, and extra decals to goggles. Rave-Nation has two product types:
Apparel – Clubwear and items not generally seen in everyday society such as Cyber falls, and Fluffy boot covers.
Accessories – Products used at a rave, such as Glowsticks, LED Glowsticks, and LED Hula Hoops.

Customer

Ravers can be defined as anyone that enjoys Electronic Dance Music (EDM) and frequently goes to EDM Concerts . These individuals want to be seen as unique and they express this uniqueness at raves through clothing and accessories. The majority of ravers are between the ages of 18 and 25, many of which are college students. Three main types of ravers:
Kandi Ravers- Dress in lots of colors and wear a lot of fur. They also wear beaded jewelry, and enjoy fast paced music.
Gogo Girls- Typically paid dancers that work in groups with similar outfits of fluffies, clubwear, and hosiery.
Cyber Ravers – Wear black clothes with bright colors. Interested in LED gas masks, LED goggles, and UFO pants.

Market

Market Size: Actual market size is hard to determine. The largest EDM Concerts and festivals have attendances between 100k and 200k people. Below are estimates on the size of the largest Dance Parties in the US. Some of the below events happen multiple times in one year. The CEO of Insomniac Events, the promotion company in charge of the Electric Daisy Carnival stated: "We're doing 16 festivals in 2012," (Amter, 2011). Again it is hard to find list style statistics, but there are tens of DJs that have the ability to attract tens of thousands ravers with their name alone. These events are occurring every weekend and many weekdays of the year, across the entire US. The bigger events with attendances in the 100 thousands, happen frequently as well. Six of these largest events are listed below but this is not a complete list of 100 thousand + person events.

Electric Daisy Carnival – 140,000 (Wake, 2012)
Ultra Music Festival – 150,000 (Wake, 2012)

Materials used in construction of the bridge

- popsicle sticks
- Cuter,
- Paper,
- Elmer's WOOD GLUE,
- masking tape

Factors considered

Structural Constraints

The site considered should be a maximum of 12 inches across considering that this is the intended length of the bridge. The bridge was also required to lie across the two points, and its joints should lie on all the four points such that they offer support to the bridge. The weight of the bridge was capped a t a maximum of 500 grams.

Construction Constraint

The weight of the used glue was considered negligible.

Quality Control Testing

The estimated weight of sticks with glue was almost equivalent to the weight of the Popsicle sticks without glue. Two bridge models were considered in the project with their specifications as follows:

Bridge 1:

- 115 Popsicle sticks used
- The weight of the bridge is about 124.9 grams.
- The weight supported is 4.05 pounds, which is equivalent to 1837 gms

Approach and Process Description

Syngas Unit Design

The first part of the overall design of the Fischer-Tropsch Reaction unit was to design the syngas unit. Carbon dioxide, methane, steam, and oxygen are combusted in an equilibrium reactor to produce Syngas. The three primary reactions that occur simultaneously in the reactor are as follows.

Steam reforming: $CH_4 + H_2O \leftrightarrow CO + 3H_2$

Partial oxidation of methane: $CH_4 + {}^3/_2O_2 \rightarrow CO + 2H_2O$

Shift reaction: $CO + H_2O \leftrightarrow CO_2 + H_2$

Two process units are involved in the Syngas unit. Four streams (carbon dioxide, oxygen (99% oxygen and 1% nitrogen), methane and steam) are fed into a mixer at 100 °C. The methane is fed in with steam in order to prevent coking of the process equipment. The material is then fed directly into the equilibrium reactor. The only component flow-rate that was definitively defined was methane. The component flow rates of carbon dioxide and air were given arbitrary values because the se flow-rates were optimized using the optimization package in Aspen to optimize the production of hydrogen.

There are three constraints for the system. First, the ratio of hydrogen production to carbon monoxide production must be 2:1. Second, the equilibrium reactor is adiabatic. Third, the molar ratios of steam to methane flow rate is greater than or equal to 1:2. The parameters being varied using the optimization package are the temperature (1600 – 1950 °F) and pressure (300 – 500 psig) of the reactor, the flow rates of air (10 – 1,000 MSCFD) , carbon dioxide (10 -1,000 MSCFD), and steam (250 -500 MSCFD). The product of the Syngas unit was then feed into a Fischer Tropsch Reactor. Figure (1) is the process flow diagram of the Syngas unit and Table (4) provides the stream tables and mass balance of the unit.

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The design shall also follow the guidelines listed herein:

- Intakes shall be at an adequate distance away from stack vents, equipments vents, and cooling towers.
- Adequate vertical distance from ground level shall be insured to avoid contamination (0.9m to 1.2m FFL).
- Adequate access to outside air intake plenums shall be insured in the design process. Also, measures to minimize the possibility of access by unauthorized personnel shall be taken into considerations for security purposes.

Exhaust of Contaminants and Odors

The design shall provide exhaust systems for the removal of contaminants and odors, preferably as close to the source of generation as practically possible (Refer to AGS system section 6.0). Some major source exhaust in a hospital facility include:

- Chemical fume hoods and biological safety cabinets (typically used in laboratories)
- Trunk ducts in surgical applications (removes anesthetic gases and aerosols)
- "Wet" X-Ray film development machines (chemical fumes)
- Cough inducement booths or hoods (as used in contagious respiratory disease therapy)

When contaminants and odors cannot be practically captured at the source, the space of generation shall be exhausted (eg. Laboratories, soiled laundry, waste storage, dirty process, anesthesia storage, and disease isolation spaces).

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