PRODUCT DESIGN

Homework 1

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1615
8A

Family dinner planning

Menu survey:

(P.S: the following questionnaire would be presented and shared through a Google documents form)

Title: Menu item questionnaire

Good evening, everyone!

Due to the different opinions and preferences when it comes to food, I decided that instead of choosing something myself and hoping that everyone would like it, it would be more reasonable to create a questionnaire in which different menu items are available that you could choose from and the ones with the most votes will be the one chosen, thereby making sure that the food served is what the majority would actually enjoy.

Appetizers: (top three picks will be chosen)

- *Scallion and Caramelized Onion Dip*
- *Mini Pizzas*
- *Parmesan-Rosemary Baked Zucchini Fries*
- *Sriracha-Buffalo Cauliflower Bites*
- *Mushroom soup*
- *Mozzarella Sticks*
- *Baked Broccoli-Cheddar Quinoa Bites*

Main dish: (top one picks will be chosen)

- *Steak burgers*
- *Grilled fish*
- *Pasta with garlic butter sauce*
- *Octopus/beef skewers + lamb chops*
- *Egg fried rice*

Side dish: (top two picks will be chosen)

- *Red Roasted Potatoes*
- *Coleslaw*
- *Chive Smashed Potatoes*
- *Hummus, Baba ghanoush, and bread*
- *Hearty Spinach Salad with Hot Bacon Dressing*
- *Strawberry Arugula Salad with Feta*
- *Bacon Pea Salad*
- *Bacon Crescent Rolls*
- *Baked Onion Rings*

Desserts: (top two picks will be chosen)

- *Cookies & Cream Brownies*
- *Brownie Mocha Trifle*
- *Frozen Chocolate Cheesecake Tart*
- *Kipplens*
- *Oreo Cupcakes with Cookies and Cream Frosting*
- *Cranberry Cheesecake*
- *Hidden Mint Morsels*

Beverages: (top two picks will be chosen)

- *Mint lime ginger splash*
- *Blueberry pomegranate chia fresca*
- *Raspberry lemon with honey and mint*
- *Hawaiian punch*
- *Pineapple orange punch*

Other suggestions:

Text box: write your suggestion (and recipe, if possible)

Example of the survey

Survey answers:

Appetizers (top three will be chosen)
13 responses

- Scallion and carmalized onion dip
- Mini pizza
- Parmesan-Rosemary Baked Zucchini Fries
- Sriracha-Buffalo Cauliflower Bites
- Mushroom soup
- Mozzarella Sticks
- Baked Broccoli-Cheddar Quinoa Bites

30.8% · 15.4% · 15.4% · 15.4% · 15.4% · 7.7%
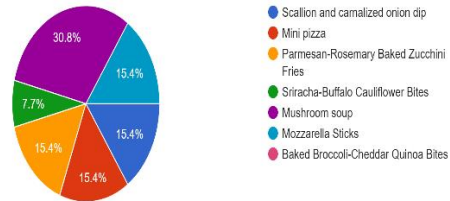
Main dish: (Top one will be chosen)
13 responses

- Steak burgers
- Grilled fish
- Pasta with garlic butter sauce
- Octopus/beef skewers + lamb chops
- Egg fried rice

30.8% · 23.1% · 38.5%

Side dish: (top two picks will be chosen)
13 responses

- Red Roasted Potatoes
- Coleslaw
- Chive Smashed Potatoes
- Hummus, Baba ghanoush, and bread
- Hearty Spinach Salad with Hot Bacon Dressing
- Strawberry Arugula Salad with Feta
- Bacon Pea Salad
- Bacon Crescent Rolls
- Baked Onion Rings

38.5% · 15.4% · 30.8%
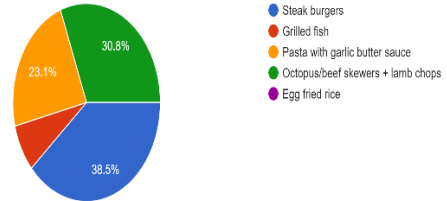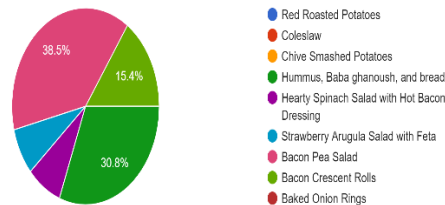
Beverages (Top two will be chosen)
13 responses

- Mint lime ginger splash
- Blueberry pomegranate chia fresca
- Honey-raspberry lemonade
- Hawaiian punch
- Pineapple orange punch
- Raspberry lemon with honey and mint

15.4% · 23.1% · 7.7% · 23.1% · 30.8%

Desserts: (top two picks will be chosen)
13 responses

- Cookies & Cream Brownies
- Brownie Mocha Trifle
- Frozen Chocolate Cheesecake Tart
- Kipplens
- Oreo Cupcakes with Cookies and Cream Frosting
- Cranberry Cheesecake
- Hidden Mint Morsels

30.8% · 7.7% · 53.8%
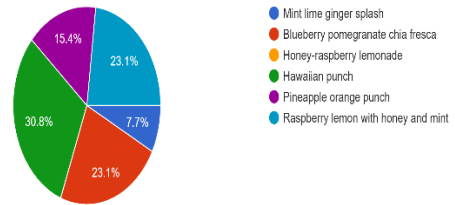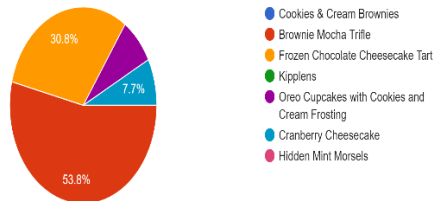
Final choices			
Type	**Food**		
Appetizers	*Mushroom soup*	*Mini pizzas*	*Mozzarella sticks*
Main dish	*Steak burgers*		
Side dish	*Bacon pea salad*	*Hummus & baba ghanoush*	
Beverages	*Hawaiian punch*	*Honey-raspberry lemonade*	
Desserts	*Brownie mocha trifle*	*Chocolate cheesecake tart*	

Note: *Any options that have ended in a draw have been chosen by me.*

Event plan:

Event plan flowchart
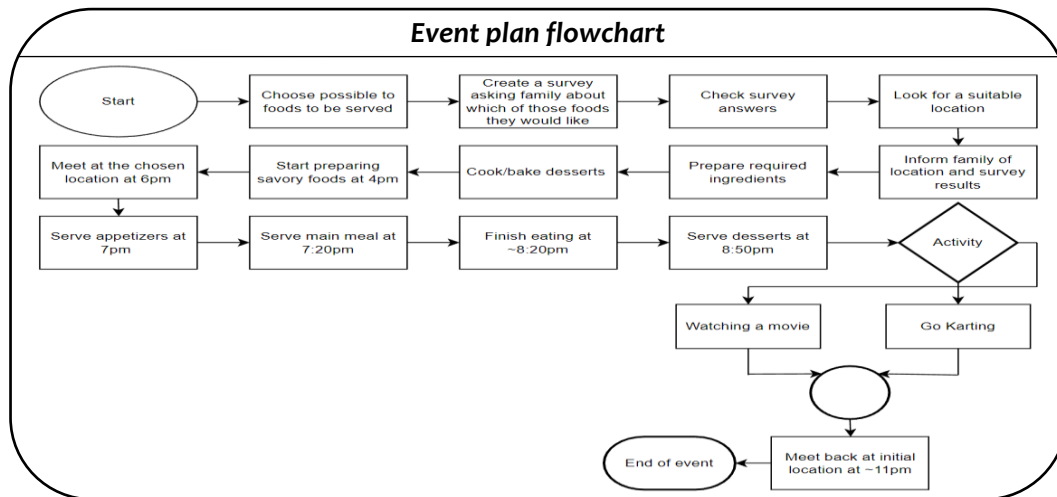
Triggers:

Market-pull

The Market-pull approach refers to the process of manufacturing or offer a product based on the market's current demand of said product.

Technology-push

Technology-push related to the process of making a product based on unique addition in an existing market or advancements in an entirely new one in the hopes of the product gaining the market's attention.

Platform

A platform is a business that aims to connect clients or consumers with producers and manufacturers, an example of which is Amazon or YouTube, which connect their users with video makers or sellers.

Process-intensive

Process-intensive is the process of making a product based on R&D and opinions gathered through company executives and employees rather the product's users or consumers.

Customization

Customization if the opposite to that of process-intensive, in that it is the action of providing a product based mainly on the client's needs and requirements.

What type of trigger is a family dinner considered?

A family dinner could constitute of many different triggers in that depending on the way the dinner has been planned, served, and presented to the family, it could almost be any trigger.

In that if the dinner's menu were to be planned by the side of the family that is hosting, then it could be considered as process-intensive, while if it was done through majority voting, then that would be considered as customization.

While if the dinner were to be made based on prior and current knowledge of what different family members like, in which case it would be considered as a market-pull approach, while inviting family members to a dinner while testing out new recipes or trying to implement foods from different cultures, then that could potentially be considered as technology-push as it provides something new without prior consideration of the market's overall agreement to the product, which in this scenario is the dinner. However, there is no logical way in which a family dinner could be implemented into a platform-like method.

With that being said, the family dinner that has been presented and shown earlier is a perfect example of a customization business model, in that the family – or user-base – has a direct impact on the outcome of the menu – which is the product – and therefore, they were able to customize the dinner's menu to their own preference.

Ideal occupation

The occupation:

Personally speaking, an ideal occupation would be something related to space travel and aerospace engineering. That is the case since I feel that this field of study allows me to provide something meaningful to a very wide community while also providing myself with a reasonable purpose to pursue in life.

Job satisfaction:

- ***A job in which I could contribute and have a genuine impact in:*** *Meaning my role is actually impactful and assists in pushing the organization I am working for in a better direction*
- ***For the job to be challenging and necessitates utilizing my skills:*** *Working a job that is easy and does not require my abilities does not seem like something I would enjoy in the long run, as although it could be considered as "easy-money", it would not mean anything significant to myself*
- ***A Job that provides me the potential of having a major impact on a STEM field:*** *For the job to be in a field that might not be entirely developed or in constant need of innovation and improvement, while also being within a STEM field. That is the case since it allows me to contribute and potentially help people either in a small or potentially wide scale and that it allows me to leave something for my in which people could remember me with even after I am gone.*
- ***Provides a decent income:*** *Although an extremely high income is not the most important aspect that I am seeking in a job, providing a decent living is nonetheless something preferable and it would also provide the opportunity for me to experiment and work on hobbies and projects without having to worry about budget as much.*
- ***Like-minded coworkers:*** *Working with people that are like-minded in the fact that they are passionate about what they are doing would generally mean that the work environment would be very comforting and safe overall.*
- ***A work environment that recognizes employee's achievements:*** *For the work environment to recognize and promote employee achievements would not only would provide a feeling of satisfaction and motivate people to work harder but it would also give a sense of competition between coworkers.*

Job constraints:

- ***An income that is way below average expenditures:*** *As mentioned, having a high income is not one of my personal main requirements, although the amount does nonetheless have to be above my average main living expenditure such as clothing, food, housing, and transportation expenses, while also having a reasonable amount of surplus by the end of the month for saving purposes.*
- ***Visa requirements:*** *If the job is not within Oman, then visa requirements to the country the job is in would be a major constraint that would prevent me from applying for it.*
- ***Current knowledge level:*** *If the relevant knowledge I have on the job is simply insufficient for the requirements of the job.*
- ***Terrible H&S precautions:*** *Having terrible Health and Safety precautions in place especially in a job relating to aerospace engineering, a job in which heavy equipment, toxic fluids, and high temperatures are involved, is simply not something I am comfortable working with.*

Available job advertisement: Supervisory Engineer, AST Research Pilot at NASA's Ames research center

Job summary

Supervisory Aerospace Engineer, AST Research Pilot (Direct Hire)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - AGENCY WIDE
Ames Research Center

Summary

Serves as Chief of Flight Operations in the Aviation Management Office at Ames Research Center. Exercise's authority over piloted/unpiloted aircraft flight activities operated/controlled by the Center. Duties include piloting of aircraft used in research, development, test programs, evaluating test parameters, performing flight & ground simulations of advanced missions and aircraft. Ensuring the establishment and operations of the Ames Urban Air Environment./Test Capability for UAV/UAS missions.

Learn more about this agency

This job is open to

The public
U.S. Citizens, Nationals or those who owe allegiance to the U.S.

Clarification from the agency
** This vacancy has been amended to extend the closing date from 08/13/2022 to 09/16/2022.**

Apply

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Overview

Accepting applications

Open & closing dates
08/22/2022 to 09/16/2022

Salary
$168,206 - $173,600 per year

Pay scale & grade
GS 15

Location
1 vacancy in the following location:

Moffett Field, CA

Job overview

Overview   Help

Accepting applications

Open & closing dates
08/22/2022 to 09/16/2022

Salary
$168,206 - $173,600 per year

Pay scale & grade
GS 15

Location
1 vacancy in the following location:

Moffett Field, CA

Remote job
No

Telework eligible
Yes—as determined by the agency policy.

Travel Required
25% or less - You may be expected to travel for this position.

Relocation expenses reimbursed
No

Appointment type
Permanent -

Work schedule
Full-time -

Service
Competitive

Promotion potential
15

Job family (Series)
0861 Aerospace Engineering

Supervisory status
Yes

Security clearance
Secret

Drug test
Yes

Job duties

Duties   Help

- The position establishes local policy and implement established Agency policy by reviewing and approving management directives such as aircraft operations, maintenance, airworthiness, safety, pre-mishap plans, procedures and manuals.

- Applies knowledge of all phases of unpiloted and piloted aircraft systems, urban air environment operations, and experimental flight test activities.

- Collaborates with Mission Directors in the formulation and development of overall aviation program objectives, with the emphasis on enabling future concept of operations, system evaluations, and demonstrations.

- Exercises review and approval authority over complex mechanical and aeronautical engineering design specifications for major structural alterations to research aircraft to accommodate project instrumentation and support equipment.

- Interact frequently the with Aircraft Management Office Director at NASA Headquarters and other Centers to resolve NASA policy and operations issues related to aircraft operations.

Full job listing

(Listing closes on the 18th of September 2022, webpage might be unavailable after said date)

https://www.usajobs.gov/job/672166300