Healthy Belly

Mohammad Bharoocha Josue Rodriguez Mateo Perez Hassan Ishmam Priyanshi Vaishnav Nisal Gamage

Introduction

- How Did Healthy Belly come to be?
 - So many Ranches! Which ones are safe?!
- What will Healthy Belly do?
 - Reduce the long process of reading every label
 - Scan food, Buy food! NO MORE READING

- > Emily Wilkerson
 - She's a pregnant woman, conceiving for the first time, looking for assistance with her proper dietary intake to ensure a healthy baby, but at the same time she has little to no time to read or consult with a professional every now and then.

NAME

Emily Wilkerson

TYPE

Rational



Goals: Being able to have a healthy baby, being able to pick food that is healthy as fast and easy as possible.

Quote: I just want something to tell me what i can and ant eat without having to read long paragraphs.

Background: Emily is a future mom. She works as an accountant in a busy firm. Due to this she needs to rush through her lunch break so finding time to do research on what to eat can be difficult due to time constraints. Also being a first time mom she has very little knowledge on what she needs to eat in order to have a healthy baby.

Motivations

-Easy feedback on what i can eat
-All the information i need to know about
pregnancy diet all in one place
-quick way to check if can eat this food.

Frustrations:

 wasting time reading labels,
 wasting time looking up information about ingredients,
 Not having all the information needed about diet in one place

Browsers

Technology



Channels

Personas

- Kevin Smith
 - He's the husband of a pregnant woman looking for assistance with taking care of his wife and his baby. He constantly has to ask his wife what she can and can't eat and make sure it's good for the baby.

PROJECT: untitled

Kevin Smith

Rational



Goals: To provide support for his wife in order to make her pregnancy a little easier and to have a healthy baby

Quote: You know since im so busy bringing my dream all together i dont have time to google what's okay for my wife to eat

Demographic

o'	Male	28	years
	Los Angeles		
	Married		
	chef		
	45,000 a year		

Background: Kevin is a chef at a restaurant that knows how to make good food but doesn't know what food is good for his pregnant wife. Since hes a chef his wife sends him grocery shopping. Kevin always has trouble shopping for groceries due to his lack of knowledge on what food is good for his wife. He spends a lot of time googling ingredients and communicating with his wife trying to figure out if she is able to eat certain foods or

Technology



Browsers



Channels

Motivations

-All the information he needs in one place -Doesnt want to bother his wife by asking

-Wont have to worry about what his wife

Frustrations:

- wasting time reading labels,
 wasting time looking up information about ingredients,
- -Not having all the information needed about his wife diet in one place -Has to constantly ask his wife what she
- n and cant eat

Personas

- Alan Grant
 - He's a doctor and his goal is to help women who are expecting soon. He can't be there personally to answer any ambiguity a patient might have about their diet preferences.

PROJECT: untitled

Alan Grant

Rational



Goals: To help patients have the healthiest babies possible and to help guide them to a healthy diet.

Quote: Its hard to explain to patients why they can or ant eat something and i don't want to give them a giant list of things they can and cant eat.

Demographic

0	Male	-	years
9	Los Angeles		
	Doctor		
	150,000 a year		

Background: Alan Grant is a Doctor at a very popular hospital. He works with pregnant women and helps them through their pregnancy by teaching them about nutrition. He spends every day explaining to patients why they cant eat something, what foods should they avoid, what food is recommended. He gives out pamphlets and pages of nutritional information for expecting mothers hoping that they will read it and follow the guide he gave them.

Technology



Browsers



Channels

Motivations

-I want something i can recommend to my pregnant palents to help them with their nutritional needs -I want something that wont overwhelm my patients with information and can give them the information they need quick and easy -I want something that they can access anytime if they have questions about what they can and cant eat

Frustrations:

- It takes a lot of time to go through each list of things a patient can and cant eat - He cant be there to answer every question a patient has about diet - Patients can feel overwhelmed by the amount of papers that are given to them with nutritional information

Mini Business Plan

Strategy												
Problem	Solution	Value pro	position	Unfair advantage	Customer segments							
Having to read the nutritional label Knowing what is healthy/unhealthy explaining to friends/ families your needs	Scan and go system that requires no reading Information in system that filters (un)healthy Having profiles for easy access for everyone Key metrics How often a user scans an item, how often a user inputs data into database, what item is most scanned	An App that prioritizes simplicity and efficiency for its user while making the app as informant and accurate as possible, with the backing of Medical Professionals		Being able to combine both the ingredients that are safe/unsafe with the dietary restrictions of people who follow certain diets Channels Social Media as well as direct Doctor recommendations	Pregnant women, family of pregnant women, friends of pregnant women.							
	Cost structure		Revenue streams									
	monetization to run successful we have no need for a cost struc	THE RESERVE OF THE PARTY OF THE		evenue generator would be adv customers to pay to end adverti	A CONTRACTOR OF THE PROPERTY O							

Mini Business Plan

SV	м от
Strengths	Weaknesses
Your advantages: First of its kind Customer Focused Backed by Pediatricians and Family Doctors Database is constantly growing due to Multiple Users Considering dietary restrictions of people from different backgrounds Desuigned to be as simple and easy to use	Areas for improvement Can be imitated by larger companies Very little profit gain Most information is for US products since majority of input is by US users Relying on information by the people Database might not have complete information on the ingredients
Opportunities	Threats
Situations to apply your advantages Everyone is more health conscious Always a supply of pregnant people so the market is always there Can expand to other countries since every country uses barcodes	Where you are at risk Database is open source so information could be altered People inputting false information in the database since its open source

Mini Business Plan

		N. Control of the Con				
Demographic	Behavioral	Psychographic				
Younger to Middle aged group with a good knowledge of using a phone, having a relationship of sorts with a pregnant	What typical actions can be observed?	Priorities are being nutritionally aware, tend to be quite time-poor,				
re	Growth potential					
SUCCESSFUL pregnancies per	Life always finds a way, and a need for an app that will assist in pre-natal nutritions is not only helpful, but vital for the health of both the baby and the mommy					
ve activity	Risk					
oes this. Majority of the app Not what they cannot eat when There are many ranch options,	As discussed with 3 Doctors, two being a nutritionalist, The succe on its accuracy and simplicity					
v a o	rounger to Middle aged group with a good knowledge of using a phone, having a relationship of sorts with a pregnant BUCCESSFUL pregnancies per Compared to the app of the app	Vounger to Middle aged group with a good knowledge of using a phone, having a relationship of sorts with a pregnant BUCCESSFUL pregnancies per Life always finds a way, and a nuin pre-natal nutritions is not on health of both the baby and the least this. Majority of the app Not what they cannot eat when				

Approach

The approach is simple, we connect with users via Social media, going to nutritionists, and connecting with Doctors who specialize in pre-natal nutritions

Primary Market Research

- Created a set of questions for our connections in the medical field (specifically Pediatricians) to interview (RESPONSES SO FAR)
 - Are you willing to use/test our App to see if it meets standards and if the information is accurate (YES)
 - How many mothers/families contact you in regards to nutrition?
 (>20 Patients a day)
 - What are some great sources to use to gain a better understanding of what is considered healthy, what is not considered healthy, and what is something that is considered in between? (Nutritionists are best sources for this information)
 - How are malnutrition & miscarriages connected? In other words, how important is nutrition for pregnancy? (Nutrition is very important for both mom and baby)
 - Different needs during different trimesters? (Strict in start, free in end)
 - What do you think should be on the app? (Consider Disease checks)
 - What do you think would be the most important feature for this app? (EOA)
 - Based on the information that is given do you believe that you would be okay with recommending this app to a patient. **(Of course!)**

Primary Market Research

- Created a survey for families and friends to gauge at their shopping habits
 - O How often do you read the ingredients or nutritional label?
 - O How often do you google an item before buying it?
 - o How long does it take to shop?
 - Would you trust an application to tell you what food is hazardous/not hazardous?
 - If answered no then what could we do to make you trust this app
 - Would you rather pay for the app or would you rather have ads
 - Would you rather want the app to be simple or have in depth information
 - Do you use any health/nutrition app

Response from User Survey (158+ ANS)

- Create a survey for families and friends to gauge at their shopping habits
 - O How often do you read the ingredients or nutritional label?
 - Sometimes
 - How often do you google an item before buying it?
 - Sometimes
 - How long does it take to shop?
 - 1-2 Hours
 - Would you trust an application to tell you what food is hazardous/not hazardous?
 - Yes
 - If answered no then what could we do to make you trust this app
 - N/A
 - Would you rather pay for the app or would you rather have ads
 - Have ads
 - Would you rather want the app to be simple or have in depth information
 - Simple
 - Do you use any health/nutrition app
 - No

Secondary Market Research

- How Does Poor Diet During Pregnancy May Have Long Term Impact On Child's Health?
 - https://www.sciencedaily.com/releases/2008/06/080630200951.htm
- Malnutrition that can cause miscarriages? (Miscarriages due to malnutrition)
 - https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4163795/
- How many people in the United States are pregnant per year?
 - https://www.cdc.gov/nchs/fastats/births.htm
- How many people actually read the nutritional information
 - https://www.agri-pulse.com/articles/6952-most-people-read-nutrition-facts-label-at-leastsome-of-the-time
- Customer trust on information on label
 - https://nypost.com/2018/06/07/most-people-think-food-labels-are-misleading/
- Percentile of Stillborns and miscarriages leading to miscarriages
 - https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2679409/
- What percentage of pregnant women are concerned about what they eat? To what level is that concern?
 - https://www.parents.com/pregnancy/my-body/nutrition/what-pregnant-women-really-eat/
- And many more sources!

Commercialization Strategy

- The App is One-of-a-kind
 - One of the main strategies is that since there is a lack of an application that is anything like Healthy Belly, when someone looks up an application for solving the problem of figuring out if a certain product will be hazardous for a pregnant individual, Healthy Belly will show up.
- Social Media Influence
 - Having multiple connections in the Pediatrician world, as well as having a strong media influence will aid us in spreading the word of Healthy Belly.

Monetization Strategy

- Advertisement
 - We will have advertisements built into our app
- Paid premium version
 - The users will have an option to pay for the premium version which will get rid of the ads

Our Total Solution

- Scan and go, no need to carry a list!
 - o How to use:
 - Open the app
 - Scan the barcode on a product
 - Wait for the result
- How this app works
 - Reads the barcode and Looks it up on a database
 - Open food facts
 - Goes through the ingredients
 - If there is any ingredient that is marked unsafe in our app, it warns the user
 - 3 results depending on the ingredient:
 - Green: Can eat as much as they want
 - Yellow: Can eat but not too much
 - Red: Cannot eat at all

Our Total Solution

- Personalized Results
 - Create Profile
 - Users will be able to create their own profiles
 - User's dietary preference
 - Items that the users are allergic to
 - Refines result depending on user's allergy
 - o Different result depending on the trimester
 - Pregnant woman have different food restriction on each trimester

Implementing Machine Learning

- Recommended suggestion
 - Suggest users items that are good for health during pregnancy
- Better alternative suggestion
 - If the user scans a certain item, if a better alternative is available from a better brand, the app will suggest the user to buy that instead

Alternative Solutions & Why Ours

- An alternate solution for the problem we are addressing would be an application that lists ingredients or products that are dangerous or need to be consumed in moderation through a menu. It does not inform the users of which PRODUCT is not safe, only the ingredient. Healthy Belly does EXACTLY that.
- The primary objective of Healthy Belly is to make life easier for pregnant women. We believe that using the barcode scanning feature is pivotal to ease of access and ease of use in day to day life of any pregnant woman or anyone that must assist them. Simply scan a product and learn if it is safe or not!

Gantt Chart

Healthy Belly Gantt Chart

Roster: [M]arty, [Mat]eo, [J]osue, [H]assan, [N]isal, [P]riyanshi

* = an automatically calculated cell

	MONTH*	END DATE	(WORK DAYS)	DAYS COMPLETE*	DAYS REMAINING*	TEAM MEMBER	PERCENT COMPLETE
0/45	4.5	0/24	-	-		T.O.	******
							100%
9/16	16	9/21	6	6	0	[M]	100%
9/16	16	9/21	6	6	0	[Mat]	100%
9/16	16	9/21	6	6	0	[P]	100%
9/16	16	9/25	10	0	10	[H]	0%
9/16	16	9/21	6	6	0	[N]	100%
9/1	1	9/18	18	18	0	All	100%
						-	
	9/16 9/16 9/16	9/16 16 9/16 16 9/16 16 9/16 16 9/16 16	9/16 16 9/21 9/16 16 9/21 9/16 16 9/21 9/16 16 9/25 9/16 16 9/21	9/16 16 9/21 6 9/16 16 9/21 6 9/16 16 9/21 6 9/16 16 9/25 10 9/16 16 9/21 6	9/16 16 9/21 6 6 9/16 16 9/21 6 6 9/16 16 9/21 6 6 9/16 16 9/25 10 0 9/16 16 9/21 6 6	9/16 16 9/21 6 6 0 9/16 16 9/21 6 6 0 9/16 16 9/21 6 6 0 9/16 16 9/25 10 0 10	9/16 16 9/21 6 6 0 [M] 9/16 16 9/21 6 6 0 [Mat] 9/16 16 9/21 6 6 0 [P] 9/16 16 9/25 10 0 10 [H]

Gantt Chart

When we first started the Gantt chart everything started at 0% as we worked on the tasks we were assigned we updated the Gantt chart. The first tasks that were completed were the Business requirement document, Project Tracking Matrix, Gantt chart setup, Burndown chart and Architectural Analysis. As the sprint went on we finished the other tasks and updated the Gantt chart to reflect it.

OUR GANTT CHART NEEDS TO BE UPDATED. Currently our chart only shows tasks for this Sprint only.



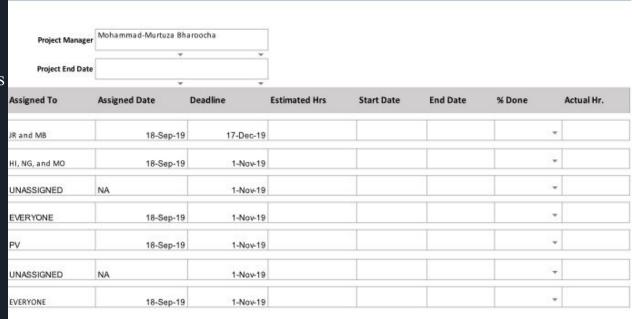
Project Tracking Matrix

Healthy Belly Project Tracking Matrix

Project	Healthy Belly		-						
Project Start Date		September 2nd, 2019							
Task	•	Task Type		Task Status		Est SLOC	Actual SLOC	Priority	
UI Design	·	Enhancement	÷	Assigned	÷	<800		High	
Backend (D	atabases & Servers)	Development	-	Assigned	÷	>1000		High	- 5
API		Development	-	Created	*	<1000		High	2
AI/Machine	Learning	Development	-	Created	¥	<1000		Medum	,
R&D		Customer Issue	-	In-Progress	¥	Not Applicable		High	- 4
User Login (Credential *	CustomerIssue	-	Created	÷	<500		Low	8
Testing And	Developing	Bug	-	In-Progress	•	Not Applicable		Medum	2
- · · · · · · · · · · · · · · · · · · ·									
Total Hou	urs Spent		0						
Project P	rogress	0.0	00	%					

Project Tracking Matrix

Project Tracking Matrix is best used for breaking down the project into multiple sections so the Project can be divided and be assigned to group members. Some items together on it after they complete their assigned work. Deadline is universally assigned, and is **subject to change**.



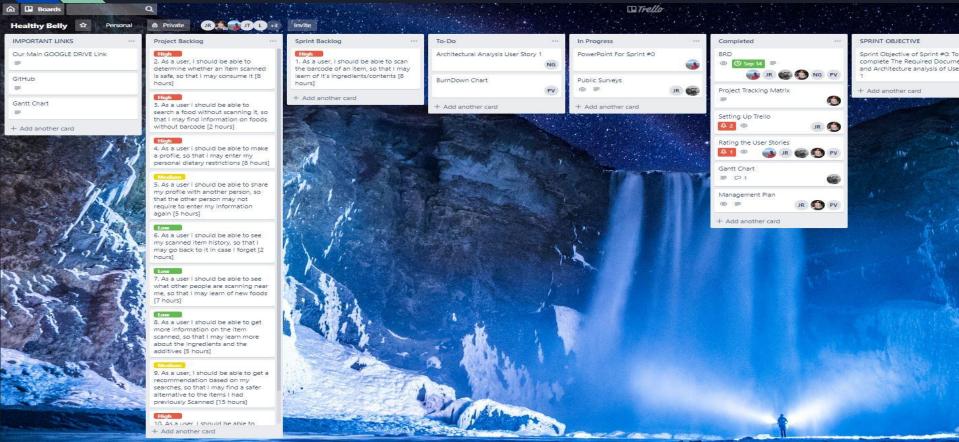
Burndown Chart

A burndown chart is a graphic representation of how quickly the team is working. The burndown chart shows the total effort against the amount of work for each iteration. Below is the burndown chart for Sprint #1. We started with Business Requirement Document as our base description document and then proceeded with Project Tracking Matrix, Gantt Chart, and

Burndown
chart. We then
combined
everything together
to make a
Management Plan
Document.

4	A	В	С	D	Е	F	G	Н	1	J	K	L	М	N	0
1	Task	Start hours	week 1	week 2	week 3	Total Hours									1
2										В	urndow	n chart			
3	Business Requirements Doc	18	E	5 4		5 15		80	70						
4	Management Plan	18	(8 (3 8	3 16		70	/5		- 66				
5	Project Tracking Matrix	5	1	l 1	. 8	3 5		60							
6	Gannt Chart Setup	5	() 2	! 2	2 4		- 50 - 50			48.7				
7	Burndown Chart	4	() 2	2	2 4		Semajug 50 40							
8	Powerpoint for spring #1	18	C) 9	9	18		30 Hours				32	.4		
9	Architectural Analysis	4	() 3	3 2	9		£ 30						21.6	
10	****							20							
11	Actual Hours Remaining	73	66	5 37	(0		10						6	
12	Estimated Remaining Hours	73	48.7	32.4	21.6	5 0		0 (2)	B		n n			C	7111111
13									Business Requirements		agement Pla	n Project Ma	Tracking trix	Gannt Chart S	etup
14											mana and an object of the second			Nacional Control of Co	
15									Acti	ual Hours Rer	naining	Estimate	d Remaining	Hours	
16															
17															

Sprint Board (TRELLO)



First Architectural Analysis

- Architectural Analysis of our first and most Important User Story:
 - "As a user, I should be able to scan the barcode of an item, so that I
 may learn of it's ingredients/contents"
 - The mobile takes a picture. The picture scans the barcode. After the phone recognizes the barcode it checks the information about it from the website(openfoodfacts.org). Then we check our database to see if any of the ingredients maps to our ingredients
 - Technology
 - Our Node server will be running on a cloud computer
 - Our users will be interacting with the android application running on java where the camera application will recognize the barcode
 - A user can search for our recommended products

Sprint Retrospective

- After the finishing Sprint #0 there are a lot of things that went well and things that we can improve on.
 - The Pros:
 - Constant communication between all the members of the team.
 - Workload Divide
 - o The Cons:
 - Team change, having members leave and new members join caused a few issues (bringing up to speed on objectives)
 - Finding the best sources and references
 - Moving Forward:
 - Time Management needs to improve, since this was our first go at tasks together

For Next Sprint

- Begin working on a simple UI Design
- Begin User Manual for Code Release
- Gain better understanding of how to use Android Studio
- Plan out how our Database will be structured
- Complete Project Requirements Document
- > Update Business Requirement Document
- Update Management Plan Document

End of Presentation!

Thank you for your time!

QUESTIONS??