Creating Great Mobile Apps

Professor Larry Heimann Carnegie Mellon University 67-443: Mobile Application Design & Development A couple of business items...

N Т Ε R A С Т 0

What is

desidn really about?

R A Ε 0 F F S So what makes a great mobile app?

Understanding the mobile mental model

- "I'm micro-tasking."
- "I'm local."
- "I'm bored."

Play To The Strengths Of Mobile

- Communications
- Spontaneous
- · Geo-sensitive
- Short periods of use
- Focused activity
- Form-factor/size limitations

Making intuitive apps

ы. AT&T 穼

Desian

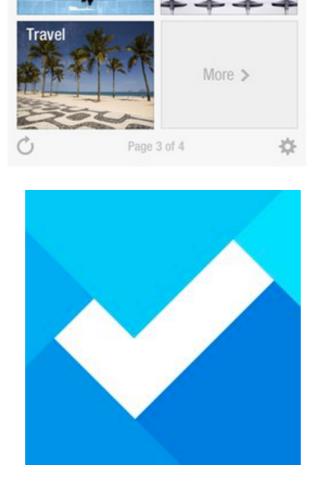
Technology

E.

Flipboard







2:30 PM

Autos

500px: Editors'

hoice

È



Finding the right project idea

Blue Ocean Innovation

Winning by creating an uncontested market space and making the competition irrelevant

"Red Ocean" versus "Blue Ocean"

Red Ocean Strategy	Blue Ocean Strategy		
Compete in existing market space	Create uncontested market space		
Beat the competition	Make the competition irrelevent		
Exploit existing demand	Create and capture new demand		
Make the value-cost trade-off	Break the value-cost trade-off		
Align the whole system of a firm's activities with its strategic choice of differentiation or low cost	Align the whole system of a firm's activities in pursuit of differentiation <i>and</i> low cost		

Solving a pain point

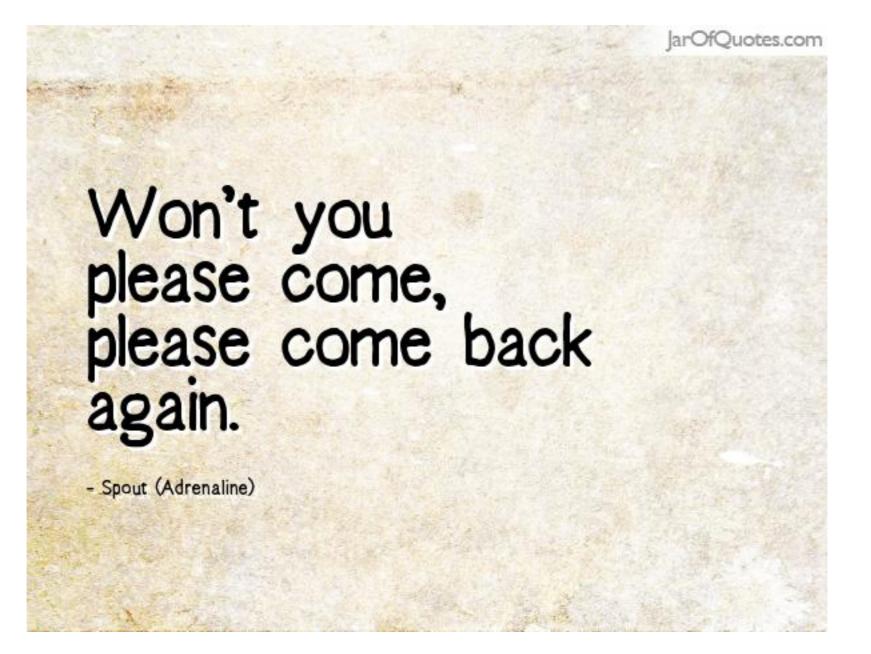


Seeking an audience

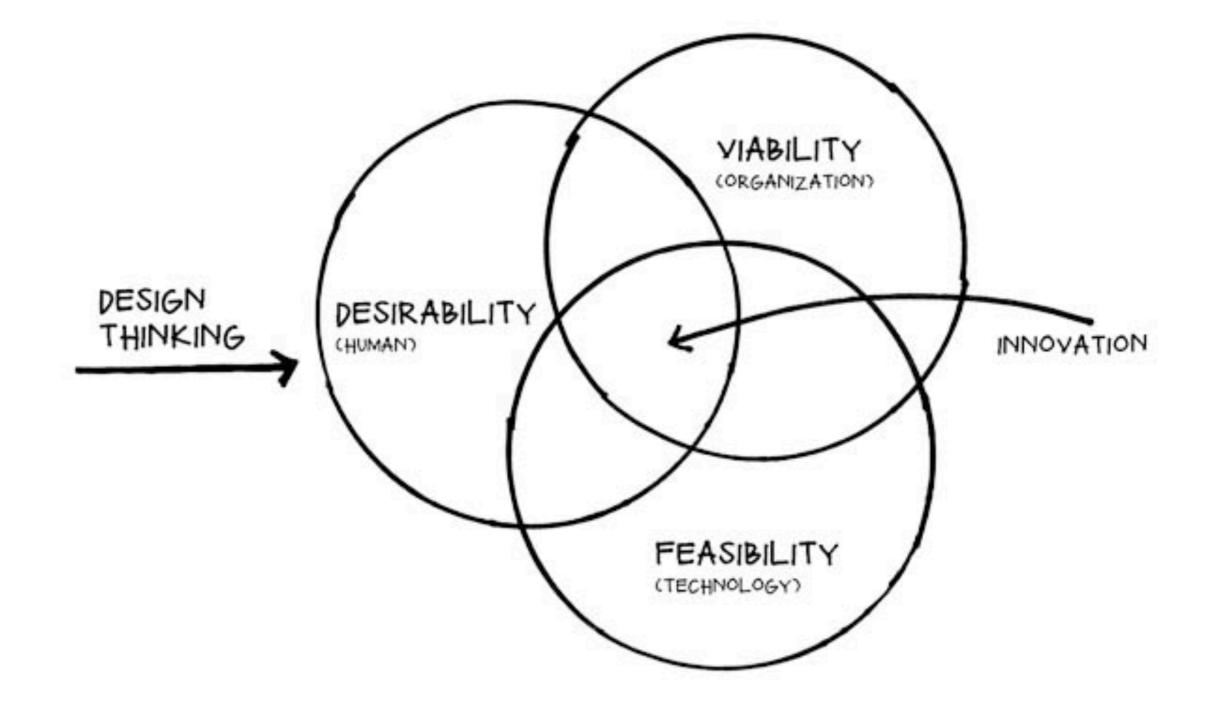
What's your Niche?



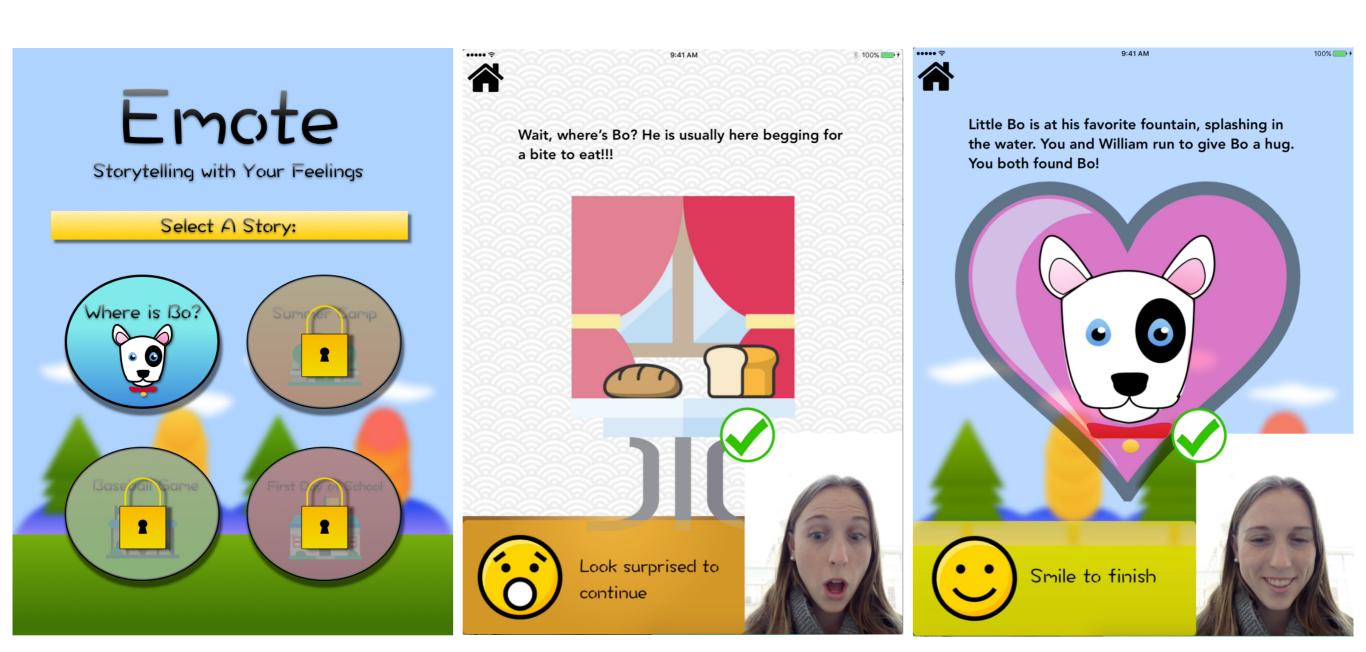
What is your app's "life span"?



Desirability—Feasibility—Viability Framework



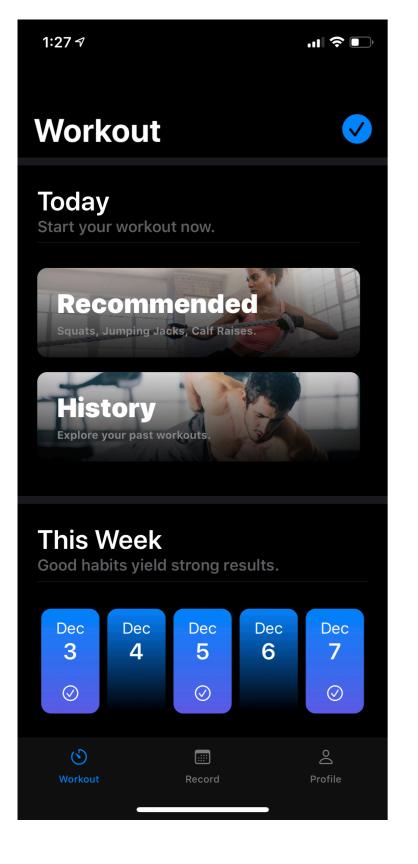
Looking at one past project in more detail

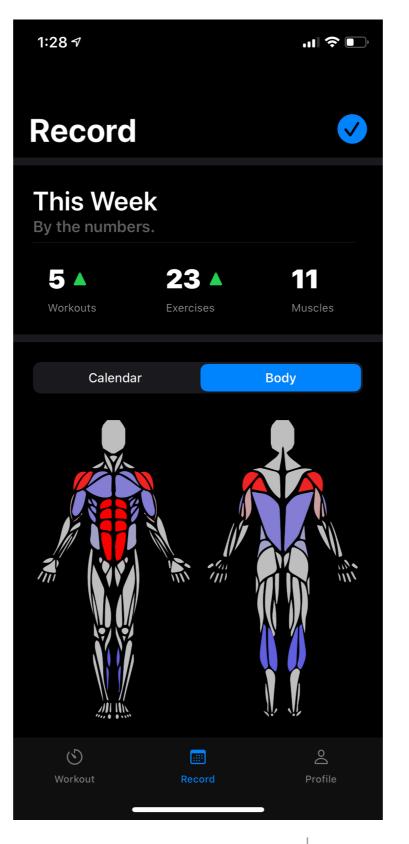


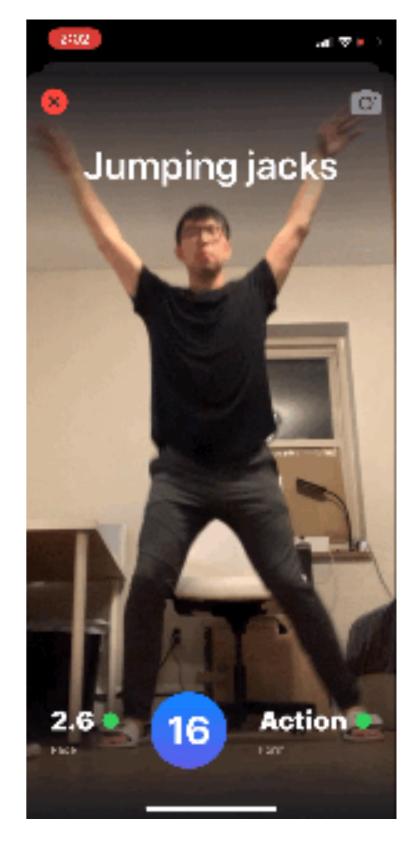


Becca Kern & Natalya Buchwald

Other past class apps

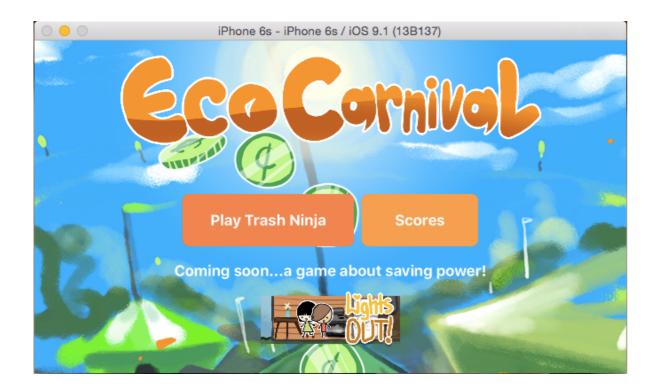


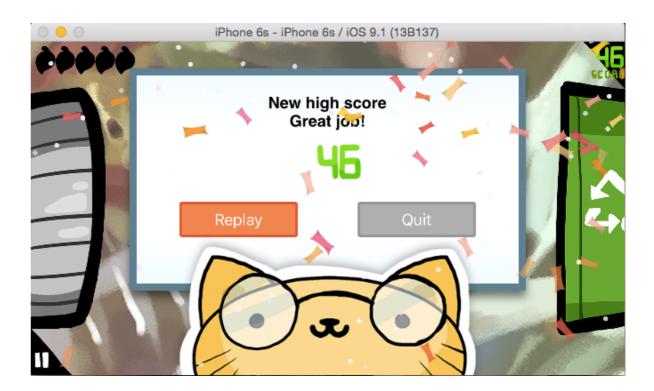




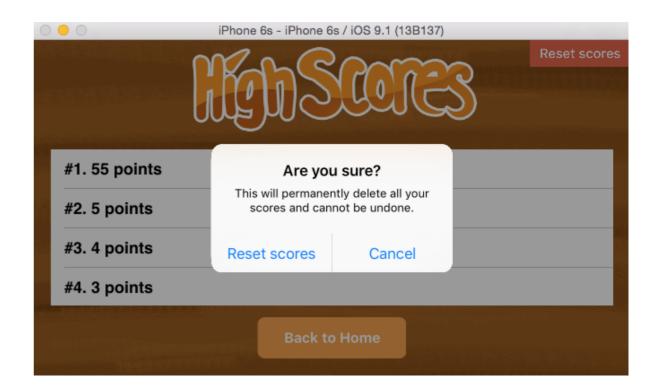
Fitnetic Wilson Yu

Calvin Liu Wilson Yu Christina Chou



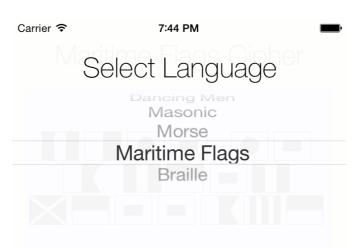






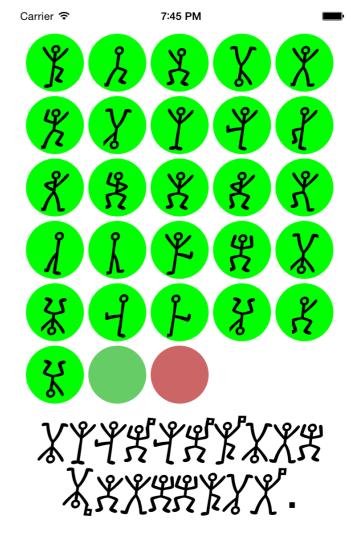
EcoCarnival Angela M. Liu





The system of international maritime signal flags is one system of flag signals representing individual letters of the alphabet in signals to or from ships. Each flag spells an alphabetic message, letter by letter. Individual flags also have specific and standard meanings.

Done



Toggle

Done

dancingmen

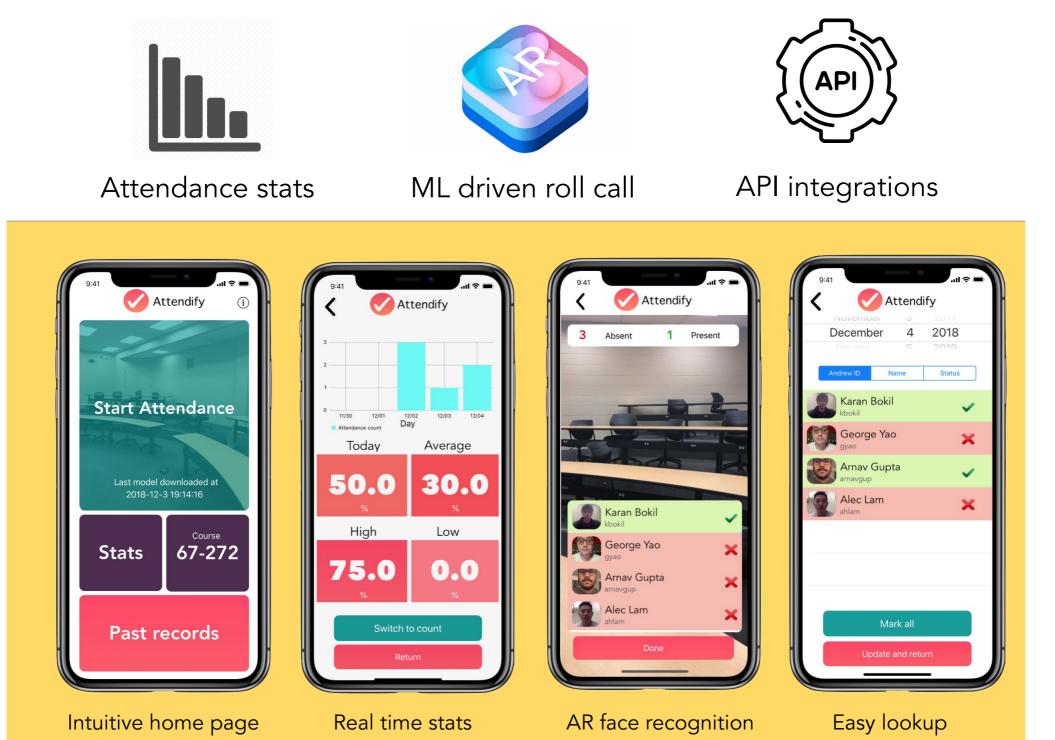
Melanie Freeman





67-442 Arnav Gupta George Yao

Attendify provides an easy way for professors to take and manage attendance of their courses. We seek to remove the sign up sheets and roll call methods that are time consuming and inefficient.





Developed by Olivia Liu Tino Lyu Zimo Yang

Collection

Delti

Delti is designed to let users personalize their postcards in an electronic format and send to their friends and family in a convenient way.

Event Management Simplified

The Problem

Managing event attendence can be a pain. Especially for busy college students, it can be hard to keep track of all the invitations you sent and check everyone in at the event efficiently.



Our Solution

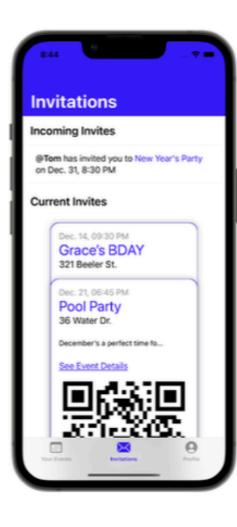
Bouncr streamlines the event management process by providing a platform to create events, keep track of invitations, and check-in guests at the door.

8-31	- *
Your Events	
Ongoing Events	
Dec. 6, 08:20 PM 443 Project Fair • 5032 Forbes Ave.	8
0 / 6 guests checked in More Details	n
Upcoming Events	
Dec. 14, 09:30 PM Finals Week Party 4800 Forbes Ave.	2 guests invited
More Details	ŧ
Your Events Instations	<u>ө</u> ```

Bouncr

Easy Event Creation

Event hosts can create events and advertise their details to guests of their choosing. All the events they host are compiled into one handy screen



Digitized Checkin

With Bouncr, hosts can generate and send invites to their guests in just a few taps. Those guests can later easily gain access to the event by scanning the QR code attached to their invitations.

8:58 K Back	nt Coding	Party
1/3	0	
Location: Date/Time:	123 Flifth Ave, Pittsburgh, PA, 1 Dec. 2, 9:08 PM Dec. 29, 9:08 PM	EST to
About:	Woot woot	
Your Events	Instations	Profile

Live Statistics

Hosts and guests can keep tabs on how busy an event is as they wish. Potential attendees can use this to decide whether or not to attend the event; no one really wants to arrive at an event that's died down (RIP All-night Coding Party)



When you're historically curious where do you turn?

Turn to TimeFeed. Your all encompassing today-in-history app.

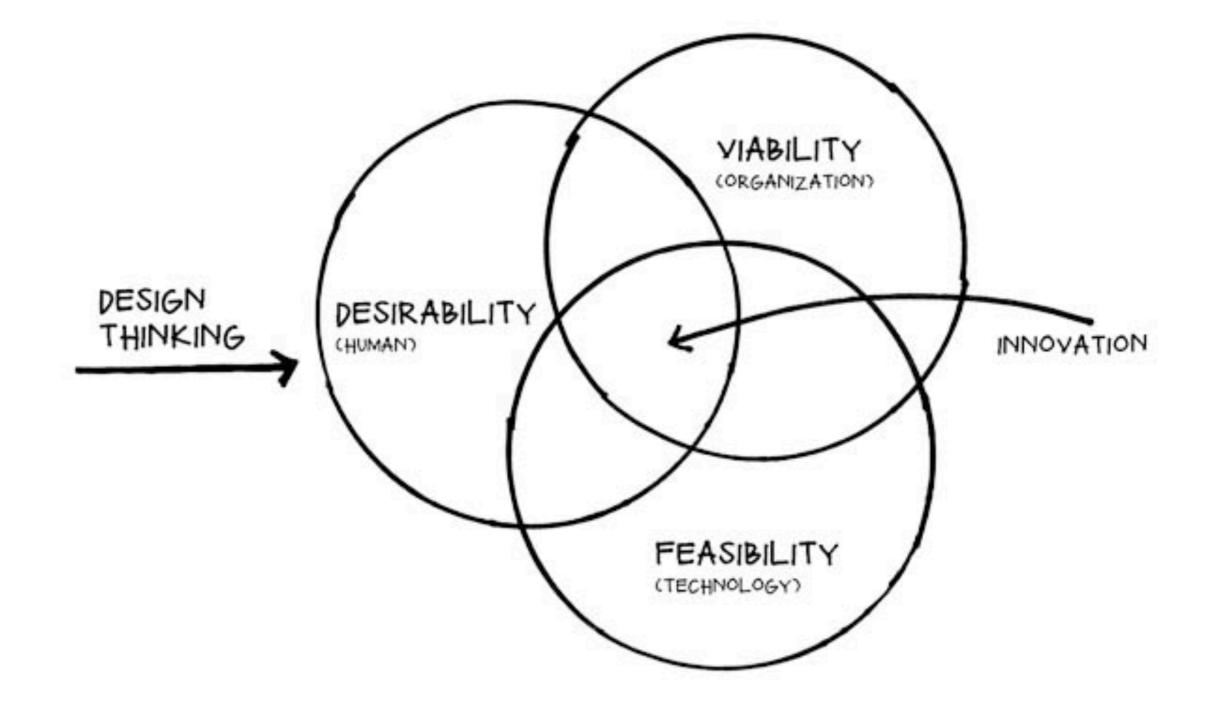
- Read about events from all of history
- Wish famous people a happy birthday
- See who met their end
- Find the #1 song for any year

- Explore endlessly with Wikipedia
- Listen immediately with Spotify
- Share your new knowledge with your friends
- Save to avoid losing info for a year

l wonder what happened today in 1992.			Who's birth celebrate t	
It NET 215 AM 0 4 80% Events Sort A firebomb is thrown into a restaurant in the gyptian capital of Cairo, killing 17 people. 2015 Istamic insurgents kill three state police at a traffic circle before taking an empty school 2014 Six black youths assault a white teenager in jena, Louisiana. 2006 Tens of thousands of people in Hong Kong protest for democracy and call on the gove 2005 The Unity Module, the second module of the International Space Station, is launched. 198 Somali Civil War: President George H. W. Bush orders 28,000 U.S. troops to Somalia 199 The American World Airways ceases its operations after 64 years. 191 Image: Imag	Image: Artist to a result to a resu	 Inter a construction of the station o	1995 Danny Lu league p 1995 Grant W 1994 Ondrej D 1993 Ilja Anto 1993 Jacopo S 1991 Montee 1990	Births Martial, French footballer evi, New Zealand rugby

Less successful apps

Desirability—Feasibility—Viability Framework



🚥 Verizon ᅙ

Henry-St Henry-

Au Bon Pain 0.05 mi

The Exchange 0.11 mi

••••• Verizon 🗢 6:08 PM

Two Egg and Cheddar Sandwich Back

1 0 68%



HabEat Index: 4.0

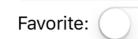
Calories: 450

Fat: 16 grams

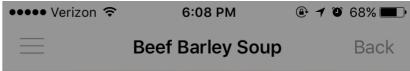
Cholesterol: 345 miligrams

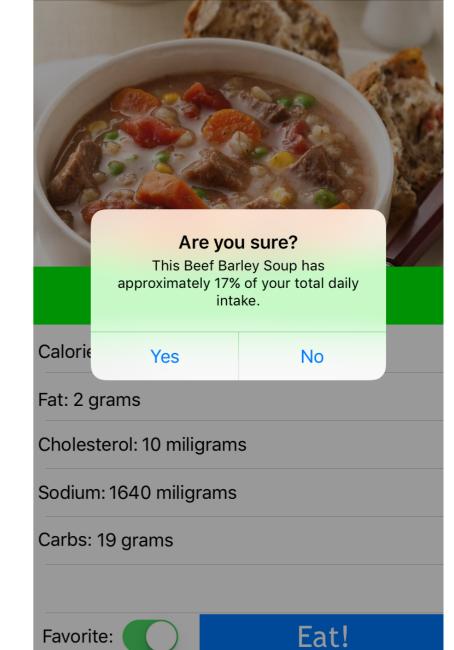
Sodium: 620 miligrams

Carbs: 51 grams



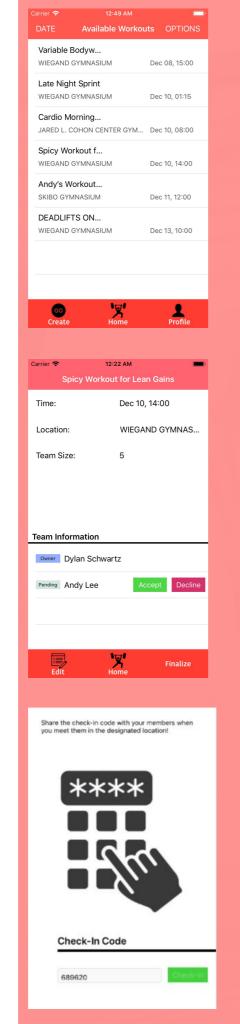
Eat!







Carrier 🗢	7:33 PM	1	Carrier 奈	7:35 PM	1 💼	Carrier 奈	7:36 PM	1
Ne	ear By Restaurants		K Back	Union Grill				
Union Grill		>				Thank y	ou for reserving at Unior	n Grill
The Porch		>						
Rose Tea Cafe	2	>					Your waiting time is	
			ALL ALL		YINY	0 hc	ours and 12 minut	es
				Union Grill				
			0 hou	urs and 13 min	utes			
			Par	ty Size				
				Hop In Line!				
					Cancel Reservation			
Home	Queue		Hom	e Que	ue	Home	Qu	eue
				Queue				



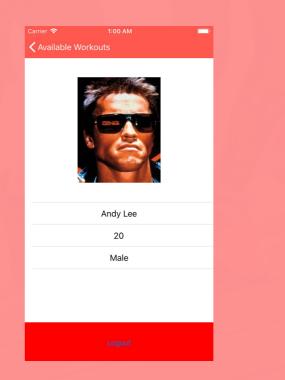
STEP 1: Browse through workouts

STEP 2: Manage or Join Workouts GymBros, a platform for people who want to workout together.

Our platform Goal : Support those who want to improve physical health and enjoy the process.

We allow our users to <u>create</u> and join workout sessions, with additional features such as <u>check-in</u> so working out is never a chore, but always a <u>commitment</u>.

STEP 3: Check-In Workouts

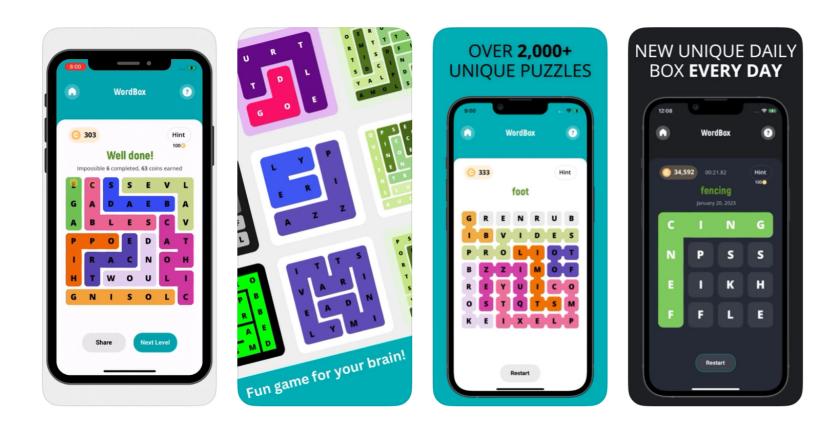


OPTIONAL: Personalize Your Profile An app that allows you to scan barcodes of items in a given store (determined by your geolocation) to see the item's current price, displayed on your phone and saved for future reference.

Evaluate such an app in terms of its:

- Desirability
- Feasibility
- Viability

For next time...



Course alumnus James Ormond: "Measuring User Behavior (in Mobile Gaming)"

Get WordBox at:

