



KRISHNAN VIJAYARAGHAVAN

USER EXPERIENCE DESIGNER

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about me



who am i?

A passionate UX Designer who designs products that are functional, beautiful and easy to use.

my experience

With more than 3 years of work experience as a UX Designer working for internationally renowned clients like Nokia and AXA Insurance, I have created wireframes, UI mockups, developed front-end solutions using HTML/CSS, whilst supporting the entire process with UX analysis and usability tests. I have also worked as a freelance UX Designer where I worked with start-ups for whom I designed and developed user-friendly and graphically rich websites.

my education

I have a strong educational background in both technical and design fields, holding degrees from highly reputed universities where I created challenging UX and interaction design based projects. I have done research work on many UX based topics and I have been selected as one of the emerging talent in the field of digital art, design and media production

what makes me unique?

My educational background in the fields of technology and design gives me the advantage to bridge UX teams with developers. My technical background helps me to comprehend and predict technical challenges and limitations during UX prototyping and I have the knowledge to provide solutions for them as well.

UX PORTFOLIO

01 LETS GO HOME *P04*



02 CYCLE TO CYCLE *P22*



03 ACCESS:MAC OS UI *P40*



01 LETS GO HOME

01 LETS GO HOME



what is it?

'Let's Go Home' is a mobile app that uses geolocation services to provide a safe journey for kids walking back home after school. In an event where they enter (or interact with) a crime or traffic sensitive zone, the app alerts the child to change their path and take an alternative route. The app can also be used by parents for monitoring and supervising their kids journey.

who is it for?

The target audience for the app are Primary School Children (ages 9-11) who generally walk back home alone from school and for their Parents. The app we developed is tailored for parents residing within Elephant & Castle, London.

why is it needed?

In the past 30 months there have been 300 people killed, seriously injured or slightly injured on the roads around Elephant & Castle and the roads are becoming death traps for school children. We needed to create an app that could provide a safe journey for the kids walking back home after school.

01 LETS GO HOME



Project Members:

Anna Seulbi Lee: UI & Graphics Designer

Ban Li: Project Manager & UX Analyst

Krishnan Vijayaraghavan: Prototype Developer & UX Analyst

Time Period:

45 days (December 2012 to January 2013).

Tools Used:

Wireframing: Balsamiq

Prototype: HTML5, jQuery, Google Maps API

01 LETS GO HOME

RESEARCH

User Research:

Since it was hard to do research on our user group and we were on running on a tight deadline, we decided to do a quantitative study on their habits. We made a survey form containing 8 carefully selected questions and it was given to 30 parents. 24 parents got back to us with their feedback and the results are given below:

NO	QUESTION	MAJORITY	YES	NO	NA	INFO
1	How old is your child?					9-11,10-9,11-4
2	Does your child go back home from school alone?	NO	7	17	0	
3	Would you like to train them to go back home from school alone?	YES	15	7	2	
4	Would you like to use a mobile app that will enable your child to have a safe journey from school to home?	YES	18	4	2	
5	Do they have a smart phone?	NO	8	16	0	
6	If the answer to Q5 is YES, then which smart phone are they using?	BB			16	BB-4, SS-2,HTC-1,IP4-1
7	If the answer to Q5 is NO, then would you buy them a smart phone which will have safety feature for children?	YES	11	5	8	OUT OF 16
8	What would be the budget that you would spend on buying a smart phone for your child?					£65 AVERAGE

Research Conclusion:

1. Majority of the parents want to train their children to go back home alone after school.
2. The children do not own mobile phones, but they would buy them one with a price point of at least £65, if it provides a safety feature for the children.

01 LETS GO HOME



REQUIREMENTS



App Objectives:

After conducting the survey's we defined the following objectives for Let's Go Home:

1. There will be two versions of Let's Go Home. The Parent app will be used for monitoring and provide supervision of the child walking back home alone.
2. For the Children's app, we need to create an engaging (e.g. a game) and educational experience so that they can be trained to walk alone safely avoiding crime zones and be aware of road safety.
3. The app for the children should not endanger them from phone snatchers and also distract the child in traffic sensitive areas where they have to be very observant.



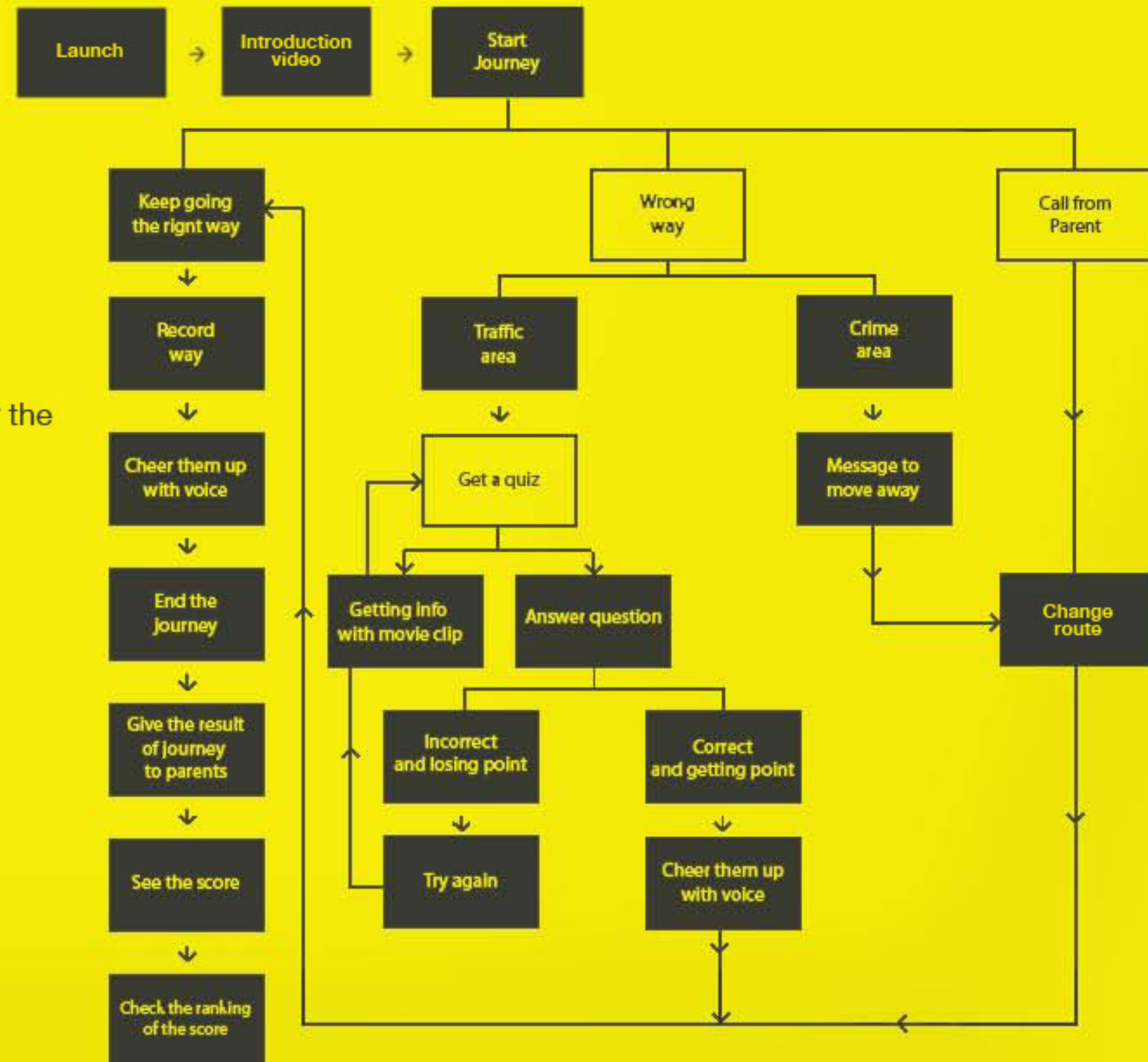
01 LETS GO HOME



PROCESS FLOW



Process Flow Diagram for the Kids version of the app.



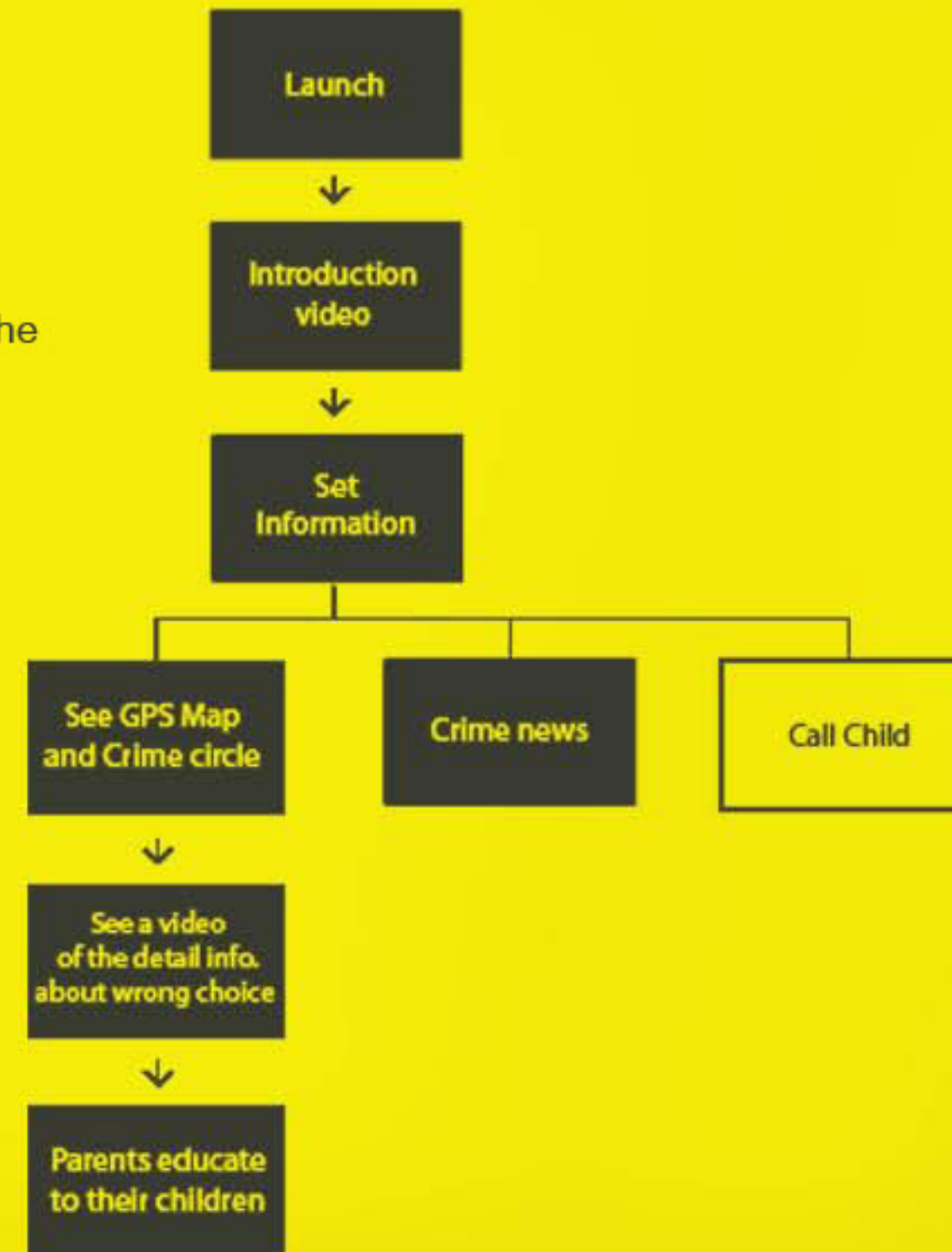
01 LETS GO HOME



● PROCESS FLOW

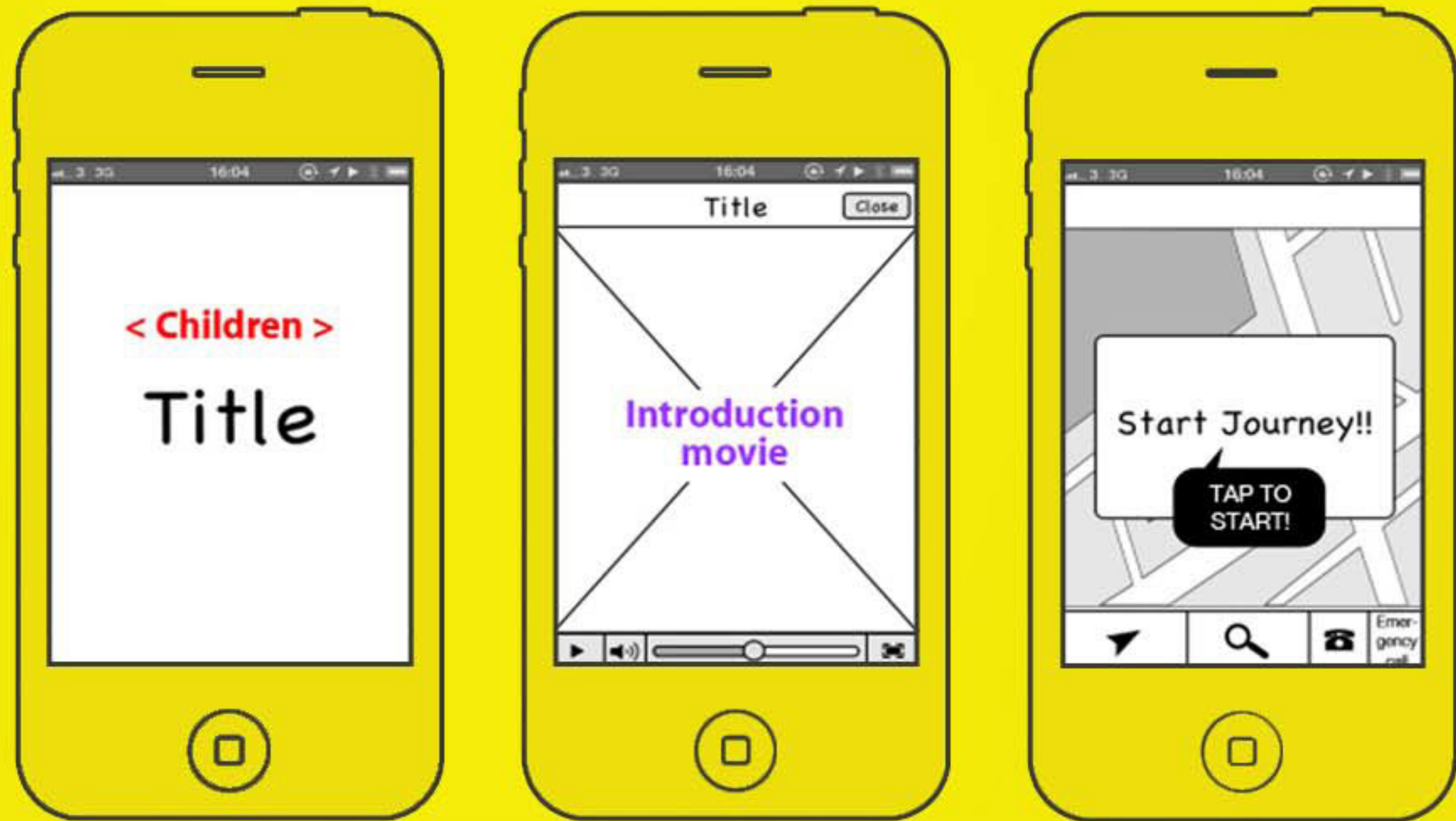


Process Flow Diagram for the Parents version of the app.



01 LETS GO HOME

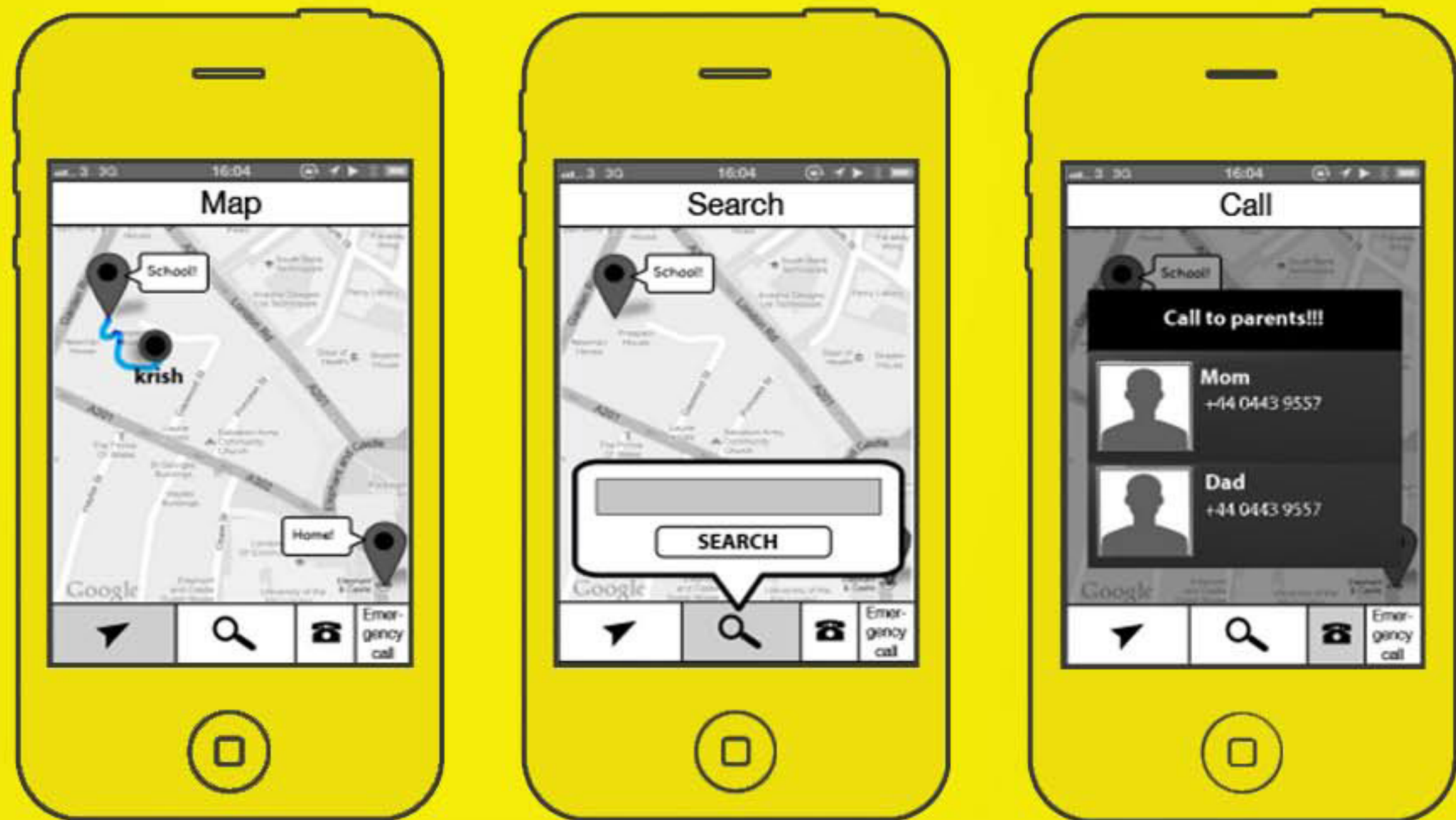
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- WIREFRAMING
-



Wireframes for the Kids version of Let's Go Home.

01 LETS GO HOME

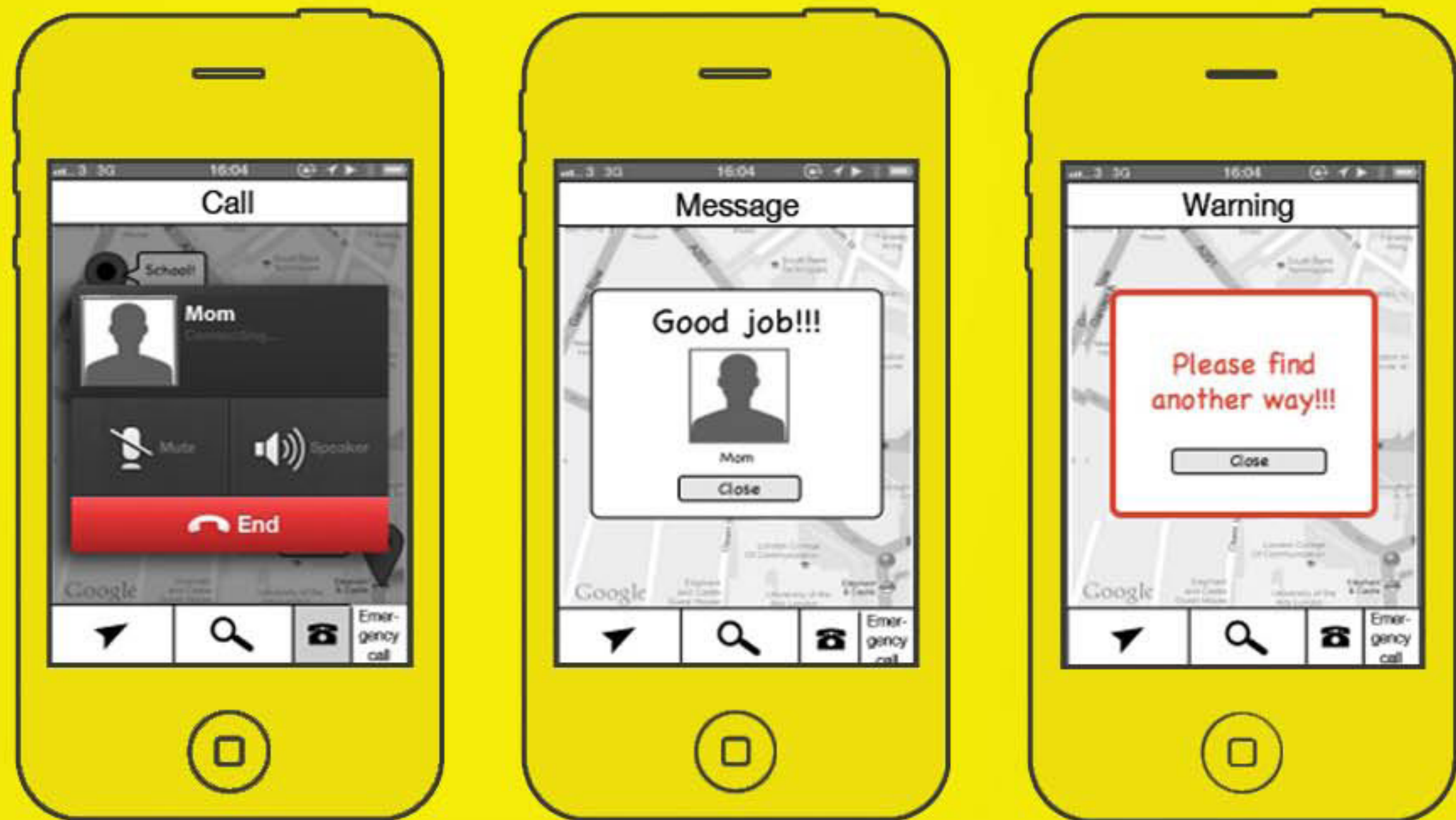
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- WIREFRAMING
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Wireframes for the Kids version of Let's Go Home.

01 LETS GO HOME

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- WIREFRAMING
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Wireframes for the Kids version of Let's Go Home.

01 LETS GO HOME

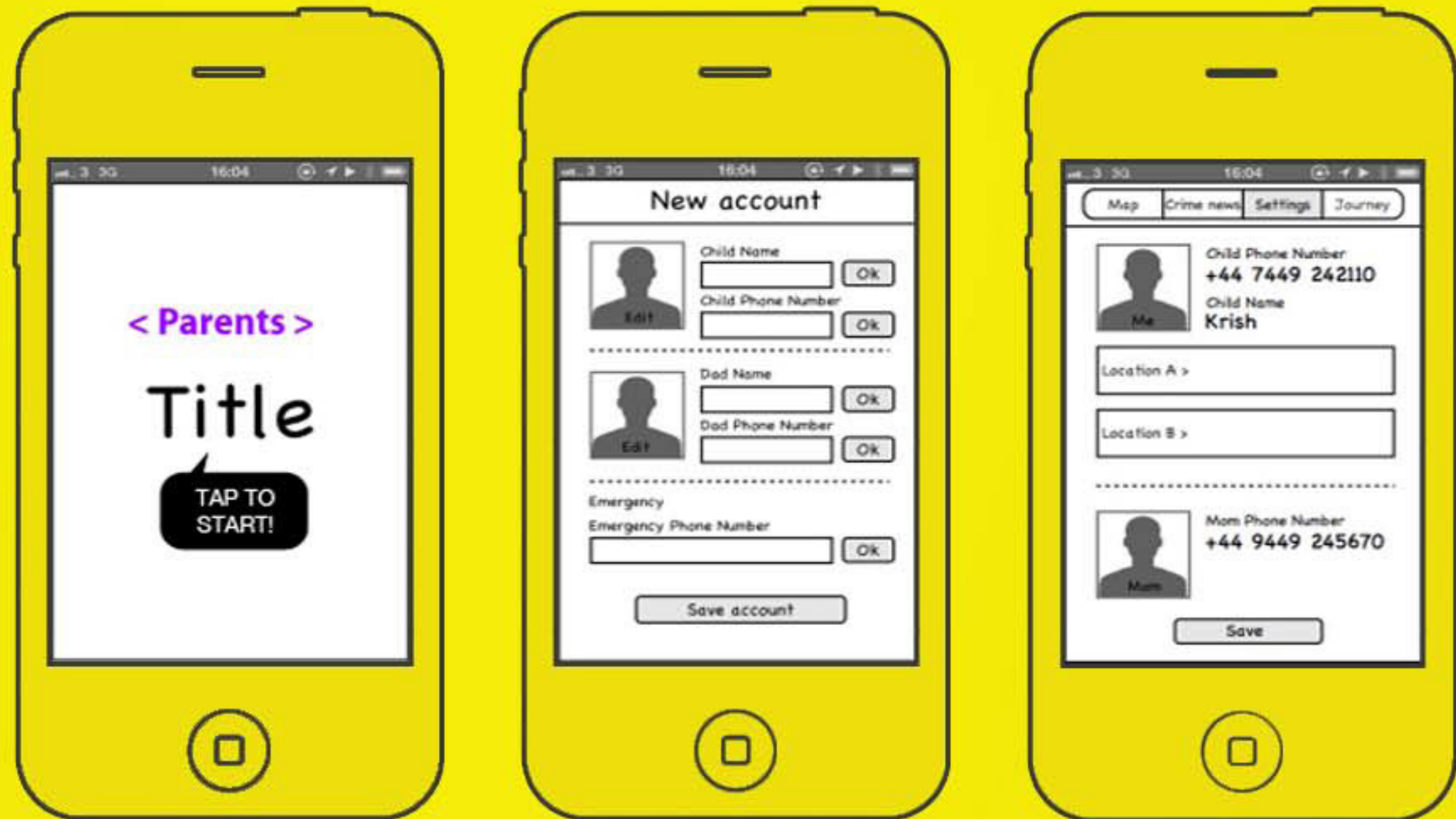
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Wireframes for the Kids version of Let's Go Home.

01 LETS GO HOME

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- WIREFRAMING
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Wireframes for the Parent version of Let's Go Home.

01 LETS GO HOME

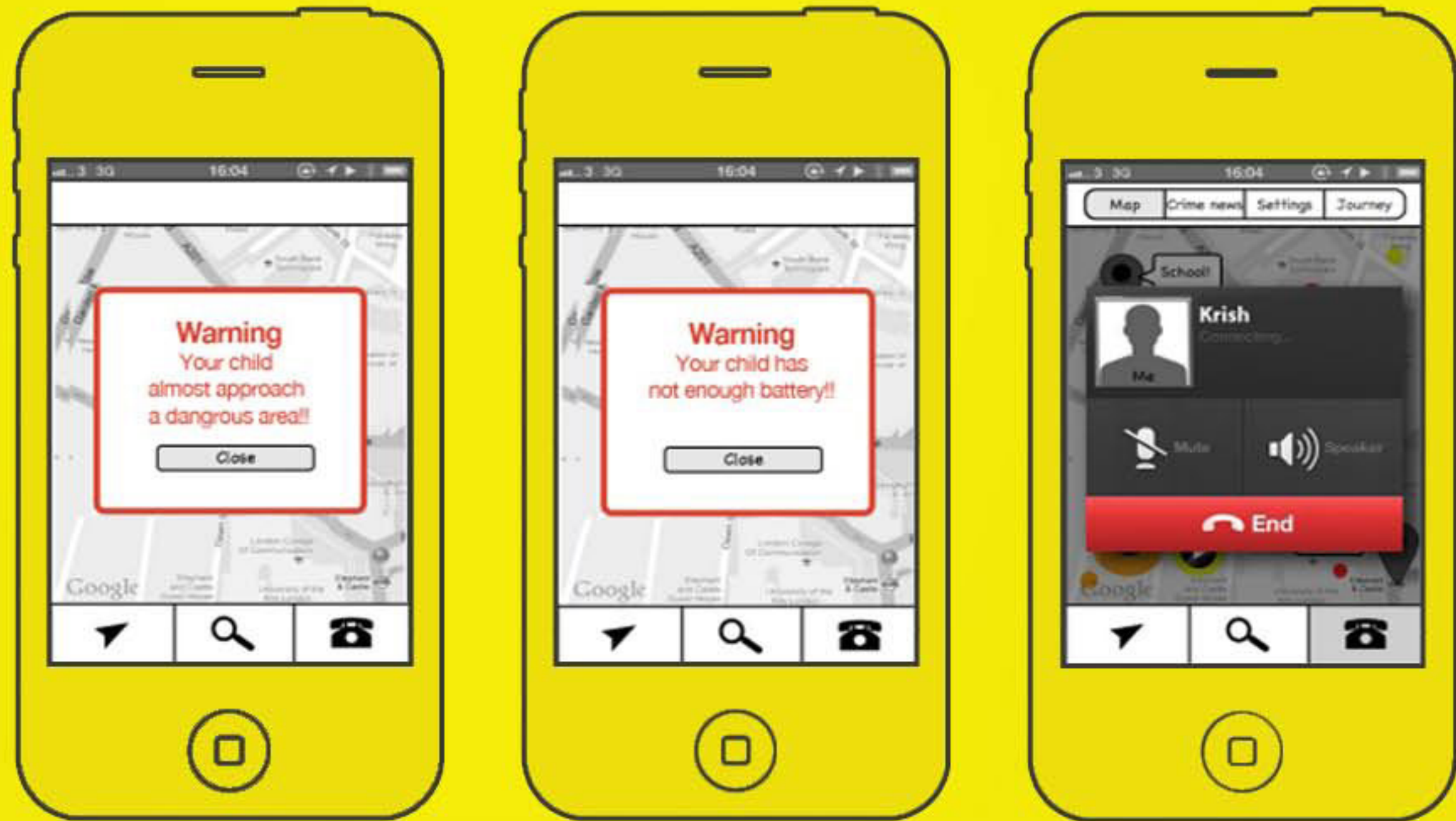
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Wireframes for the Parent version of Let's Go Home.

01 LETS GO HOME

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Wireframes for the Parent version of Let's Go Home.

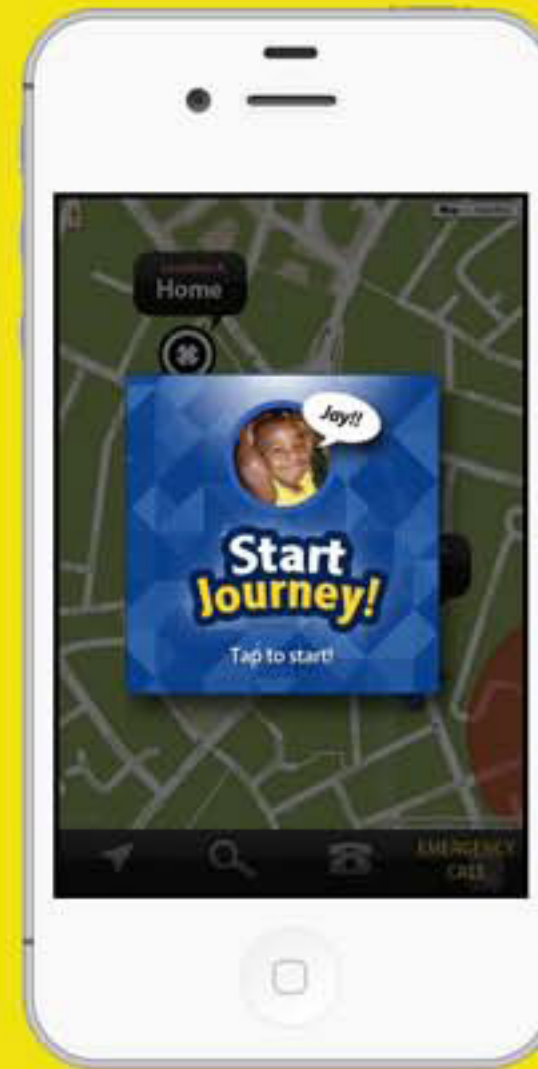
01 LETS GO HOME



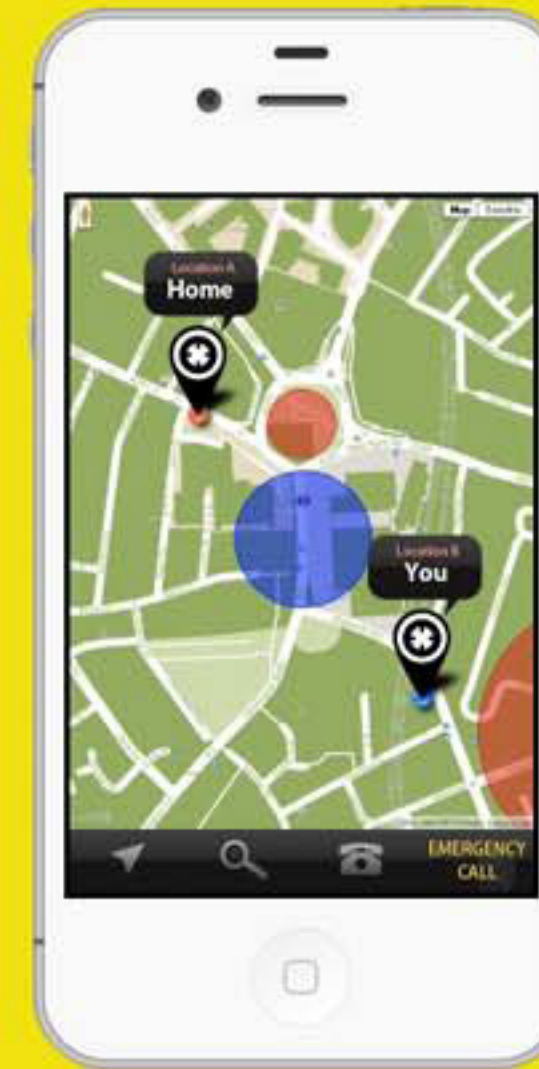
USER INTERFACE



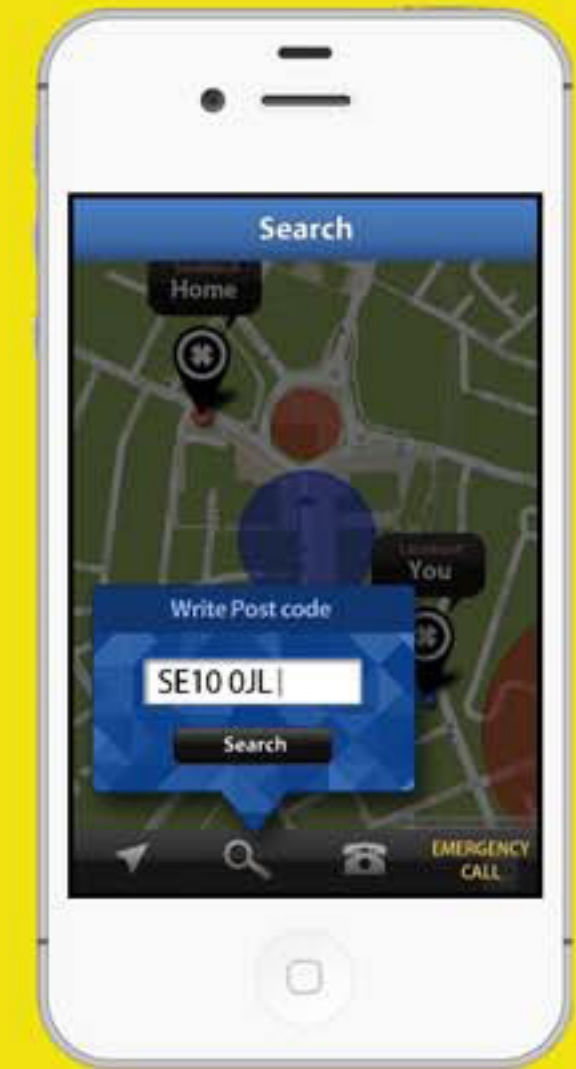
Title Screen



Journey Start



Map showing Markers
& Zones



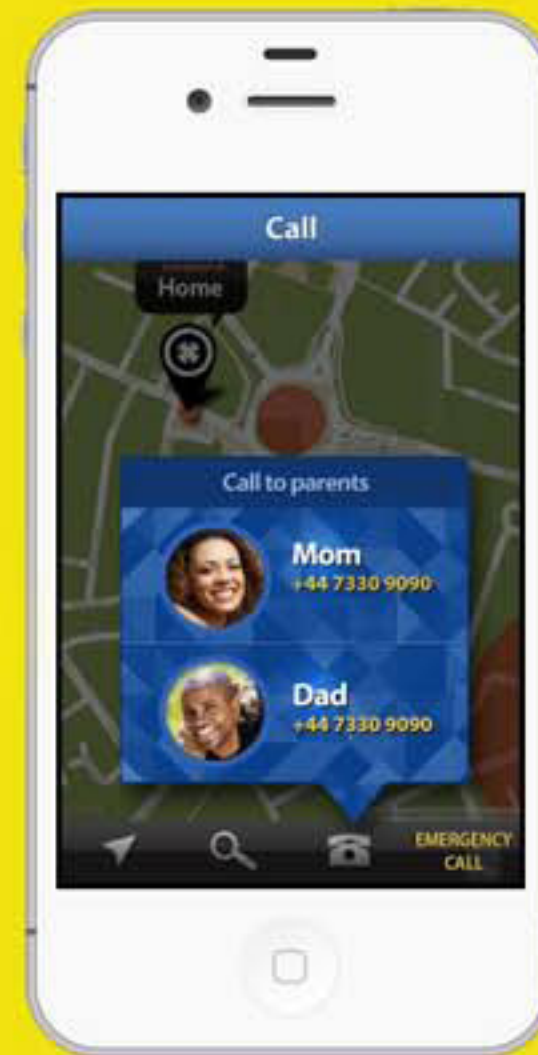
Search for Address

UI for the Kids version of Let's Go Home.

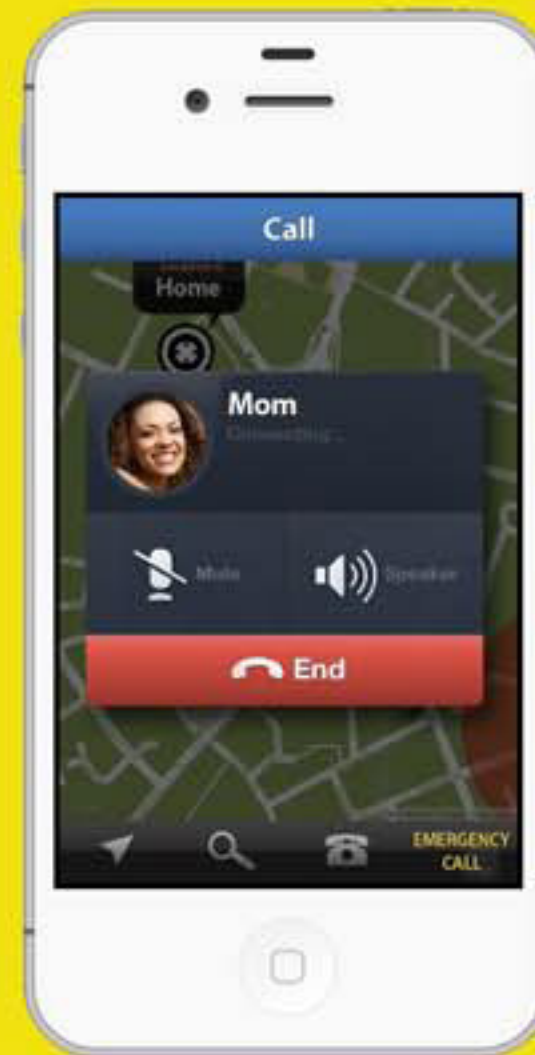
01 LETS GO HOME



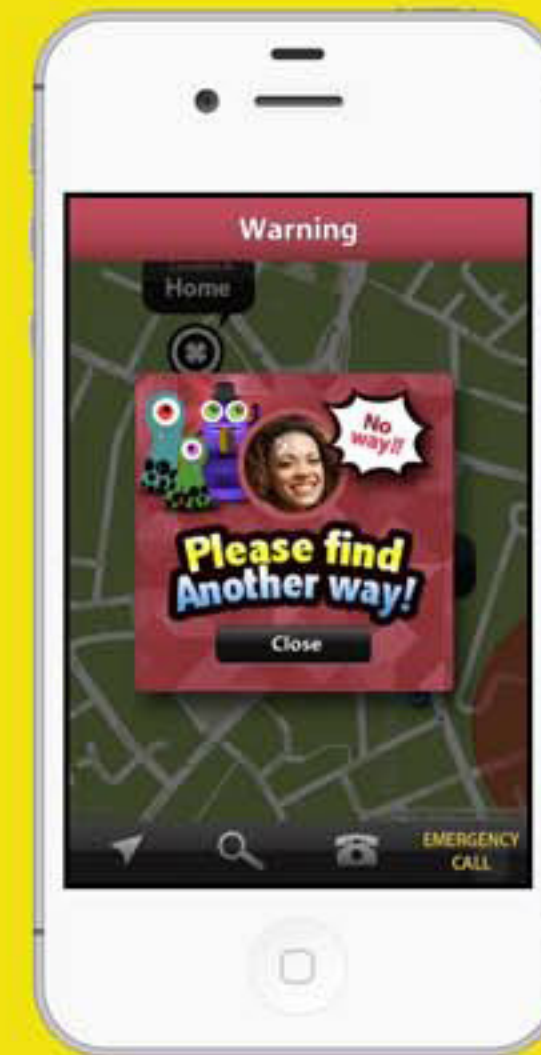
USER INTERFACE



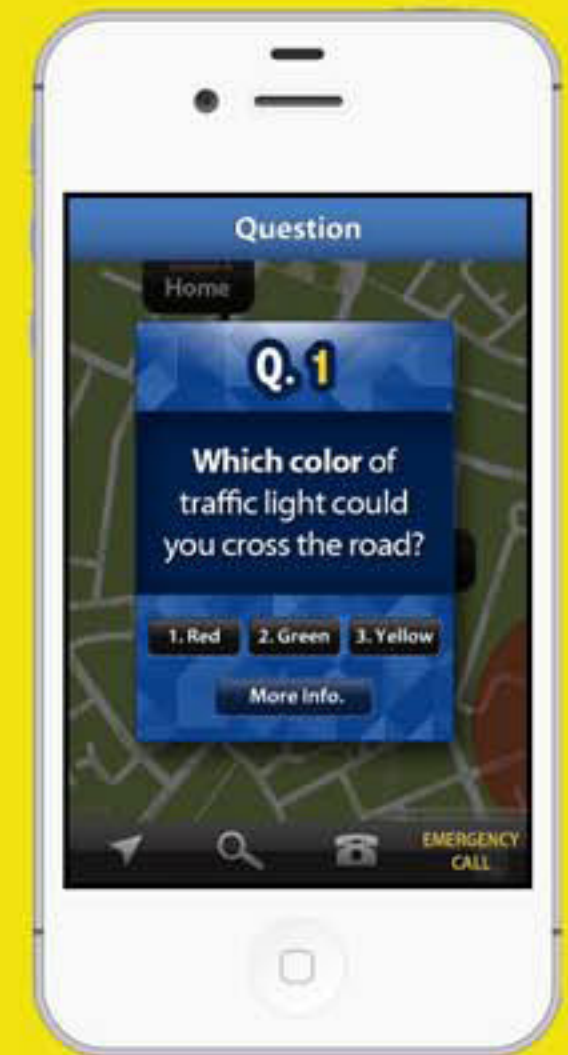
Call Parents



Calling Mom



Crime Zone Warning



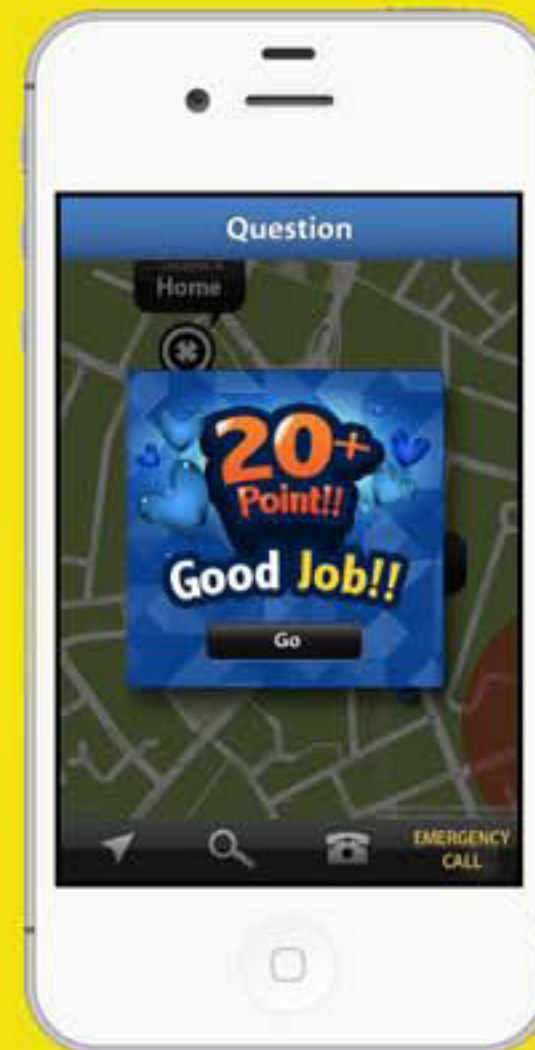
Traffic Zone Quiz

UI for the Kids version of Let's Go Home.

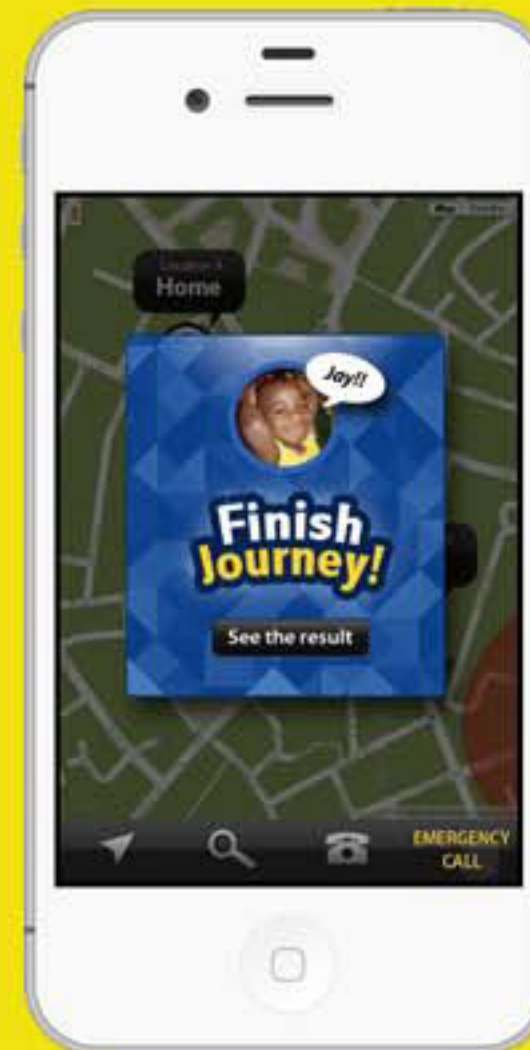
01 LETS GO HOME



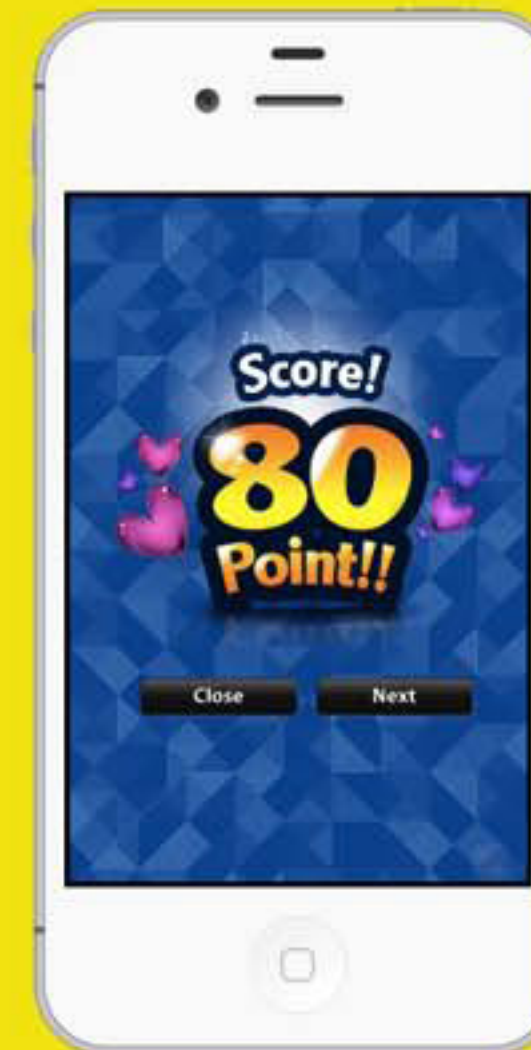
USER INTERFACE



Correct Answer!



Journey Complete



Journey Score



Class Ranking

UI for the Kids version of Let's Go Home.

01 LETS GO HOME



Paper Prototyping:

For our paper prototype test, we made cut outs of our wireframe prints, which were the having the same size of a smartphone screen. We used these cutouts and changed it as per the storyboard when our test user was giving inputs. The test results were used to make modifications with the wireframes that we had developed.

Usability Testing:

We conducted usability testing on kids and the analysis report of this test can be downloaded from the following link:

www.krishnan.co.uk/demos/docs/letsgohome.docx

Prototype Demo:

Kids Version: www.krishnan.co.uk/demos/KIDS/

Parents Version: www.krishnan.co.uk/demos/PARENTS



02 CYCLE TO CYCLE

02 CYCLE TO CYCLE



what is it?

Cycle to Cycle is a web app (mobile + desktop) developed for 56A Bike shop in London. It provides an online diagnosis tool that can help owners with basic bike repairs. The 56A Bike Workshop is a space for Do-It-Yourself repair shop that is run solely by volunteers, who provide free bike repairs and also teach the owners how to repair their bikes.

who is it for?

The target audience for the app are bicycle owners who are capable of DIY repairs. The app is tailored mainly for people who visit the 56A Bike shop for DIY repairs.

why is it needed?

The shop is encountering problems with limited space and number of volunteers, and they find it difficult to accommodate all their bike owners during peak hours. By providing an online diagnosis tool that can help owners with basic bike repairs, only necessary bike owners with major repairs need to come to the bike shop for help.

02 CYCLE TO CYCLE



Project Members:

Bona Lee: UI Designer

Mina Liu: Information Architect

Yaboi Wang: Project Manager

Krishnan Vijayaraghavan: Prototype Developer & UX Analyst

Time Period:

20 days (April 2013 to May 2013).

Tools Used:

Wireframing: Moqups

Prototype: HTML5, jQuery

02 CYCLE TO CYCLE

RESEARCH



Research on 56A:

The 56A Bike Workshop is a space for Do-It-Yourself repair shop that is run solely by volunteers, who provide free bike repairs and also teach the owners how to repair their bikes. The bike shop is part of the 56A non-profit Collective, which consists of an Info-Shop selling radical books and Fare-Shares, a food co-op selling organic and whole foods. It is located at Crampton Street in Newington, London.

We interviewed some of the volunteers and learnt that, by helping and teaching bike owners about repairing their bikes, the shop is trying to promote a philosophy that doing-it-yourself is a way of having control over your life.

Current Issues:

After talking to the volunteers, we learnt that the bike shop is facing the following issues:

1. Problems with limited space to accommodate all their bike owners during peak hours.
2. They are facing a shortage of skilled volunteers.
3. The public has little knowledge about the existence of this shop.

The lack of volunteers meant that the shop was only able to run for 4 days a week. This lead to a large number of customers coming in when the shop was open and it was challenging for the bike shop to accommodate all of them in the small space. With a limited number of facilities and budget the bike shop was not able to manage these issues that they have. We felt that we may be able to provide a digital solution for them that could be sustainable and also economically viable for them, considering the fact that it is a volunteer run organization.

02 CYCLE TO CYCLE



REQUIREMENTS

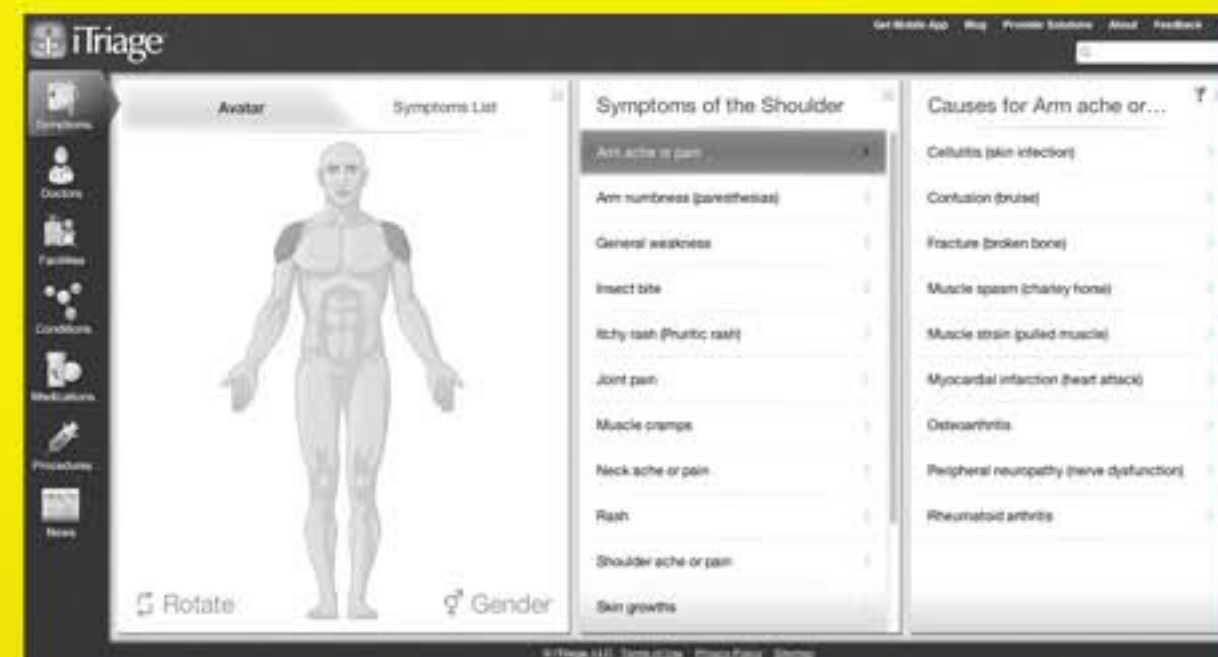


App Objectives:

After conducting interviews with the volunteers and customers at 56A, we defined the following objectives for Cycle To Cycle:

1. **Online diagnosis:** Bike, Tools and Repair
2. **Health Calculator:** Encourage more people to ride bikes
3. **Educate the public about their idea:** Self-reliance, Autonomy and Environmental Sustainability

The core purpose of the app is to take the pressure off the bike shop by reducing in-house repairs. The online diagnosis tool should be able to take care of minor bike repairs, where the user can repair their bike by watching selected video tutorials. This tool is emulating the technique of how an online medical diagnosis works for people. The user selects which part of their body that is having a problem, and the tool then shows a list of symptoms for that body part and it filters down to a final diagnosis.

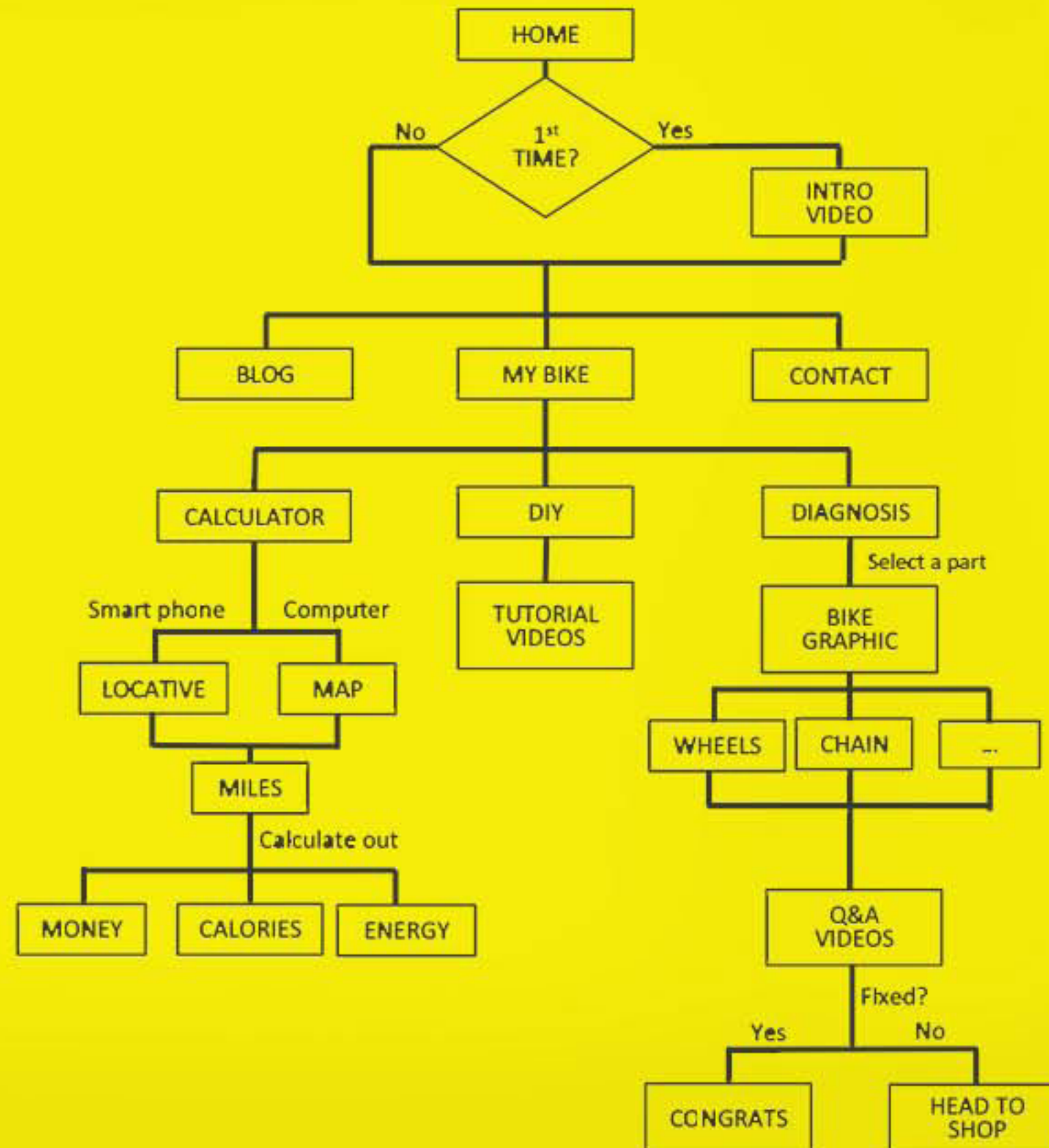


iTriage: An example of an online medical diagnosis tool

02 CYCLE TO CYCLE



● PROCESS FLOW

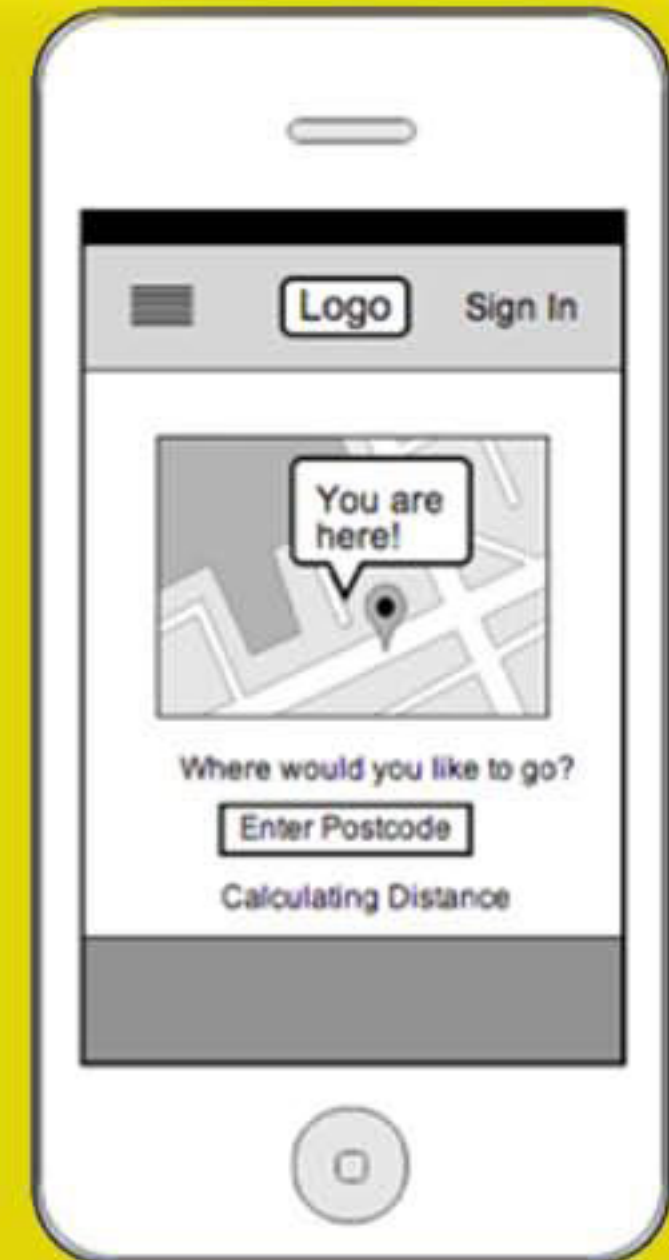
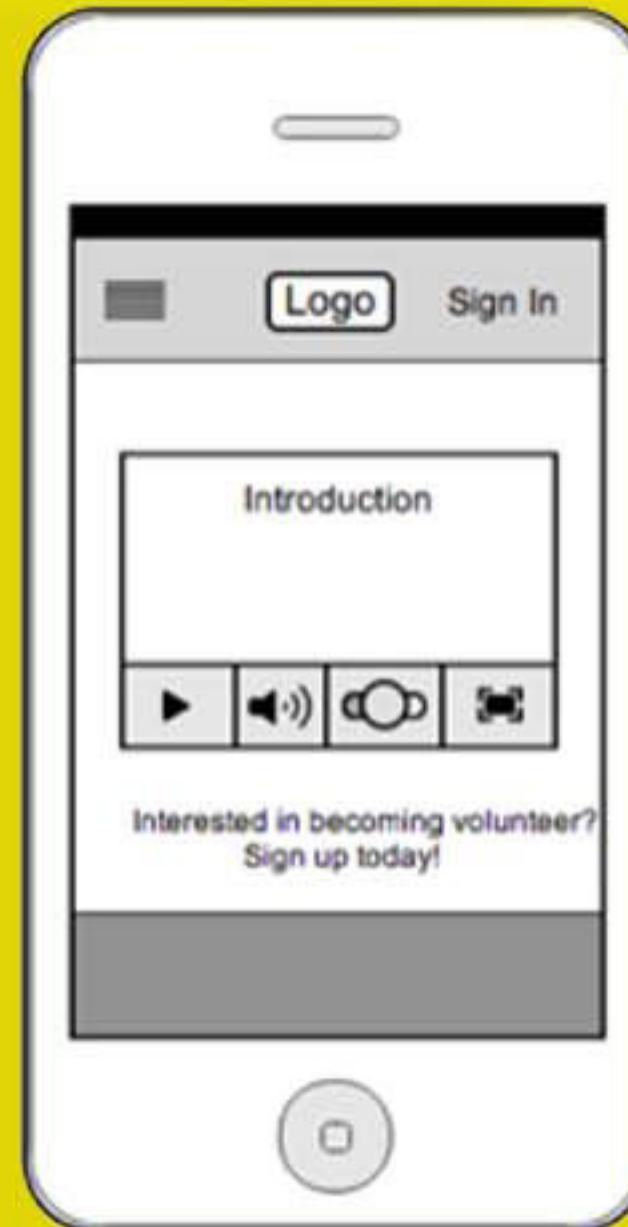


02 CYCLE TO CYCLE

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- WIREFRAMING
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Home page with menu bar



Calculator Page

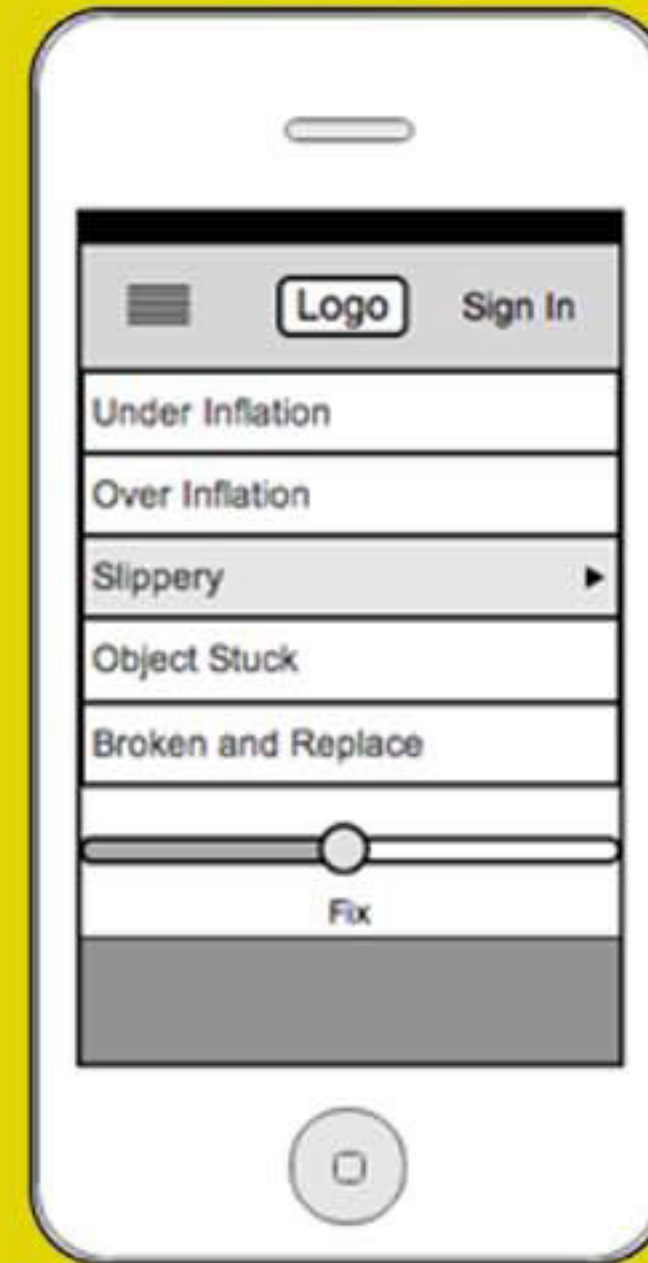
HOME PAGE + CALCULATOR PAGE WIREFRAME FOR MOBILE VERSION

02 CYCLE TO CYCLE

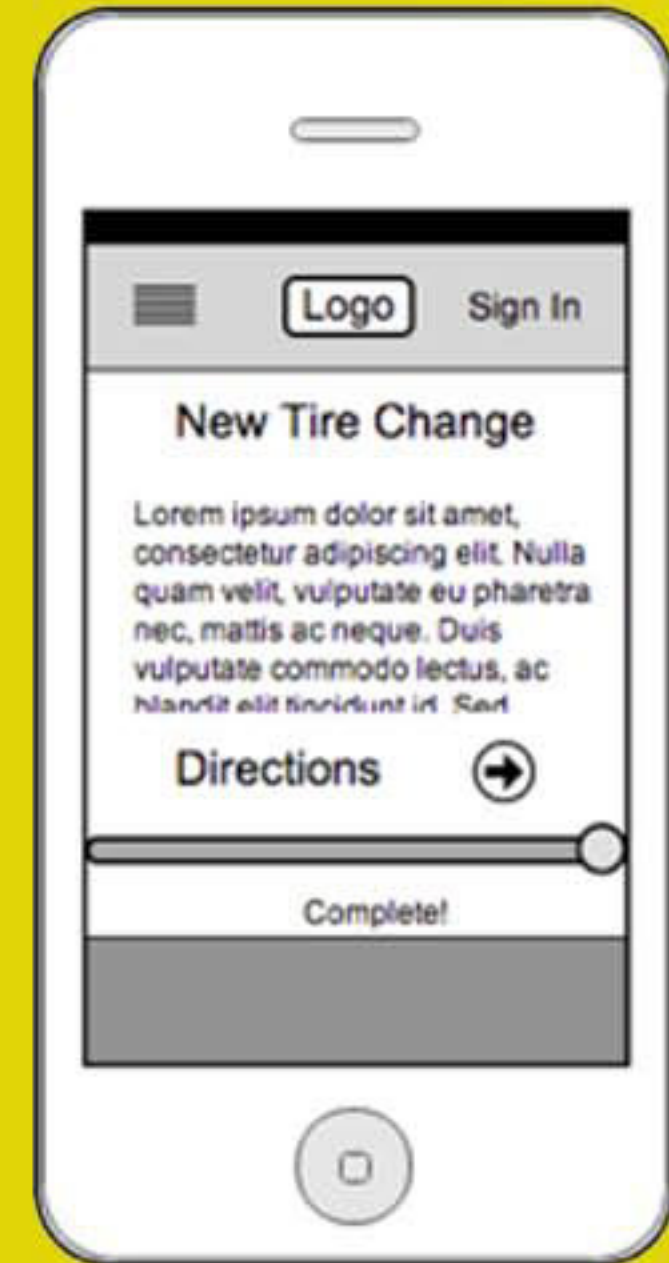
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- WIREFRAMING
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1st step



2nd step



3rd step

DIAGNOSIS PAGE WIREFRAME FOR MOBILE VERSION

02 CYCLE TO CYCLE

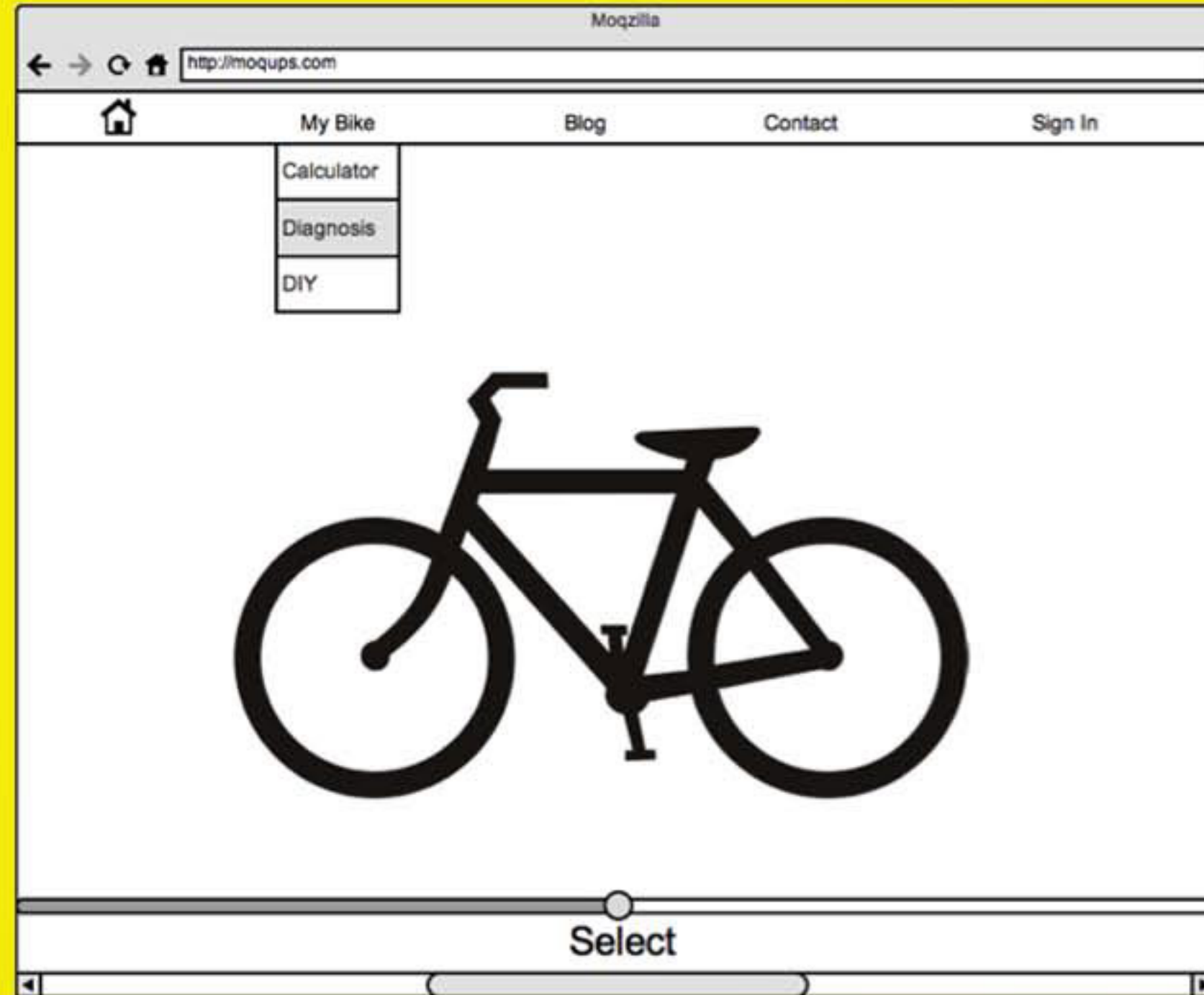
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- WIREFRAMING
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HOME PAGE WIREFRAME FOR DESKTOP VERSION

02 CYCLE TO CYCLE

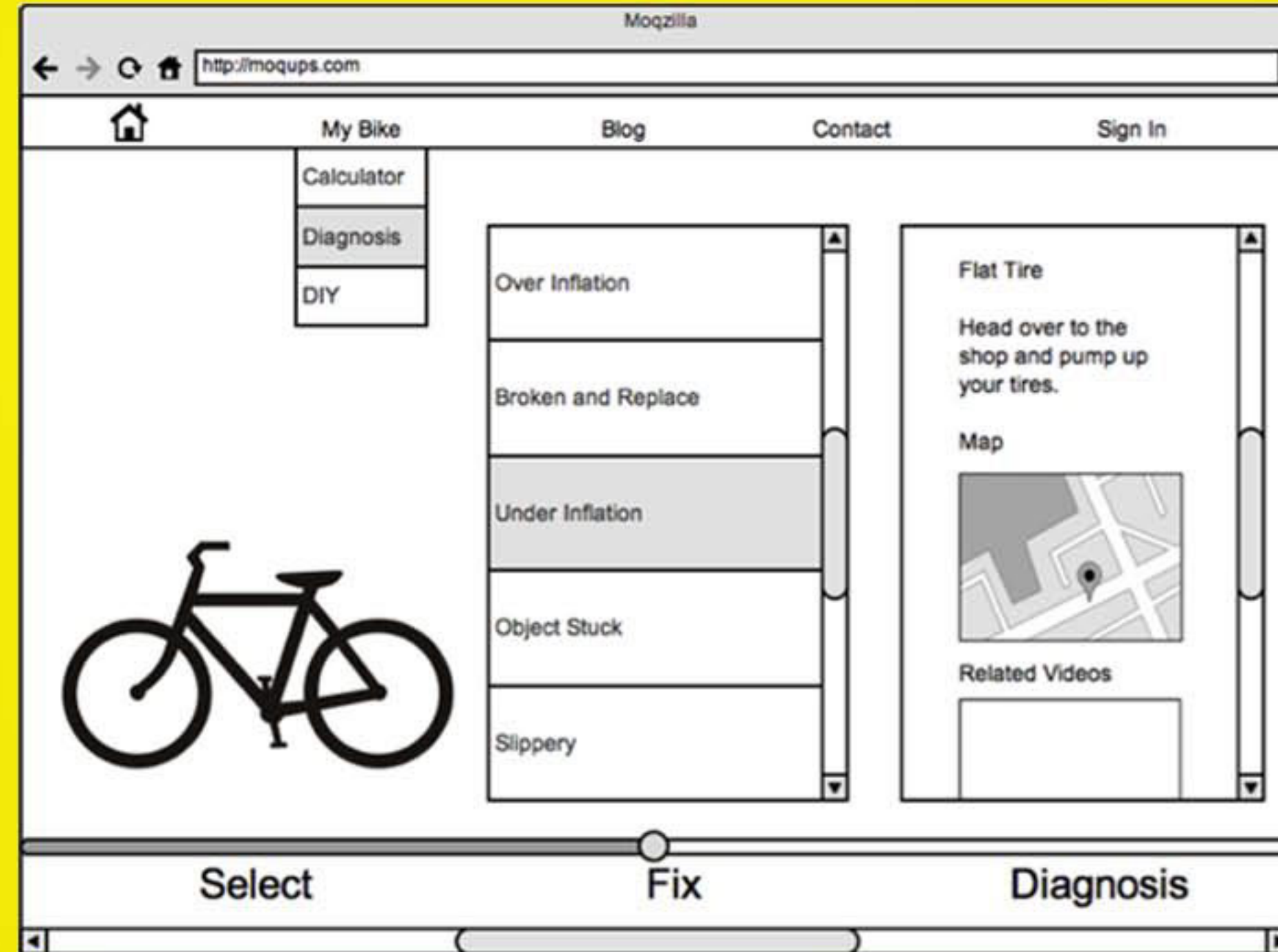
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- WIREFRAMING
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DIAGNOSIS PAGE WIREFRAME FOR DESKTOP VERSION

02 CYCLE TO CYCLE

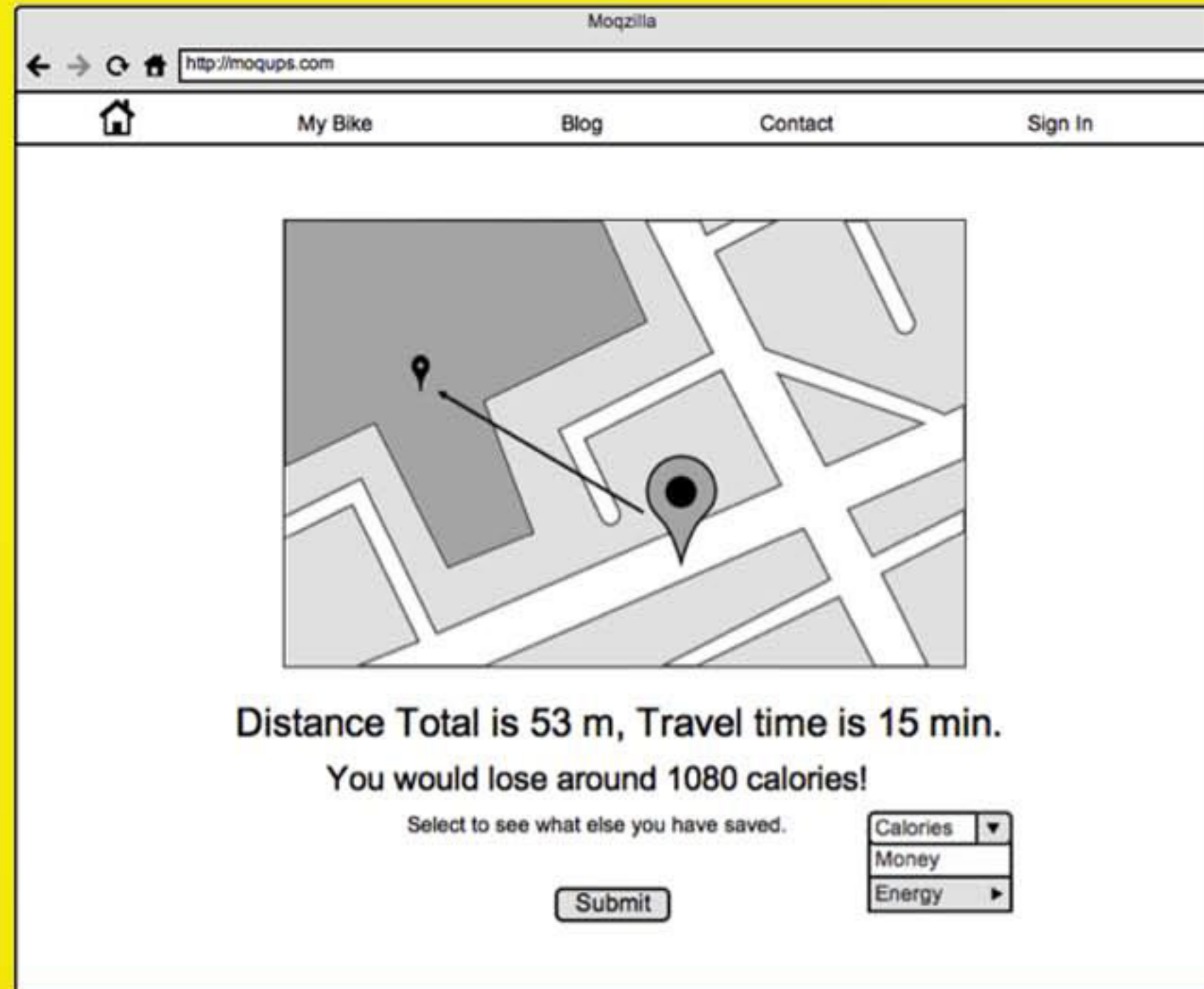
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- WIREFRAMING
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DIAGNOSIS PAGE WIREFRAME FOR DESKTOP VERSION

02 CYCLE TO CYCLE

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- WIREFRAMING
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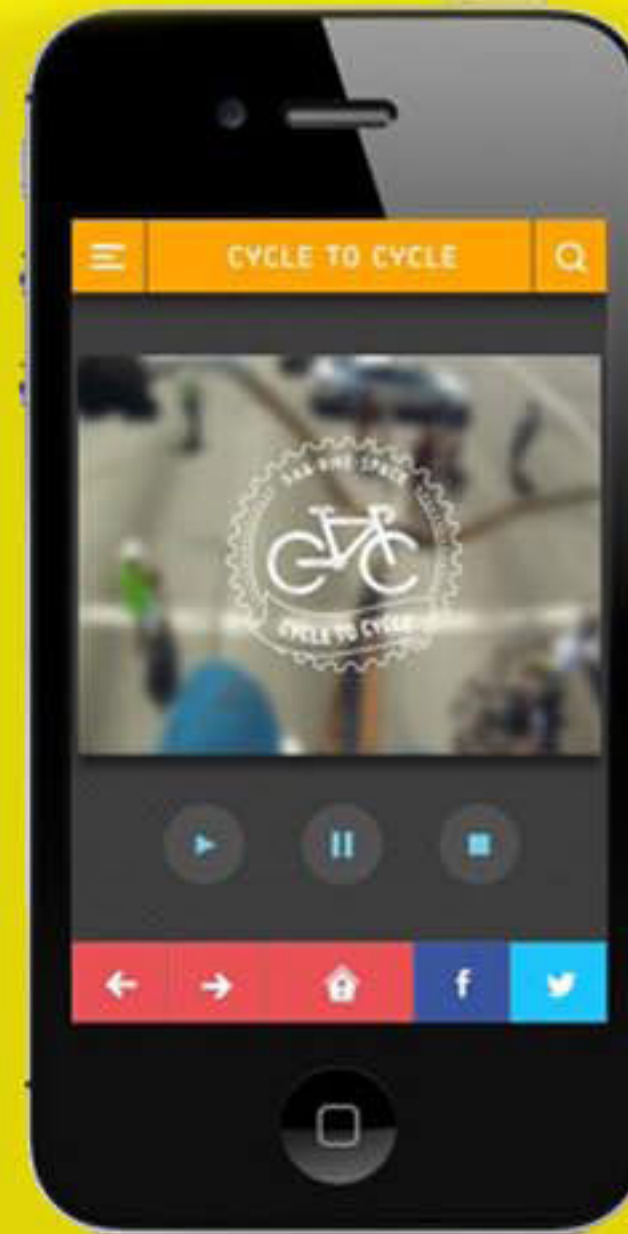
CALCULATOR PAGE WIREFRAME FOR DESKTOP VERSION

02 CYCLE TO CYCLE

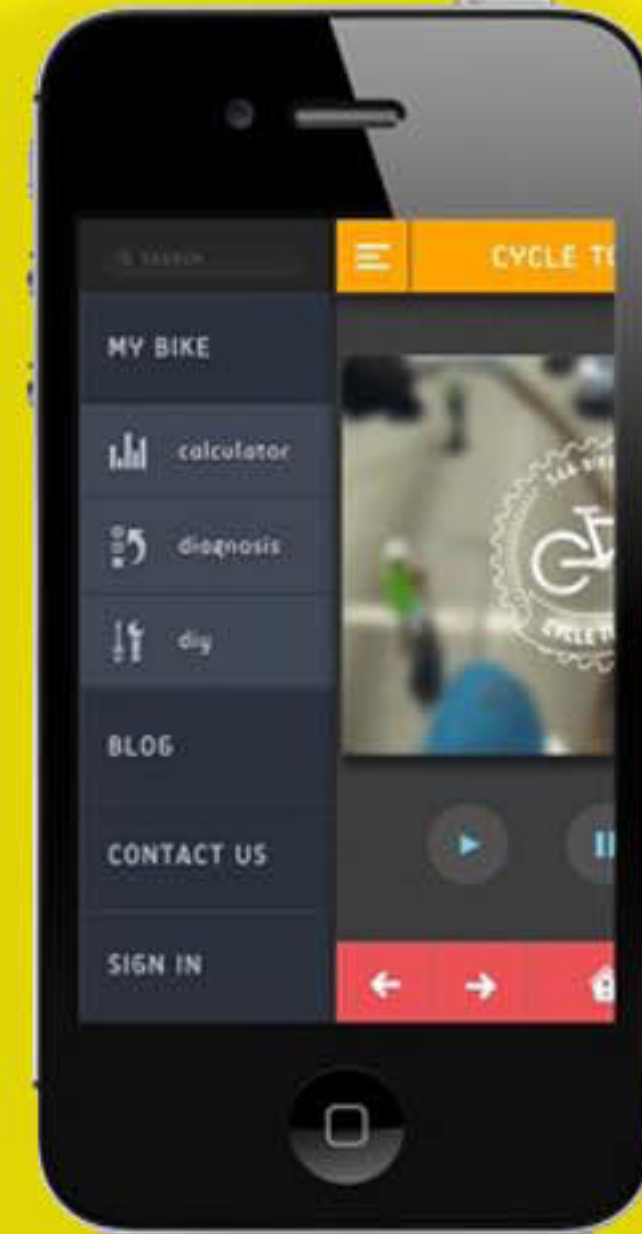
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- USER INTERFACE



Cover page



Introduction



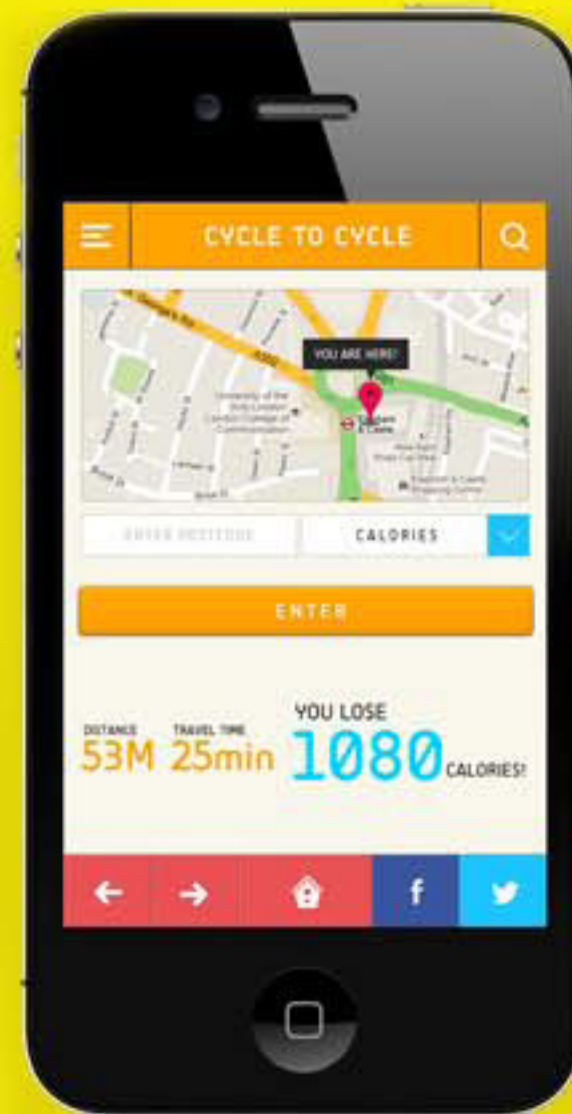
Menu

MOBILE UI FOR HOME PAGE + MENU

02 CYCLE TO CYCLE



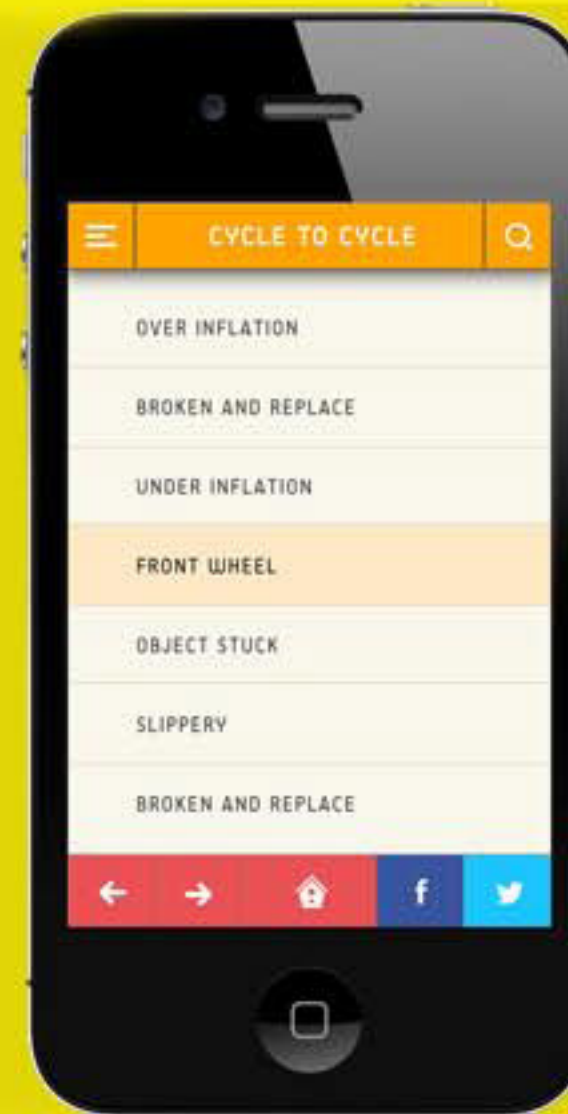
USER INTERFACE



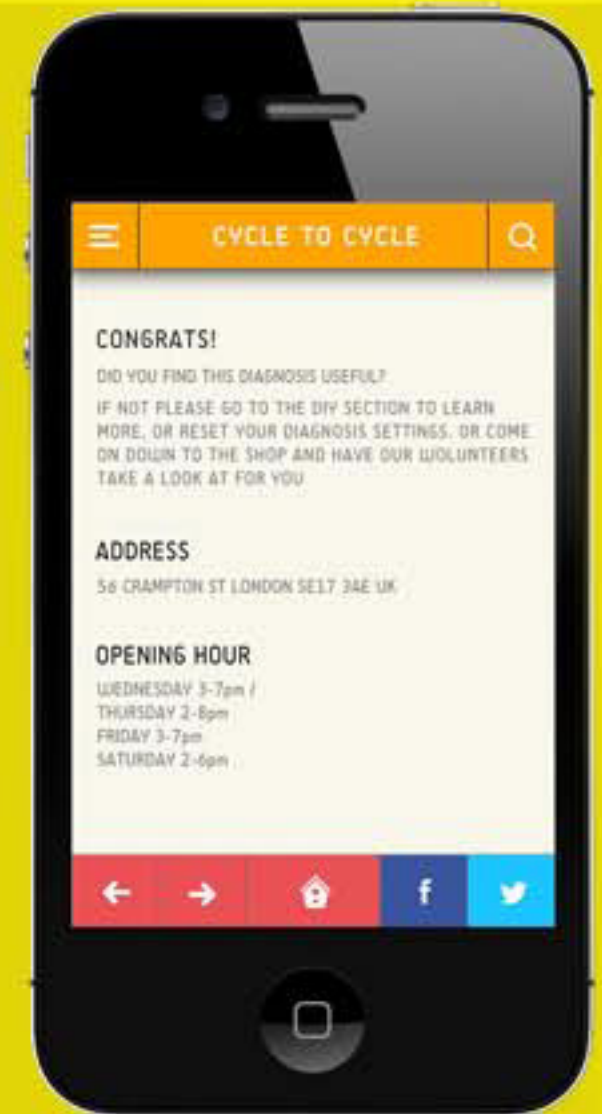
MY BIKE > Calculator



MY BIKE > Diagnosis



MY BIKE > Diagnosis 1



MY BIKE > Diagnosis 2

MOBILE UI FOR CALCULATOR PAGE + DIANOSIS PAGE

02 CYCLE TO CYCLE



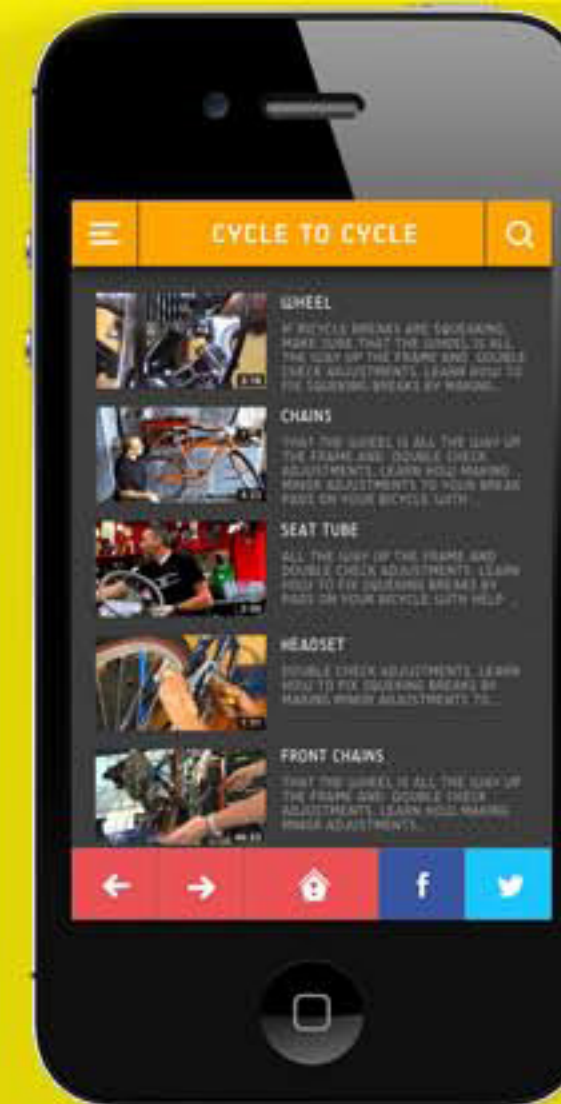
USER INTERFACE



MY BIKE > Diagnosis 3



MY BIKE > DIY



MY BIKE > DIY 1



Contact us

MOBILE UI FOR CALCULATOR PAGE + DIANOSIS PAGE

02 CYCLE TO CYCLE



 USER INTERFACE

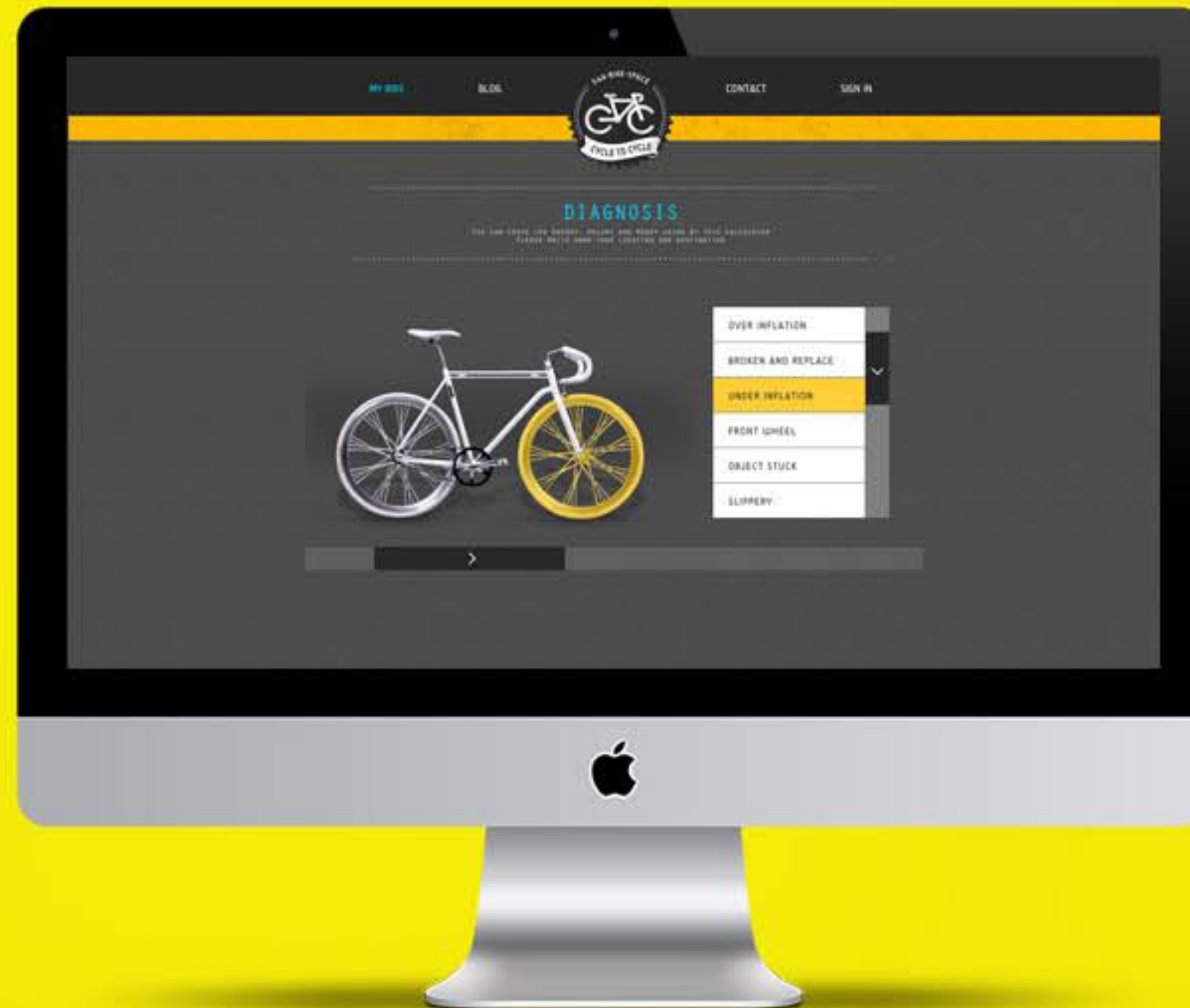


DESKTOP UI FOR HOME PAGE

02 CYCLE TO CYCLE



● USER INTERFACE



DESKTOP UI FOR DIAGNOSIS PAGE

02 CYCLE TO CYCLE



Prototype Demo:

Desktop Version: www.krishnan.co.uk/demos/cycle

Mobile Version: www.krishnan.co.uk/demos/cycle/mob



03 ACCESS:MAC OS UI

03 ACCESS:MAC OS UI



what is it?

Access is a User Interface prototype for the Mac OS X that uses a 'Magazine' as the visual metaphor, instead of the traditional desktop interface that was created in the 1980's modelling an office environment. The 'Desktop' metaphor isn't appropriate for most of the current users who don't necessarily use their Mac's for traditional office work and can't relate to concepts such as files and folders which underlie the 'Desktop' metaphor.

who is it for?

The target audience for the Access are Magazine Publishers and the version we developed was tailored for students as well.

why is it needed?

Access provides a more organized and systematic way of maintaining a user's life on a system and it is based on "semantically meaningful activities" of the users. This easy to use custom made UI for Magazine Publishers empowers them to utilize the power of the desktop with better access to their tools, news and other activities and at the same time, allows non-tech savvy users to engage more the with desktop.

03 ACCESS:MAC OS UI



Project Members:

Wanxiao Tian: Information Architect

Nadia Ahdout: Usability Analyst

Mina Liu: Interaction Designer

Krishnan Vijayaraghavan: Prototype Developer & UX Analyst

Time Period:

30 days (October 2012 to November 2012).

Tools Used:

Wireframing: Omnigraffle

Prototype: HTML5, jQuery

03 ACCESS:MAC OS UI

RESEARCH

User Research:

Most of the publishers are still wary of the digital era of publishing and instead of embracing it, they are fearful of it. With this, we analyzed if the current OS X interface was to be blamed. We noticed that there were several glaring issues with it. The desktop interface is not activity based nor is it helping publishing users in anyway, especially the novice. We spoke to the Magazine Publishing students and they found it as a really difficult system to learn, and it was not tuned for any of their activities, such as content creation, management, marketing etc.

We decided that we should develop a system than can bridge the glaring gap that they have with the digital era and learn to embrace it. By constructing an interface tuned for them, we could make them realize that the soul of publishing is still the same and all that has changed is its medium.

03 ACCESS:MAC OS UI



REQUIREMENTS



Requirements:

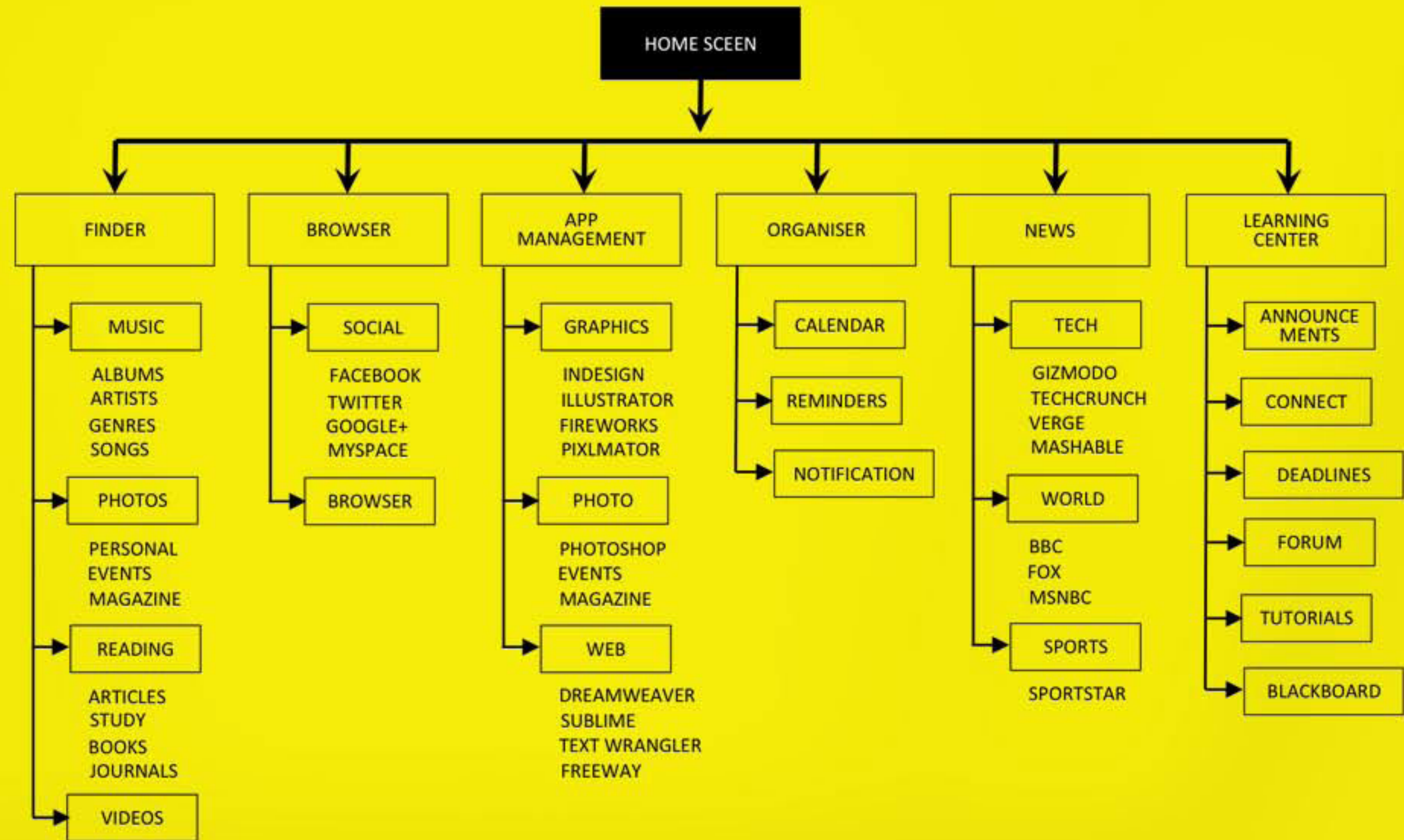
During the course of our User Research we have understood that the users were using their portable devices to do most of their tasks. Their desktop was now used for specific purposes only and were facing several issues with it:

1. **Content Management:** They described that they found it difficult to manage the large number files on their desktop. They did not want navigate deep into folders to find their files. We saw that they were placing most of their files on the desktop itself and it was time consuming to find a file.
2. **App Management:** All Apps were kept in one folder and they found it cumbersome to find their apps from this folder. They also found it very difficult to switch between apps.
3. **Social Media:** They were finding it difficult to maintain all their social networks within the browser. They were telling us that they would be having more than 20 tabs open in one window and most of them were social networking sites.

It is very evident that the current desktop is not delivering a productive environment for its users. We decided to use a “Magazine” as a metaphor, which is a more organized and systematic way of maintaining the user’s life on a system. This system will be based on semantically meaningful activities of the users and use an activity-based model for the interface.

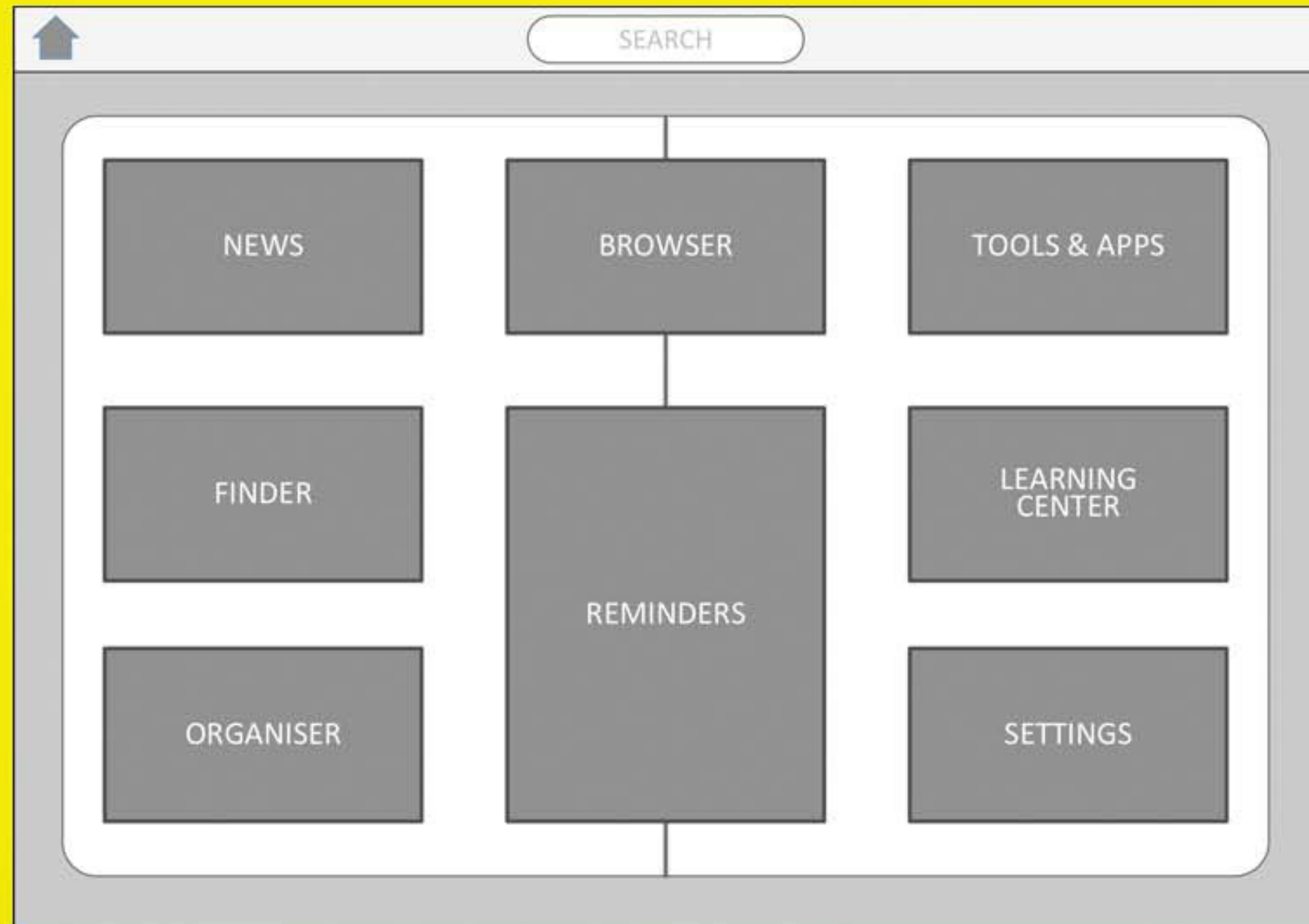
03 ACCESS:MAC OS UI

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- SITE MAP
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03 ACCESS:MAC OS UI

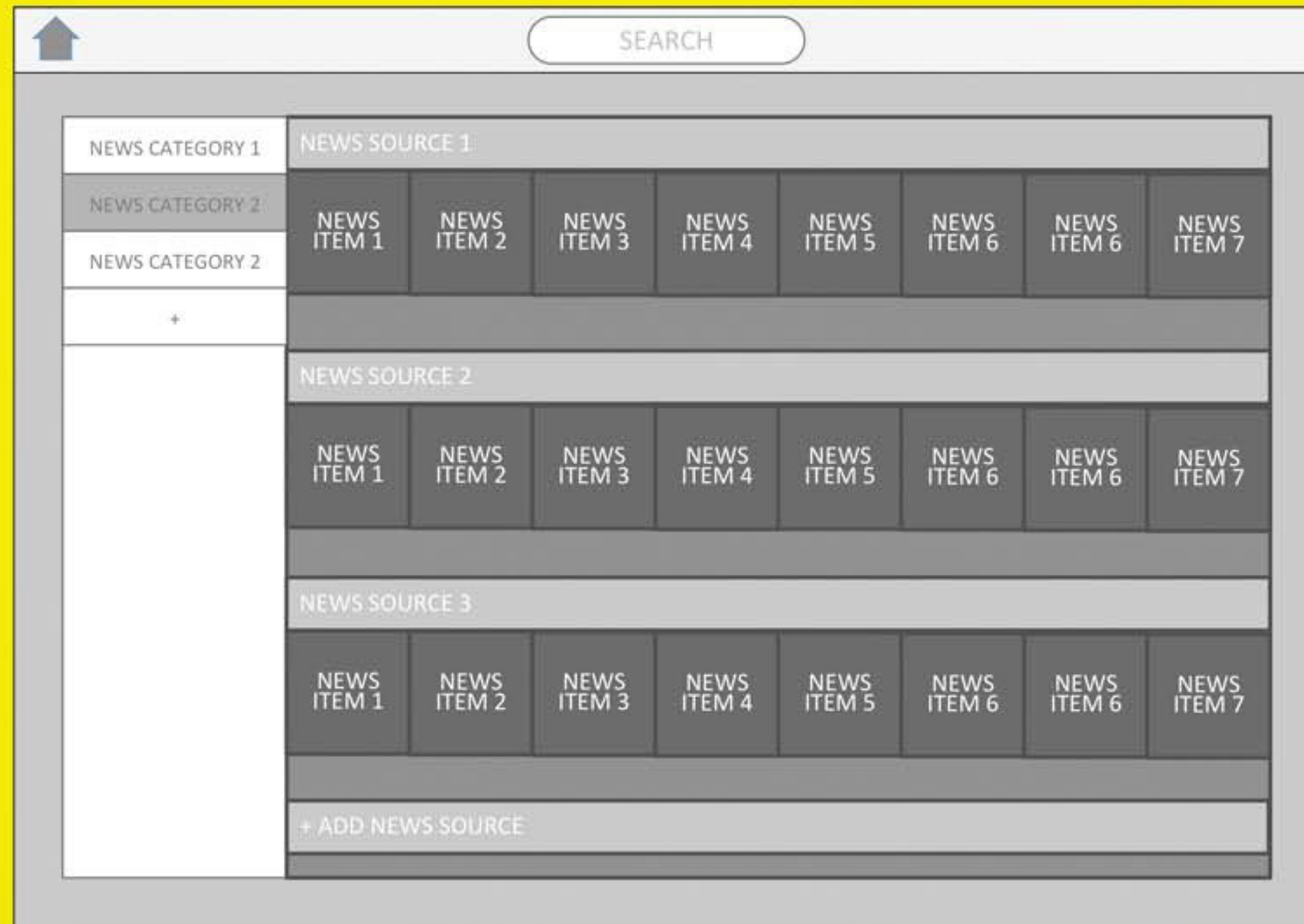
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- WIREFRAMING
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HOME SCREEN

03 ACCESS:MAC OS UI

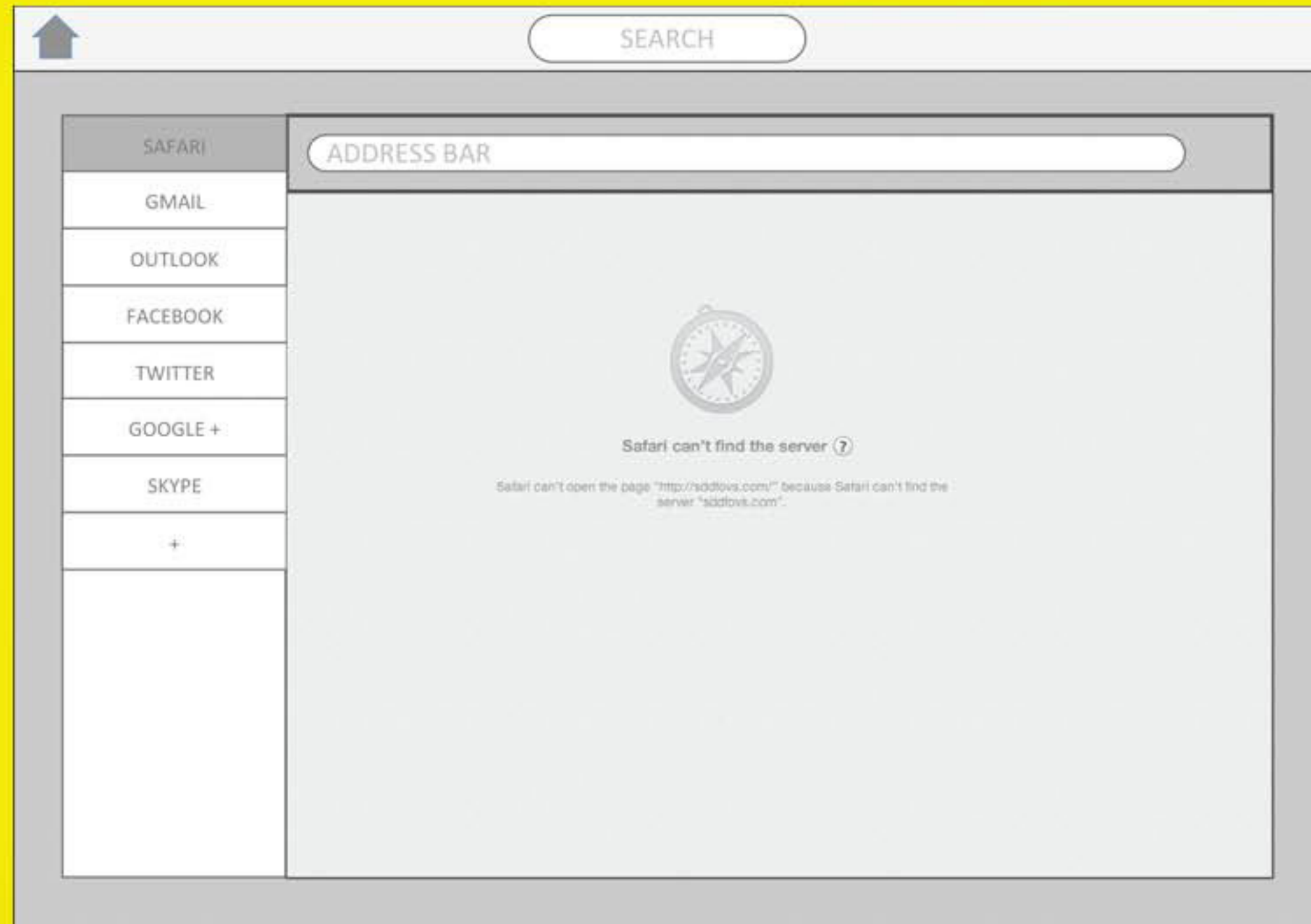
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- WIREFRAMING
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NEWS SECTION

03 ACCESS:MAC OS UI

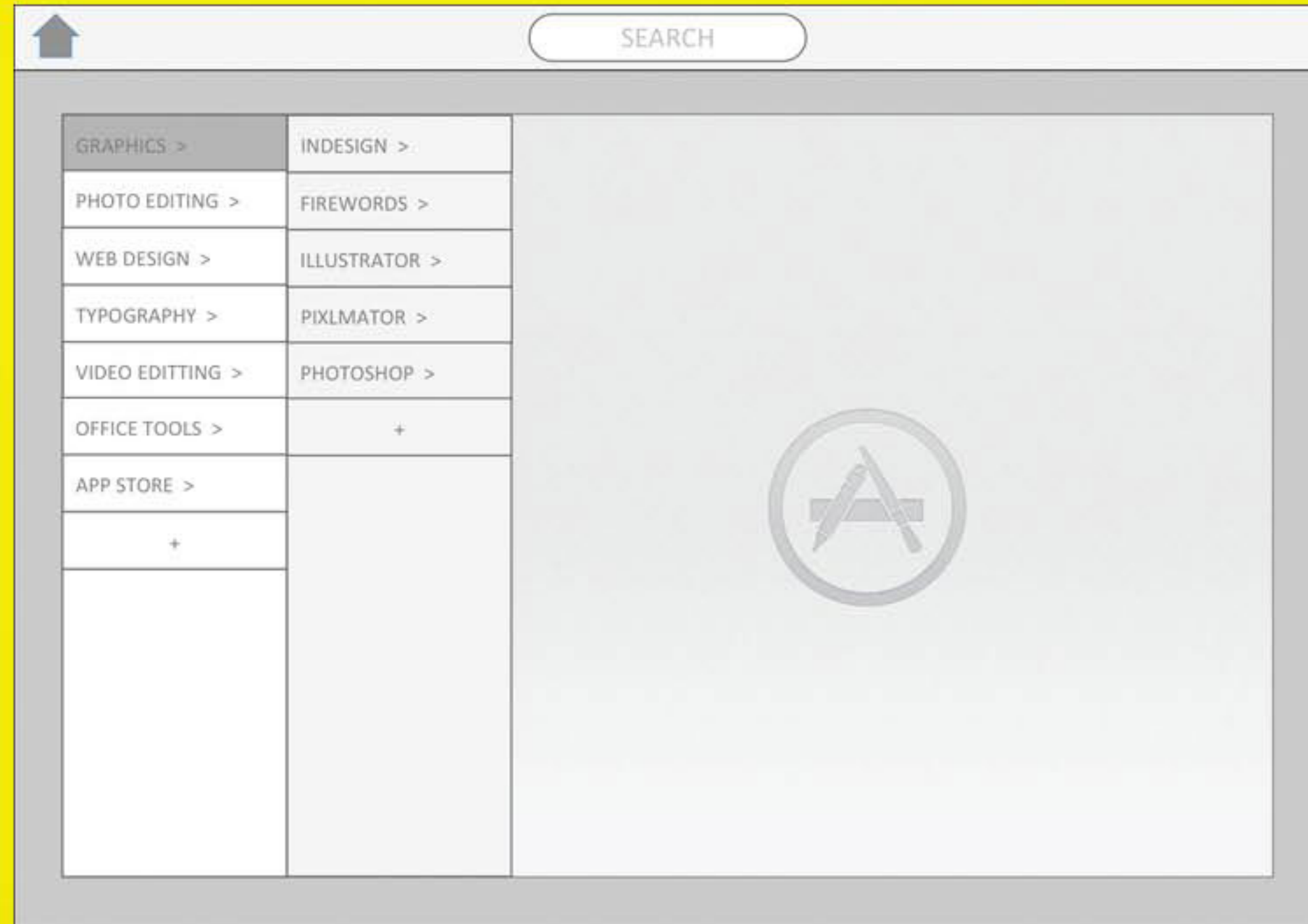
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- WIREFRAMING
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BROWSING SCREEN

03 ACCESS:MAC OS UI

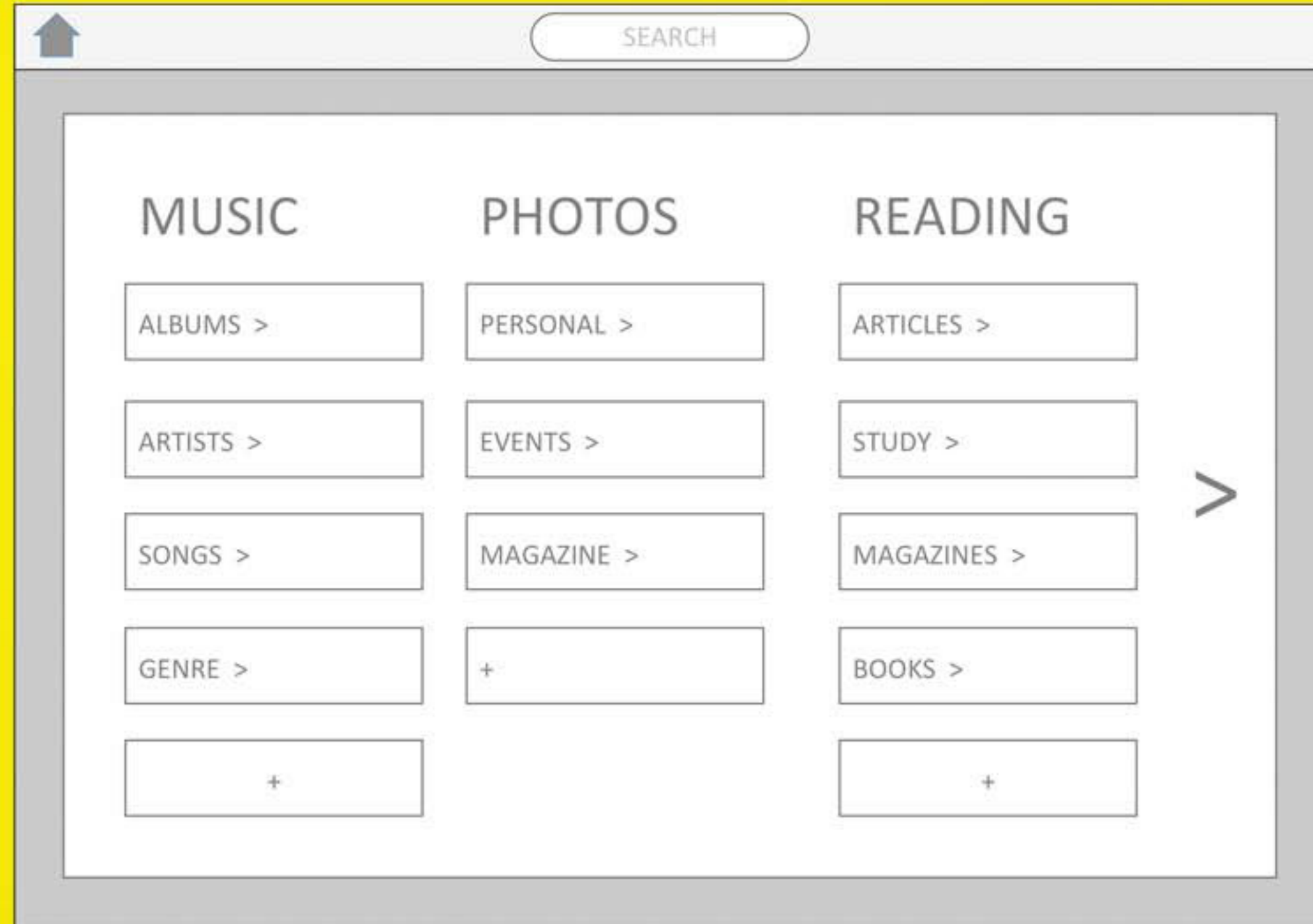
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- WIREFRAMING
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APPS & TOOLS SCREEN

03 ACCESS:MAC OS UI

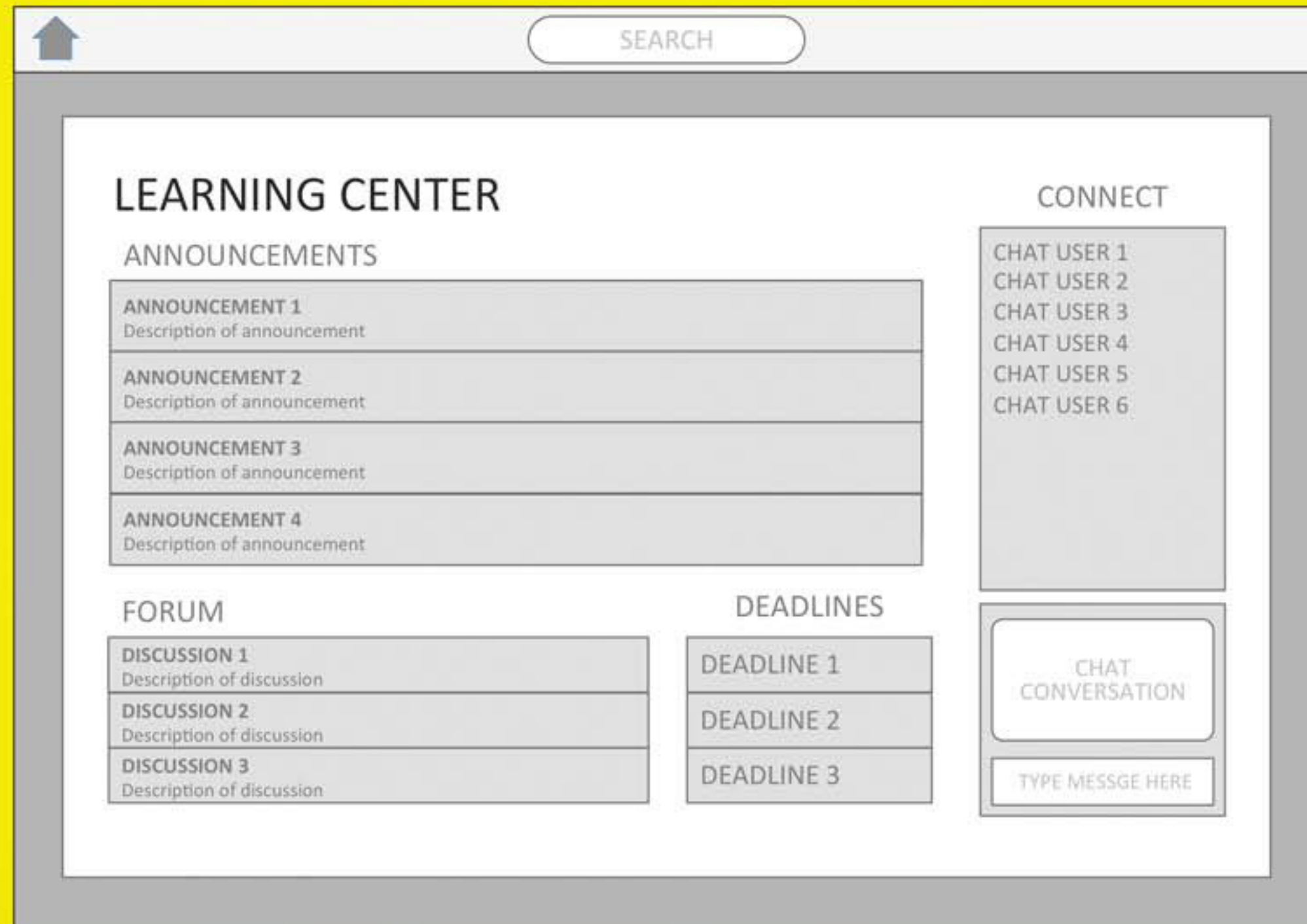
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- WIREFRAMING
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FINDER SCREEN

03 ACCESS:MAC OS UI

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- WIREFRAMING
-



LEARNING CENTER SCREEN

03 ACCESS:MAC OS UI

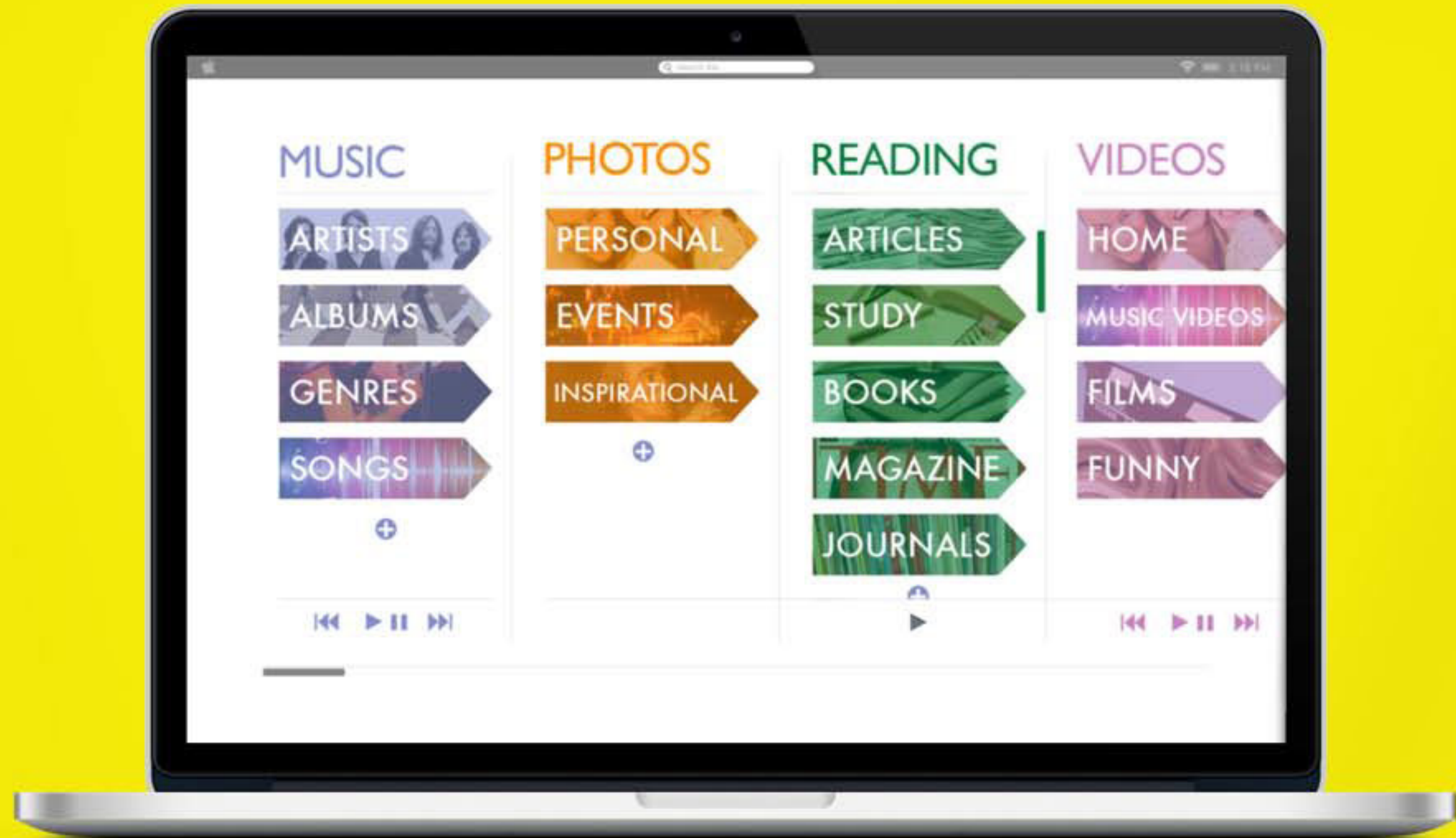
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-
- USER INTERFACE



HOME SCREEN

03 ACCESS:MAC OS UI

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- USER INTERFACE



FINDER SCREEN

03 ACCESS:MAC OS UI

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-
- USER INTERFACE

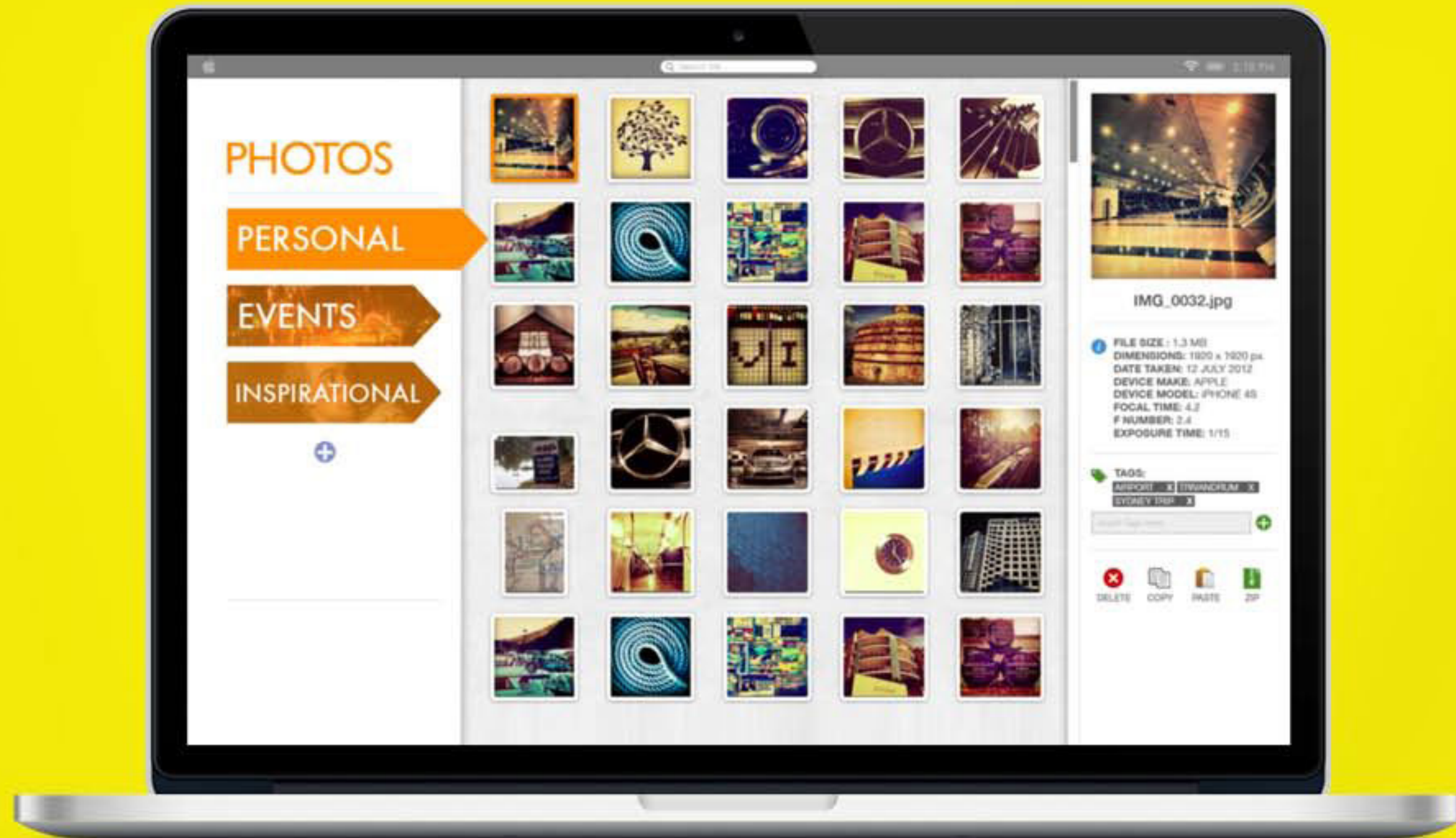
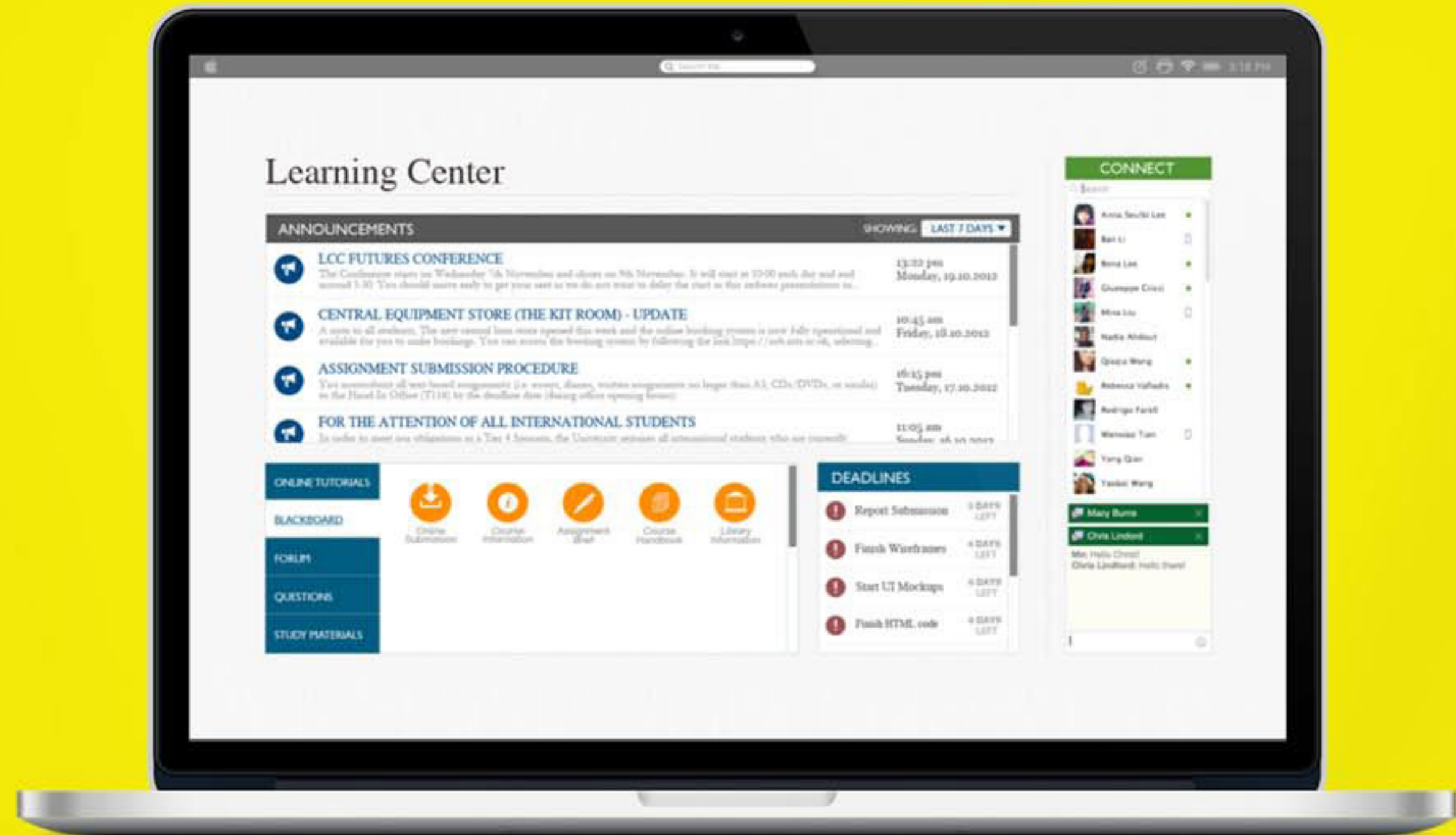


PHOTO MANAGER

03 ACCESS:MAC OS UI



© USER INTERFACE

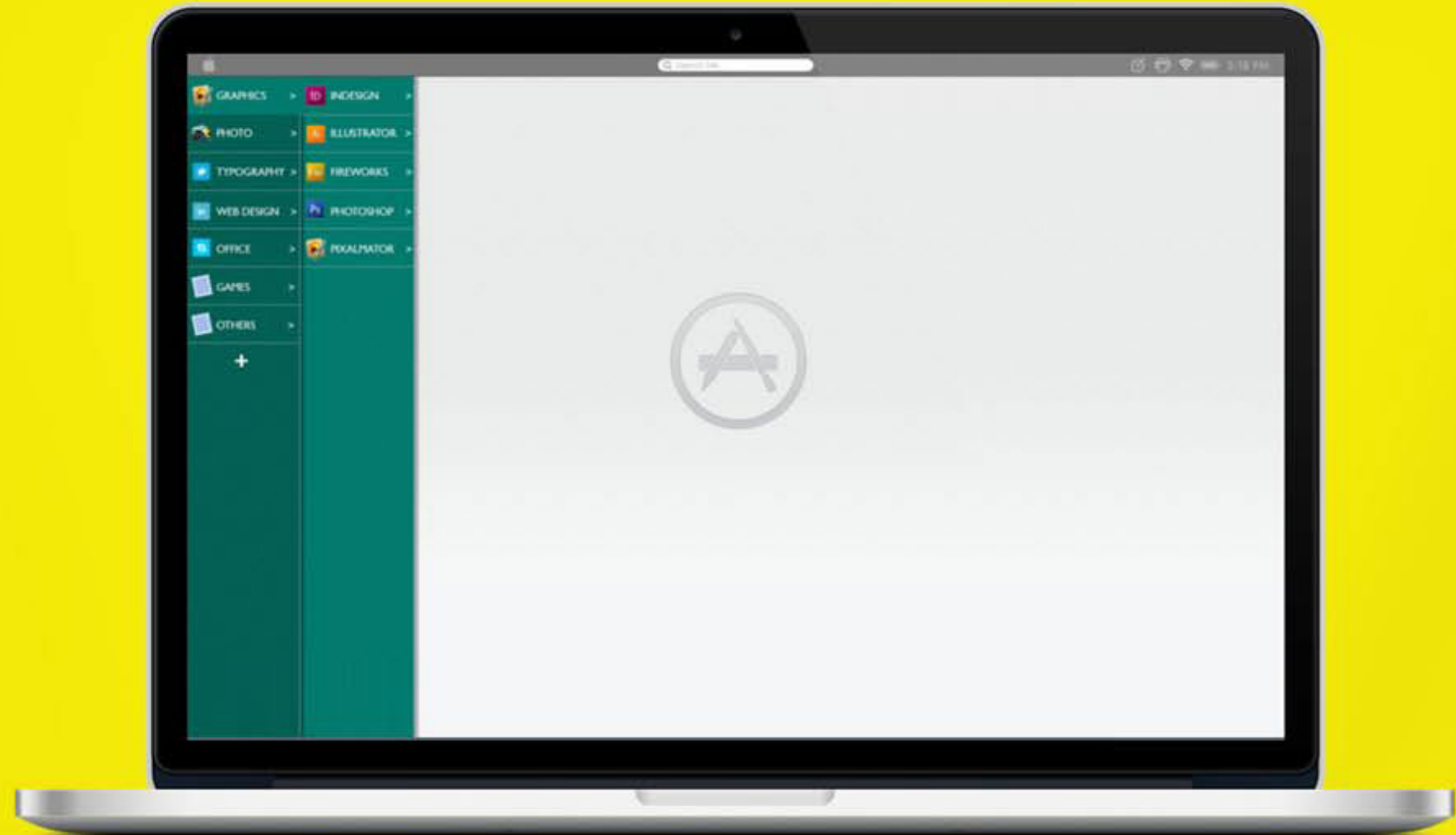


LEARNING CENTER SCREEN

03 ACCESS:MAC OS UI



● USER INTERFACE



APP MANAGEMENT SCREEN

03 ACCESS:MAC OS UI



USER INTERFACE



SOCIAL + BROWSING SCREEN

03 ACCESS:MAC OS UI



Prototype Demo:

Desktop Version: www.krishnan.co.uk/demos/access/

Usability Testing:

We conducted usability testing on four of the course students and one Tutor. The test started with an introduction to the user, telling them what the test was meant for. They were also informed that the whole session was going to be recorded. They were then shown the landing page and asked a few questions about it. After that they were asked to perform the tasks by giving them a handout with all questions, and briefly explaining the tasks. As they were performing the tasks, we observed how they were using the system to accomplish each task.

The analysis report of this test can be downloaded from the following link: www.krishnan.co.uk/demos/docs/access.docx

FIN



THANK YOU

WWW.KRISHNAN.CO.UK