POLYGA 3D SCANNERS
S1 PRO/ PRO WIDE

distance:

- CARBON X — 1200mm
- L6 — 680mm
- S1 PRO WIDE — 400mm
- H3 — 380mm
- S1 PRO — 200mm
- C506 — 87mm

USER EXPERIENCE
RESEARCH

VERSION 1.001 BY ACE LE DESIGN © 2023

CONTENTS
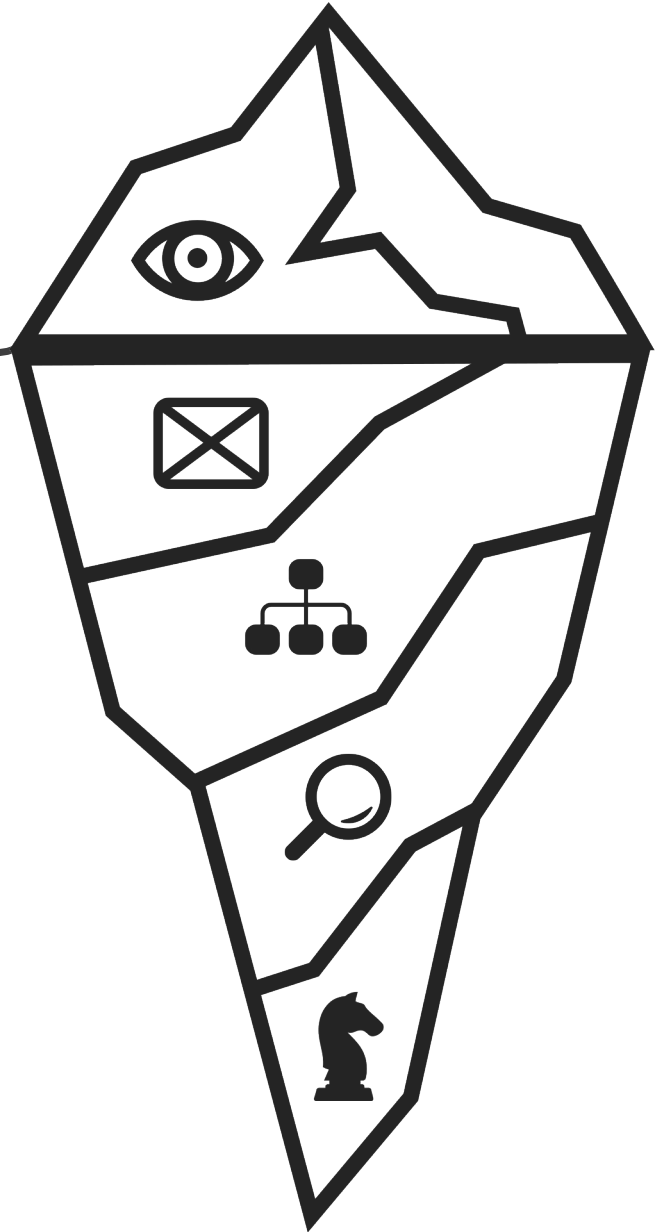
U I / U X   I C E B E R G

SECTION I
STRATEGY

USER PERSONAS | USER JOURNEY MAPS

GOALS & EXPECTATIONS

1

IDEAL CUSTOMER — MARK LEE
User Persona/User Journey
Goals & Expectations

Support Engineer
34

2

BEST FIT CUSTOMER — BEN KIM
User Persona/User Journey
Goals & Expectations

Lead Engineer
42

3

PERSONA 3 — RICHARD M.
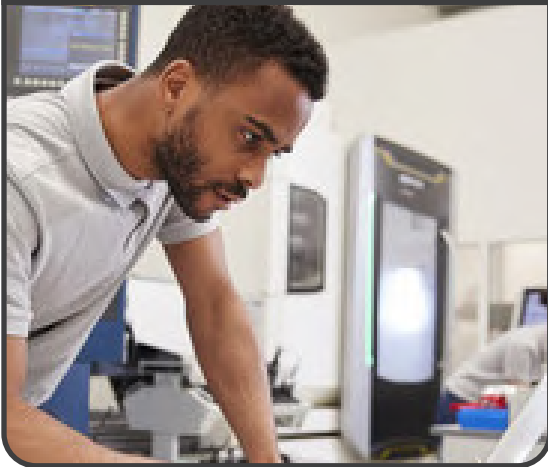User Persona/User Journey
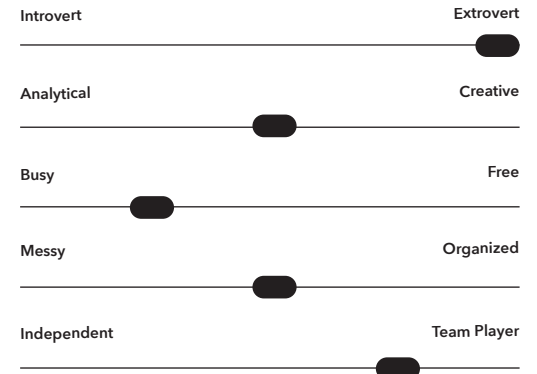Goals & Expectations

Procurement Manager
46

MARK LEE | IDEAL CUSTOMER

PERSONA 1

MECHATRONICS ENGINEER

"I think additive manufacturing will kickstart industry 4.0." - Mark Lee

FAVORITE BRANDS

Apple | YouTube | SAMSUNG | Mercedes-Benz

PERSONALITY

Introvert		Extrovert
Analytical		Creative
Busy		Free
Messy		Organized
Independent		Team Player

DEMOGRAPHICS

- 34 Years Old
- $60 - 70K
- Chicago IL, United States
- Support Engineer
- Married With 1 Child
- Bachelors of Mechatronics
- Archetype: The Outlaw/Influencer

BIOGRAPHY

Mark is a proud support engineer of 2 years working at his dream job at a research & development lab. He spends his free time playing with his Apple AR headset, PS5 or working on his Youtube channel. His work days mostly involve troubleshooting technical issues with stakeholders; and supports research and development work.

MOTIVATIONS

Impress Colleagues
Further Career
Make Work Easier
Professonal Credibility
Convenience
Social Media Attention

GOALS

- Mark needs approval for a 3D scanner so he can improve his workflow and impress his colleagues.
- He needs information about the top 3D Scanners.

CHANNELS

Iphone 15 Pro	78%
Macbook Pro	Sonoma	22%

45% 35% 19% 11%

ACTIVITIES
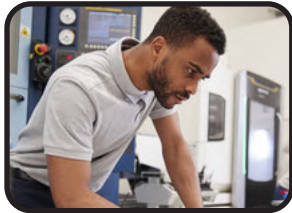
AR/VR
Youtube
Auto Repair
Video Games
Self Care
Videography

FRUSTRATIONS

- Dislikes low Qualty or badly designed products.
- Dislikes lack of resources or material.
- Dislikes targeted ads.

USER JOURNEY 1 — MARK LEE

USER SCENARIO

Mark is a proud mechatronics engineer of 2 years working at his dream job at Samsung in the research & development department.

GOALS & EXPECTATIONS

Mark is a engineer who juggles many duties. His goal is to get a new 3D scanner to streamline his R&D worksflow. He wants something that is slick, reliable and easy-to-use while not costing a fortune. He's looking for quaklity and reiability.
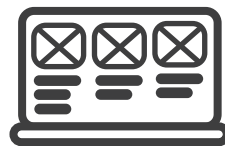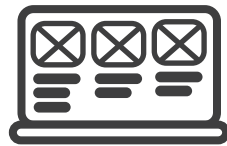
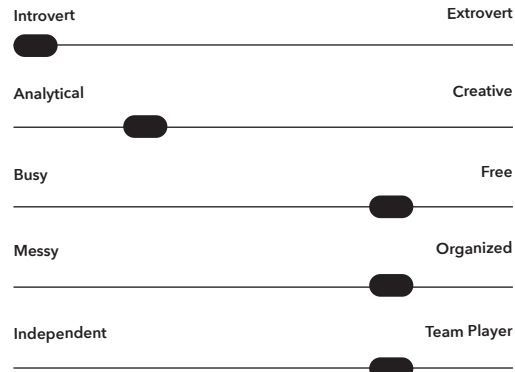|	BEFORE WORK	MORNING WORKDAY		AFTERNOON WORKDAY		AFTER
DOING	Mark speaks to the department manager about the need for a new 3D Scanner	Mark searchs 3D scanners and brands on his laptop.	Mark chooses a 3D Scanner he likes and puts together a purchase order for his boss.	Mark sees a Call-to-Action button and calls the 3D scanner sales department.	Mark gets approval from his department manager about the 3D scanner purchase.	Mark is so excited about his new 3D scanner and posts on his social + channel.
THINKING	• Remember to ask about the budget. • Remember to specify the need for a scanner. • I hope I get approval for this purchase.	• The top 3D Scanners should be on the front page and the rest are probably not as good. • Remember to read about warranties. • Avoid chinese made products if possible.	• I like this Scanner it's expensive but is made in Canada and has great documentation. • The warranty and support looks great. • I trust what I see on the top 10 lists.	• I should verify what these specs mean. • If the website isn't nice it's probably not a reliable company. • I like the build quality of products built in America or Europe.	• Remember to confirms costs and warranties with manager.	• I amd happy with the perfomance of the product. • I should use this opportunity to post on my youtube channel.
FEELING	• Feeling anxious about about costs. • Nervous about talking to manager. • Worried about recent layoffs and tech crash..	• Annoyed at the amount of targted ads.. • Reassured after she texts her partner. • A little bored flipping through her phone.	• Feeling anxious about high costs. • Dislikes asking for things. • Feels unsure about specifications as this is his first 3D scanner.	• Feeling good about about doing research. • Less nervous and more informed. • Assurance of product quality due to talking with the sale.	• Feeling informed and assured with purchase. • Excited about recieving new tool and improving workflow.	• Feels relieved and accomplished she has completed the service. • Relieved as he is happy with the product.. • Feels very little buyers remorse.

BEN KIM | BEST-FIT CUSTOMER

PERSONA 2
LEAD ENGINEER

"Have you seen my new mechanical keyboard?". - Ben Kim.

FAVORITE BRANDS

Apple | BMW | THE NORTH FACE | Canon

PERSONALITY

Introvert		Extrovert
Analytical		Creative
Busy		Free
Messy		Organized
Independent		Team Player

DEMOGRAPHICS

- 42 Years Old
- $80 - 90K
- San Diego CA, United States
- Lead Engineer
- Married With 2 Children
- Masters in Mechatronics
- Archetype: The Hero/Family Man

BIOGRAPHY

Ben is a lead reverse engineer of 12 years working at his small oem electronics consulting company where he does the majority of the work. He spends his free taking long hikes and exploring with his family and his 2 dogs. His work day mostly involve reverse engineering products for clients in or around the Silicon Valley area.

MOTIVATIONS

Make Work Easier and Faster
Wants confidence in toolset
Convenience and Value
Enjoys Research

GOALS

- Ben needs a 3D scanner so he can improve his workflow and reduce time taking measurments.
- He needs information about the top 3D Scanners.

CHANNELS

Iphone 14 Pro Max	60%
Dell X1	Windows 11	40%

51% 40% 19%

ACTIVITIES

Hiking/Outdoors
Film/Television
Video Computet Games
Basketball
Cooking
Photography

FRUSTRATIONS

- Dislikes low Qualty or badly designed products.
- Dislikes targeted ads.

USER JOURNEY 2 — BEN KIM

USER SCENARIO
Ben is busy and juggles many duties. Reviewing his email he reminded that he has a backlog or projects becuase he spends too long taking measurements as his eyes are getting worse.
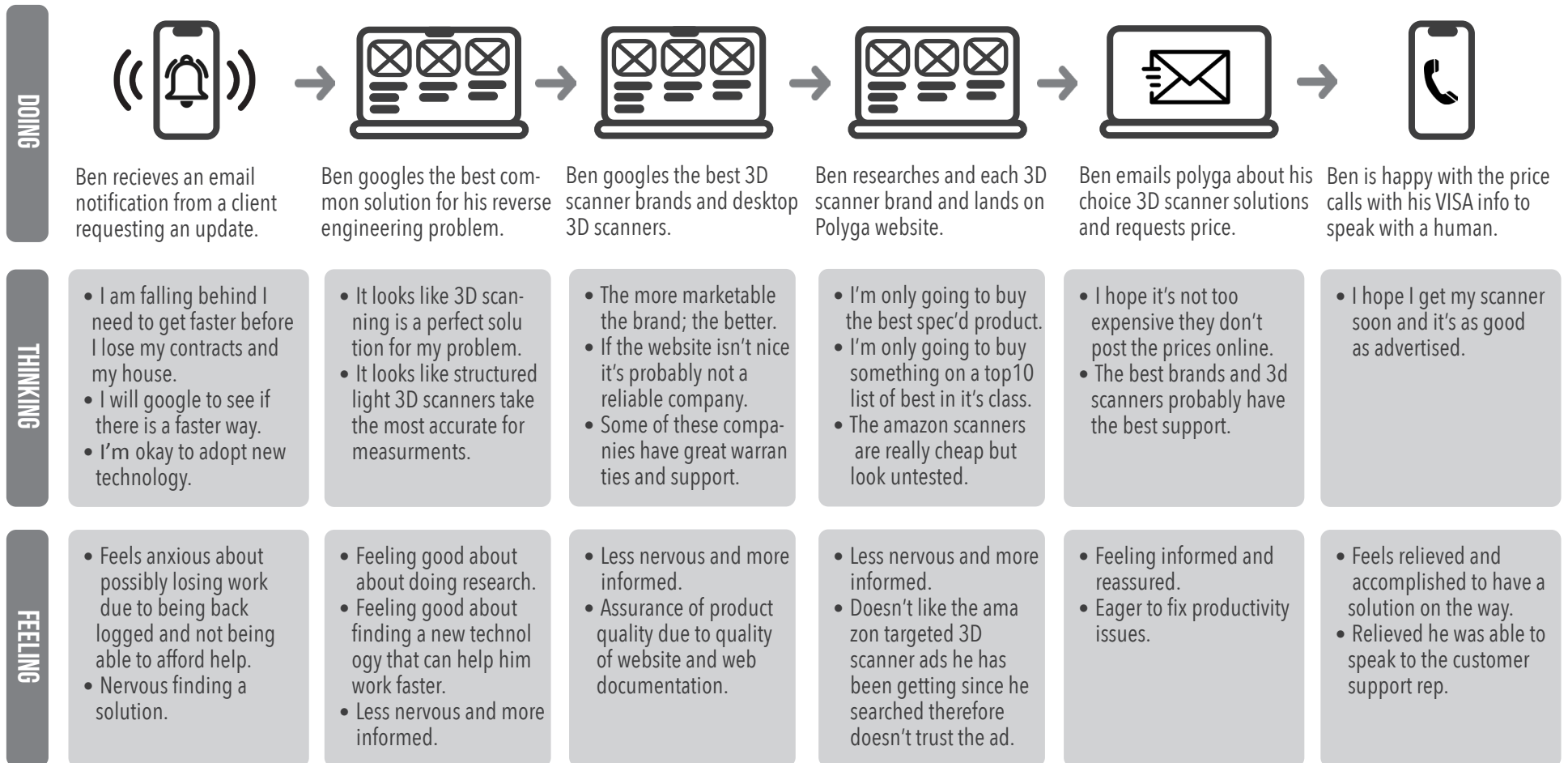
GOALS & EXPECTATIONS
Ben's goal is to find a solution for his backlog of projects in the most convenient way possible to get back to work. He expects that a proffesional level measurment device can be relatively expensive.
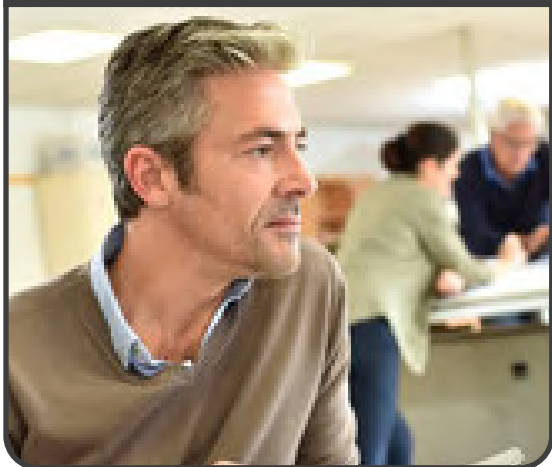
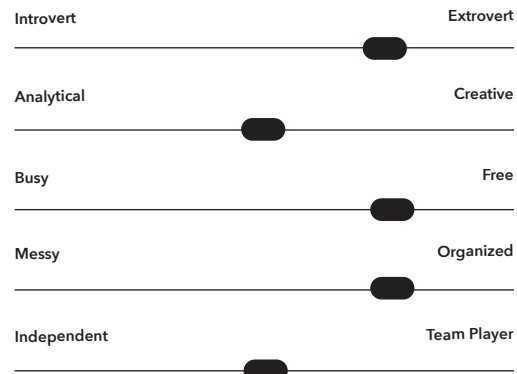|	BEFORE WORK	MORNING WORKDAY		AFTERNOON WORKDAY		AFTER
DOING	Ben recieves an email notification from a client requesting an update.	Ben googles the best common solution for his reverse engineering problem.	Ben googles the best 3D scanner brands and desktop 3D scanners.	Ben researches and each 3D scanner brand and lands on Polyga website.	Ben emails polyga about his choice 3D scanner solutions and requests price.	Ben is happy with the price calls with his VISA info to speak with a human.
THINKING	• I am falling behind I need to get faster before I lose my contracts and my house. • I will google to see if there is a faster way. • I'm okay to adopt new technology.	• It looks like 3D scanning is a perfect solution for my problem. • It looks like structured light 3D scanners take the most accurate for measurments.	• The more marketable the brand; the better. • If the website isn't nice it's probably not a reliable company. • Some of these companies have great warranties and support.	• I'm only going to buy the best spec'd product. • I'm only going to buy something on a top10 list of best in it's class. • The amazon scanners are really cheap but look untested.	• I hope it's not too expensive they don't post the prices online. • The best brands and 3d scanners probably have the best support.	• I hope I get my scanner soon and it's as good as advertised.
FEELING	• Feels anxious about possibly losing work due to being back logged and not being able to afford help. • Nervous finding a solution.	• Feeling good about about doing research. • Feeling good about finding a new technology that can help him work faster. • Less nervous and more informed.	• Less nervous and more informed. • Assurance of product quality due to quality of website and web documentation.	• Less nervous and more informed. • Doesn't like the amazon targeted 3D scanner ads he has been getting since he searched therefore doesn't trust the ad.	• Feeling informed and reassured. • Eager to fix productivity issues.	• Feels relieved and accomplished to have a solution on the way. • Relieved he was able to speak to the customer support rep.

RICHARD M. | PERSONA 3

PERSONA 3
PROCUREMENT MANAGER

"One never finds the time, they must make it."
"If he dies he dies." - Char

FAVORITE BRANDS
 Apple amazon PRADA Canon Ferrari

PERSONALITY

Introvert	Extrovert
Analytical	Creative
Busy	Free
Messy	Organized
Independent	Team Player

DEMOGRAPHICS

- 48 Years Old
- $200K - 250K
- New York NY, United States
- Procurement Manager
- Married With 2 Children
- Masters of Business Administration
- Archetype: The Sage

BIOGRAPHY

In 2007 Richard took over as Procurement Manager at multinational corporation that owns many businesses. He likes to spend his weekends sailing with his family. He is often seen on his phone browsing Amazon for the latest tech gifts for his many family members. He is a stakeholder in multiple ventures and his favourite book is Dharma Bums.

MOTIVATIONS

Sales & Leads
Board Members
Staff Turnover
Make Work Easier and Faster

GOALS

- Keep his ventures profitable
- Keep his venturs running smoothly
- Reduce staff turnaround
- Decrease work-load
- Early retirement

CHANNELS

IPhone 15 Pro Max	80%
Macbook Pro	Ventura	20%

📞 88% 🟢 8% f 2% 📷 2%

ACTIVITIES

Climbing/Hiking
Sailing/Boating/Fishing
Fine Wines/Spirit
Photography/Film
Magazines/Books

FRUSTRATIONS

- Ventures that lose money due to neglect.
- Low quality suppliers.

USER JOURNEY 3   # RICHARD M.

USER SCENARIO
Richard receives an email notification on his phone from Mark Lee and is an email request purchase order for a 3D scanner for one of his businesses.

GOALS & EXPECTATIONS
Richard's goal is to get to review and appprove the purchase as fast as possible. He is ready and willing and happy to approve most requests under 10k without much resistance as long as the request seems above board.
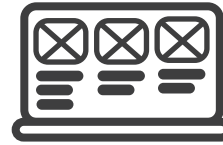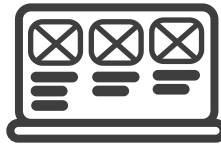
	BEFORE WORK	MORNING WORKDAY		AFTERNOON WORKDAY		AFTER
DOING	Richard recieves an email purchase request from his Engineer Mark Lee.	Richard calls to find a out why he needs a 3D scanner.	Richard diligently looks through the web links provided and googles the	Rciahrd compares best percieved-value brands.	Richard approves the purchase request and sends his approval via an email.	Richard calls Mark just to confirm his approval and a few details.
THINKING	• I wonder if issue can be resolved by end of day. • I wonder why he wants 3D scanner for.	• I just need a para graph to put in my expense book. • Mark is an early adopter and hard worker I should make sure he has the tools he needs.	• I should diligently do vet these brands. • I'll list percieved quality based on documenta- tion and website.	• If the documentation is bad the product is probably also. • If the website isn't nice it's probably not a reliable company. • The more marketable the brand; the better.	• Eager to go home. • Eager to finish paper work.	• Research and diligence was done. • Show Mark support for his venture.
FEELING	• Eager to deal with this purchase request.	• Confident Mark will put the scanner to good use. • Eager to finish the expense report and go home.	• Feeling good about vetting new brands with a systematic logical approach. • Feeling good about supporting one of his ventures.	• Well nformed. • Assurance of product quality due to quality of website and web documentation.	• Feels good to support staff. • Feels good to support North American Business.	• Feels relieved hewas able to approve the purchase by the end of the day. • Relieved he was able to help his team on short notice.

SCOPE

USER SCENARIO | USER STORY

COMPETITIVE ANALYSIS

1

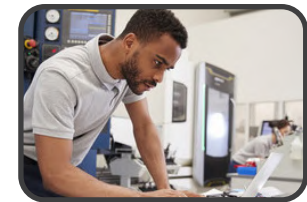### PERSONA 1   MARK LEE
User Scenario 1/   Engineer
User Story 1   34

2

PERSONA 2   BEN KIM
User Scenario 2/   Lead Engineer
User Story 2   42

3

PERSONA 3   RICHARD M.
User Scenario 3/   Procurement Manager
User Story 3   48

4

COMPETITIVE ANALYSIS

Competitors 1 - 4
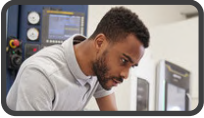
PURCHASE APPROVAL WITH MARK LEE

IDEAL CUSTOMER

MARK LEE


R & D CO HEAD OFFICE
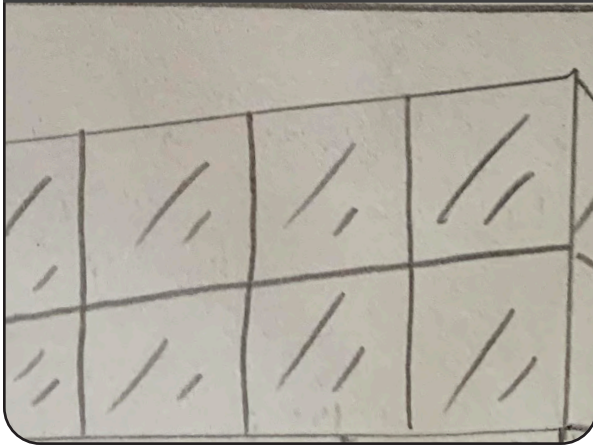
- Mark begins his work week at his R & D job at the research lab.
- Mark is looking to improve it workflow and eventually get noticed and a promotion.

MARK'S DESK AT R & D CO

- Mark searches the best solutions for his engineering problem and reads the top articles on google.
- Mark researches the technologies recomended by google and reads the articles.

MARK'S LAPTOP/ TOP OF FUNNEL

HOMEPAGE ☒
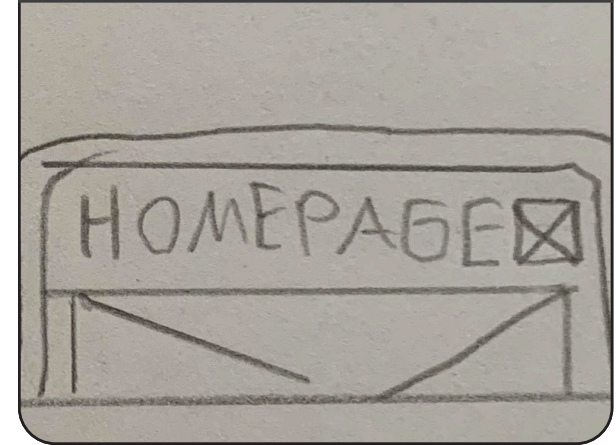
- Mark is interested in 3D scanning as a solution.
- Mark a little overwelmed with the choices researches the top 3D scanner results and records notes on each of top brands including Polyga.

MARK'S LAPTOP MIDDLE OF FUNNEL

WARRANTY

- Mark revisits each 3d scanner webpage and notes the most highest performance and best warranty.
- Mark uses the chatbots to ask research specs and ask a few questions about the products.

MARK'S LAPTOP

Wow Looks Like Apple!

HOMEPAGE ☒
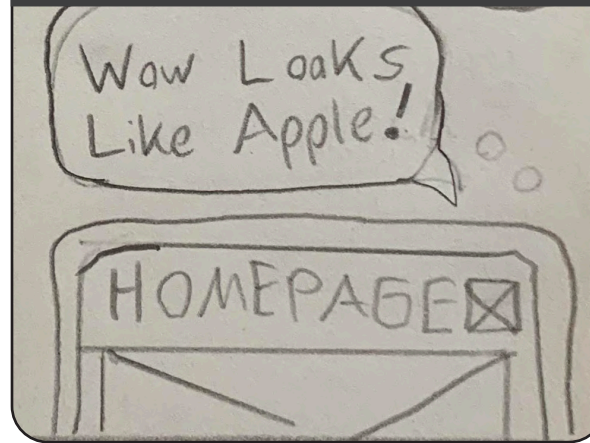
- Mark is impressed with a Candian company Polyga and decides to call them to vet them further.
- Mark prepares notes and purchase order; forwards for approval from deparment manager.

MARK'S DESK / BOTTOM OF FUNNEL

- Mark calls Polyga to see the quality of the support and communication and is impressed to be able to speak to a human engineer.
- Mark chooses Polyga 3D scanner and sends a PO.
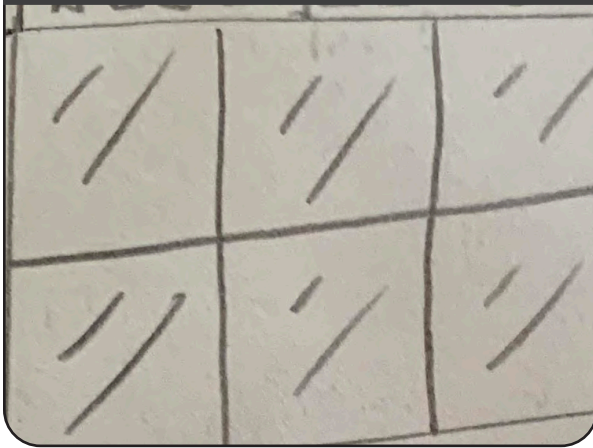
NEW PURCHASE/FRIEND WITH BEN

**USER SCENARIO 2** **USER STORY 2**

BEN RESEARCH HEAD OFFICE

- Ben is having his morning coffee about to begin his emails at his reverse engineering firm.
- Ben recieves another email that reminds him of his current backlog of projects.

BEN'S DESK / TOP OF FUNNEL

- Frustrated Ben investigates the internet for a simple fast solution to his measurment work.
- Ben land's on some youtube short videos of 3D scanning and is imporessed with the technology.

BEN'S LAPTOP / MIDDLE OF FUNNEL
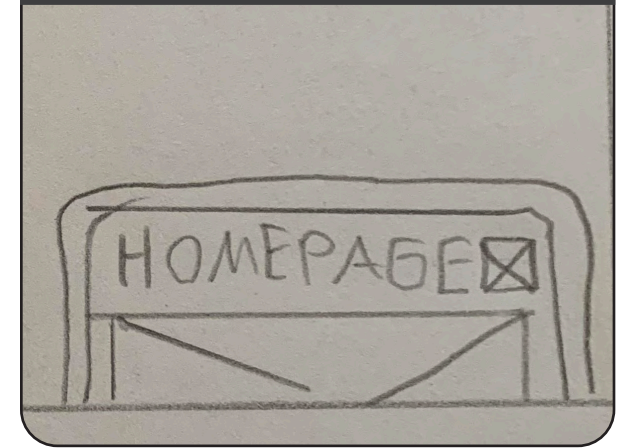
- Ben researches top10 articles on the best 3D scanners and records the consistant top brands.
- Ben googles the top brands and records his faviorites notcing again a Polyga scanner video.

BEN'S LAPTOP / MIDDLE OF FUNNEL

- Ben visits each supplier webpage and notes the most professional looking and best warranty.
- Ben chooses to purchase the best spec'd best warr natied scanner becuase he needs it to work well.

BEN'S LAPTOP / BOTTOM OF FUNNEL
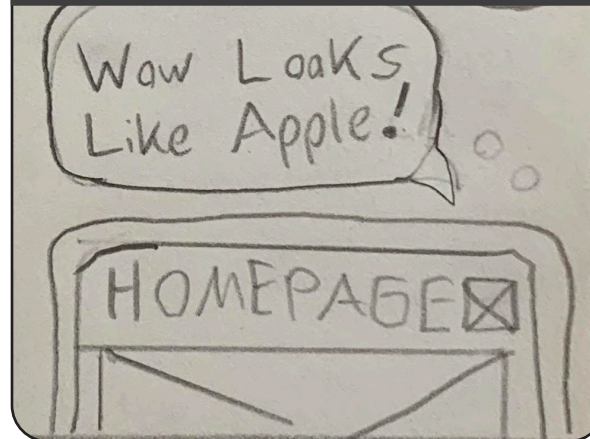
- Ben notes Polyga has best spec'd for the price scanners and is impressed with the web design.
- The chatbot asks Ben if he wants to book a demo with a sales person and he says yes.

BEN'S OFFICE / BOTTOM OF FUNNEL

- On the sales call Ben is impressed with speaking to a fellow engineer and chats about many things.
- Ben was happy to have all his questions answered by a fellow engineer and purchases a S1 Pro Wide.
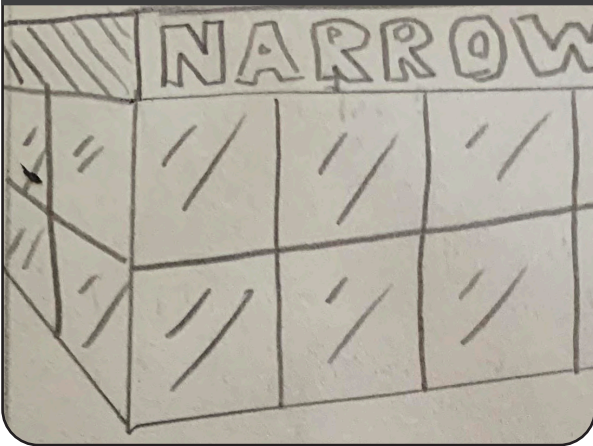
PURCHASE APPROVAL WITH RICHARD M. AND MARK
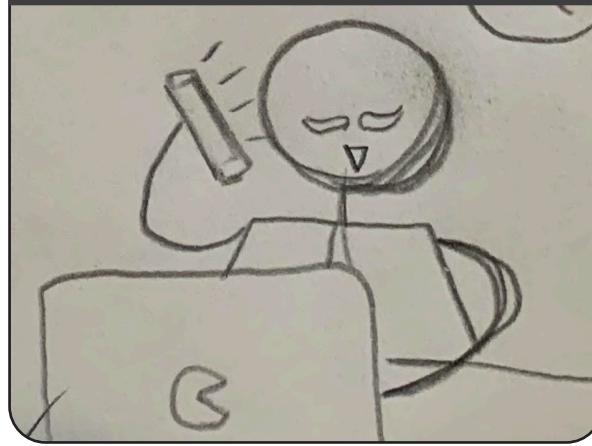
BIG GROUP HEAD OFFICE

- Richard just finished his afternoon meetings at Big Group head office.
- Char decides to check emails before he leaves for the day when he recieves a call.

RICHARD'S DESK AT BIG GROUP

- Char is told; delays by chemical suppliers has caused negative customer feedback.
- He is sent a curated list of top suppliers and forms by Andy the Service Manager.
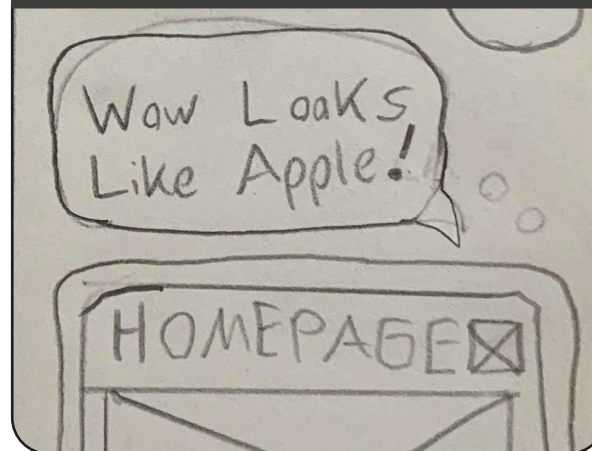
RICHARD'S DESK

- Richard is eager to keep his staff happy and looks through the web links provided.
- Richard researches each brand and documentation but he frustrated he lacks expertise on the tech.

RICHARD'S LAPTOP

WARRANTY

- He lists percieved-quality based on warranty, documentation and build-quality.
- He then compares prices with percieved-quality to determine best-percieved-value.

RICHARD'S LAPTOP

Wow Looks Like Apple!

HOMEPAGE ☒

- Richard vets best-percieved-value suppliers and is impressed the Canadian company recommended.
- Richard decides to trust his staff and take a chance on the technology.

RICHARD'S DESK AT BIG GROUP

- Richard eager to close the request before the weekend approves the purchase request.
- Richard calls Mark giving him approval to try the technology and let him know how it goes.

COMPETITIVE ANALYSIS

|	**polyga** POLYGA.COM/ YOUR COMPANY	**Artec 3D** ARTEC3D.COM/ COMPETITOR 1	**CREAFORM** CREAFORM3D.COM/EN COMPETITOR 2	**REVOPOINT** GLOBAL.REVOPOINT3D.COM/ COMPETITOR 3
Industry/ Product & Services	3D Scanning Hardware & Software	3D Scanning Hardware & Software	3D Scanning Hardware & Software	3D Scanning Hardware
Search Engine Ranking	★★★	★★★★⯨	★★★★⯨	★★★★
Google Page Speed Rating / Core Web Vitals	75% Desktop 25% Mobile Passed	41% Desktop 32% Mobile Passed	54% Desktop 72% Mobile Failed	25% Desktop 25% Mobile Failed
Product / Customer Support	★★★★	★★★★	★★★★	★★★★
Content Marketing / Marketing Material	★★★★	★★★★★	★★★★	★★★
Pricing / Value	★★★★⯨	★★★	★★★	★★★★
Marketing Strategy	Email/Phone/ Website/Social/ Newsletter/Blog	Email/Phone/ Website/Social/ Newsletter/Blog	Email/Phone/ Website/Social/ Newsletter/Blog	Email/Phone/ Website/Social/ Newsletter/Blog
Customer Satisfaction/ Brand Recognition/ Reputation	★★★⯨	★★★★⯨	★★★★⯨	★★★
Weaknesses	Low Quality Scan Samples/ Market Share	Mobile Speeds/ Desktop Speeds	Desktop Speeds /Price	Mobile Speeds/ Lack of Reputation
Advantages	Branding/ Politically Approachable	Product/Design/ Reputation/ Marketing/Share	Product/Design/ Reputation/ Marketing/Share	Product/Design/ Reputation/ Marketing/Price
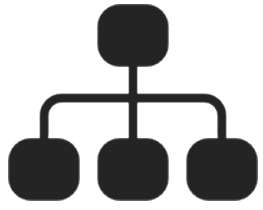
STRUCTURE

USER FLOWS	
SITEMAP	

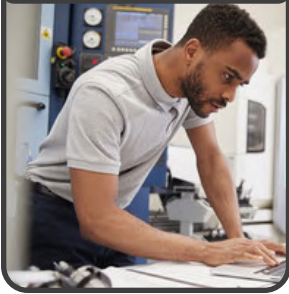|		
1	**PERSONA 1** User Flow 1	**MARK LEE** Engineer 34
2	**PERSONA 2** User Flow 2	**BEN KIM** Lead Engineer 42
3	**PERSONA 3** User Flow 3	**RICHARD M.** Procurement Manager 48
4	**SITEMAP**	
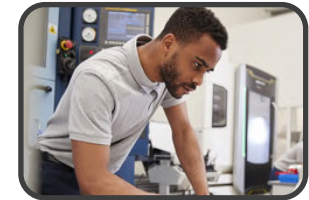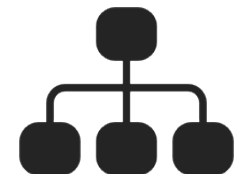
USER FLOW

MARK LEE

SCENARIO

Mark is a proud mechatronics engineer of 2 years working at his dream job at a research & development lab and wants to streamline his workflow.
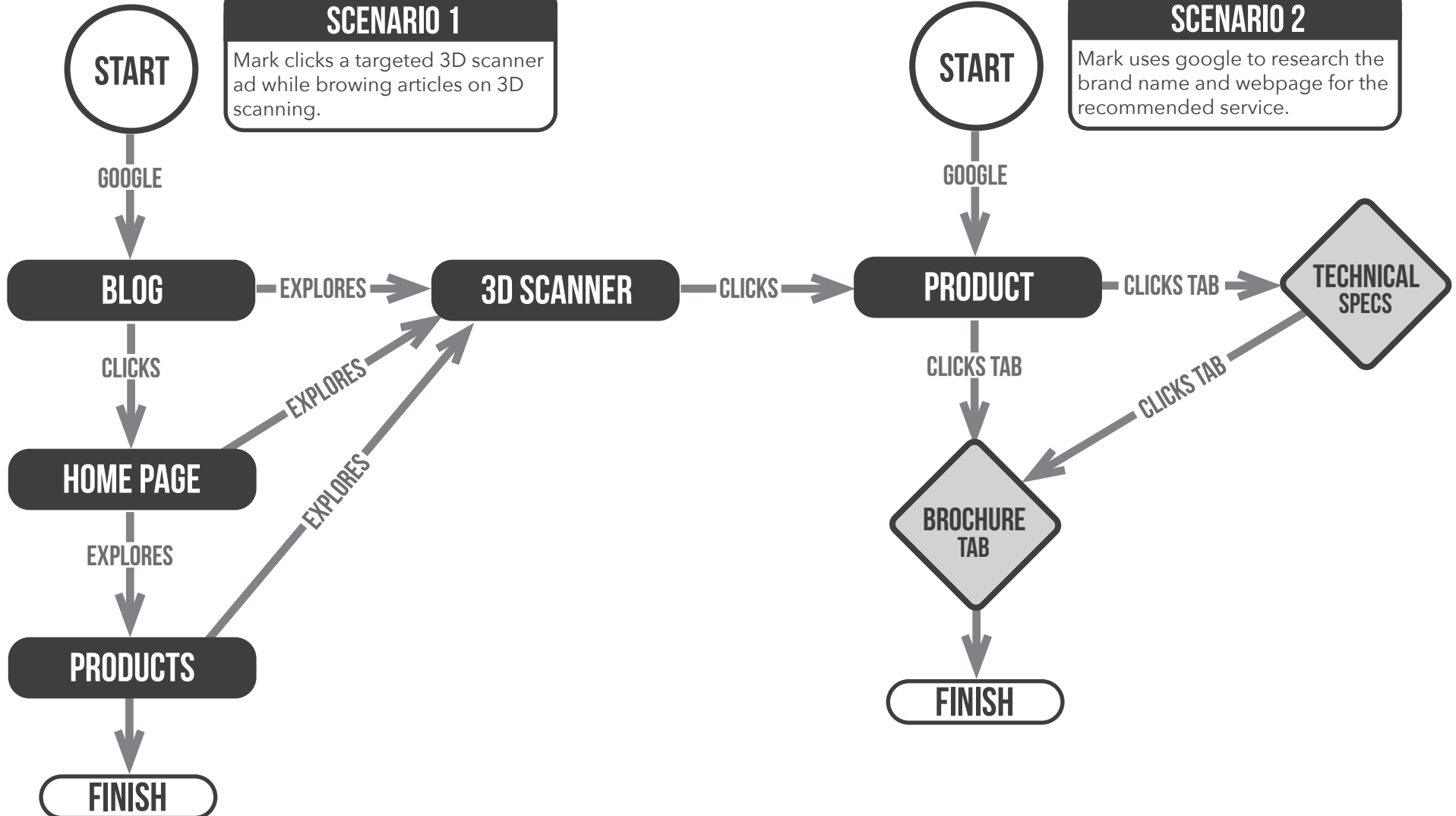
GOALS & EXPECTATIONS

Research and vet technologies and solutions. Check to see if the company seems reputable. He suspects good top10 placement/design/documentation an indicator of quality and reliability of product/brand.

SCENARIO 1

Mark clicks a targeted 3D scanner ad while browing articles on 3D scanning.

SCENARIO 2

Mark uses google to research the brand name and webpage for the recommended service.

START → GOOGLE → **BLOG**

BLOG → EXPLORES → **3D SCANNER**

BLOG → CLICKS → **HOME PAGE**

HOME PAGE → EXPLORES → **3D SCANNER**

HOME PAGE → EXPLORES → **PRODUCTS**

PRODUCTS → EXPLORES → **3D SCANNER**

3D SCANNER → CLICKS → **PRODUCT**

PRODUCTS → **FINISH**

START → GOOGLE → **PRODUCT**

PRODUCT → CLICKS TAB → **TECHNICAL SPECS**

PRODUCT → CLICKS TAB → **BROCHURE TAB**

TECHNICAL SPECS → CLICKS TAB → **BROCHURE TAB**

BROCHURE TAB → **FINISH**

USER FLOW

BEN KIM

SCENARIO

Ben has to vet possible suppliers and lists marketing material, brand names and links to research the reputation and inherent reliability of companies.
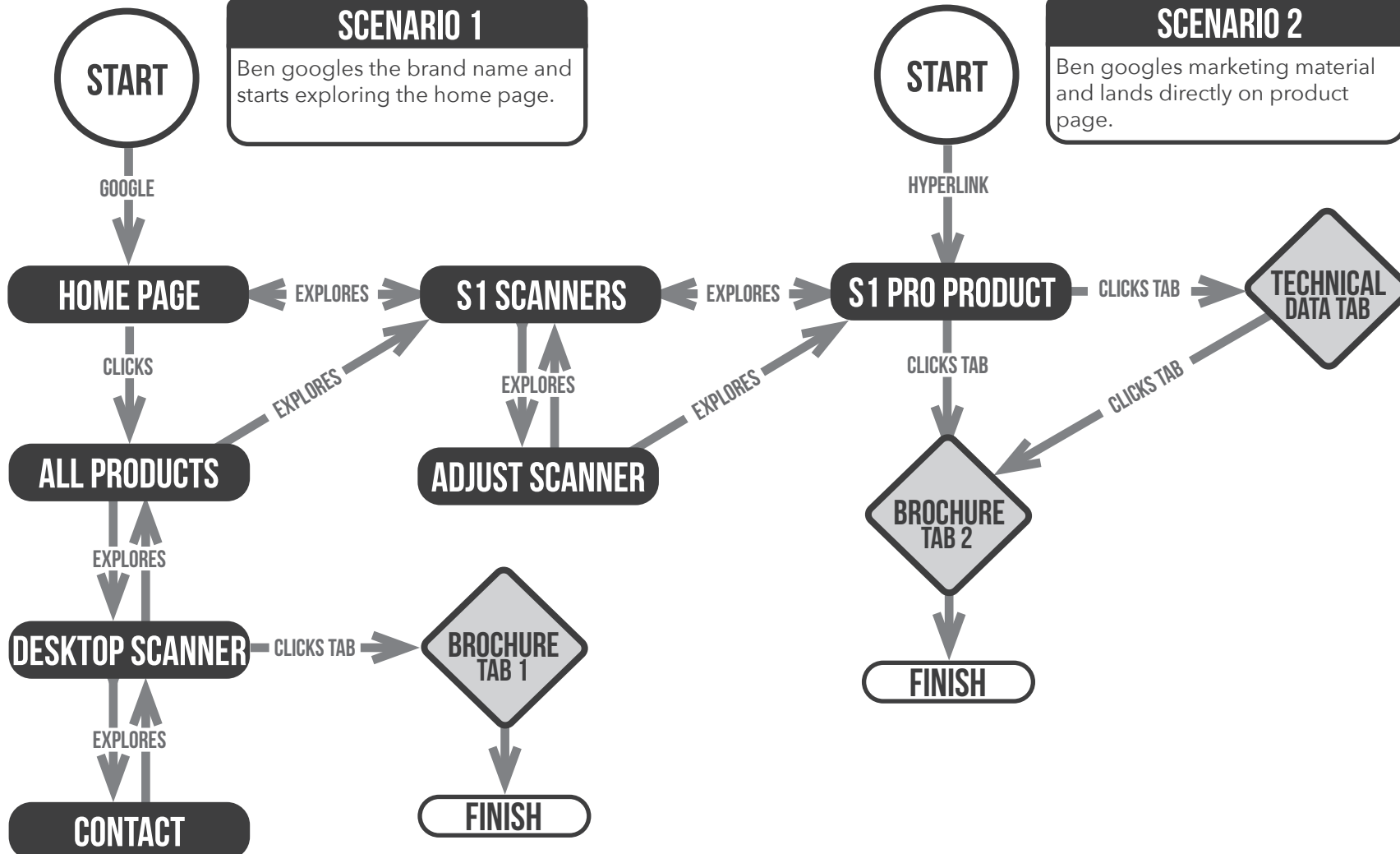
GOALS & EXPECTATIONS

Ben's goal is to check vet reputation and legitimacy of a new supplier. He expects good documentation to be an indicator of quality. He expects a good reputable company can afford good documentation and information architecture.

START

SCENARIO 1
Ben googles the brand name and starts exploring the home page.

START

SCENARIO 2
Ben googles marketing material and lands directly on product page.

GOOGLE

HYPERLINK

HOME PAGE ← EXPLORES → **S1 SCANNERS** ← EXPLORES → **S1 PRO PRODUCT** — CLICKS TAB → **TECHNICAL DATA TAB**

CLICKS

EXPLORES

EXPLORES

EXPLORES

CLICKS TAB

CLICKS TAB

ALL PRODUCTS — EXPLORES → **ADJUST SCANNER**

EXPLORES

BROCHURE TAB 2

EXPLORES

DESKTOP SCANNER — CLICKS TAB → **BROCHURE TAB 1**

FINISH

EXPLORES

FINISH

CONTACT

FINISH
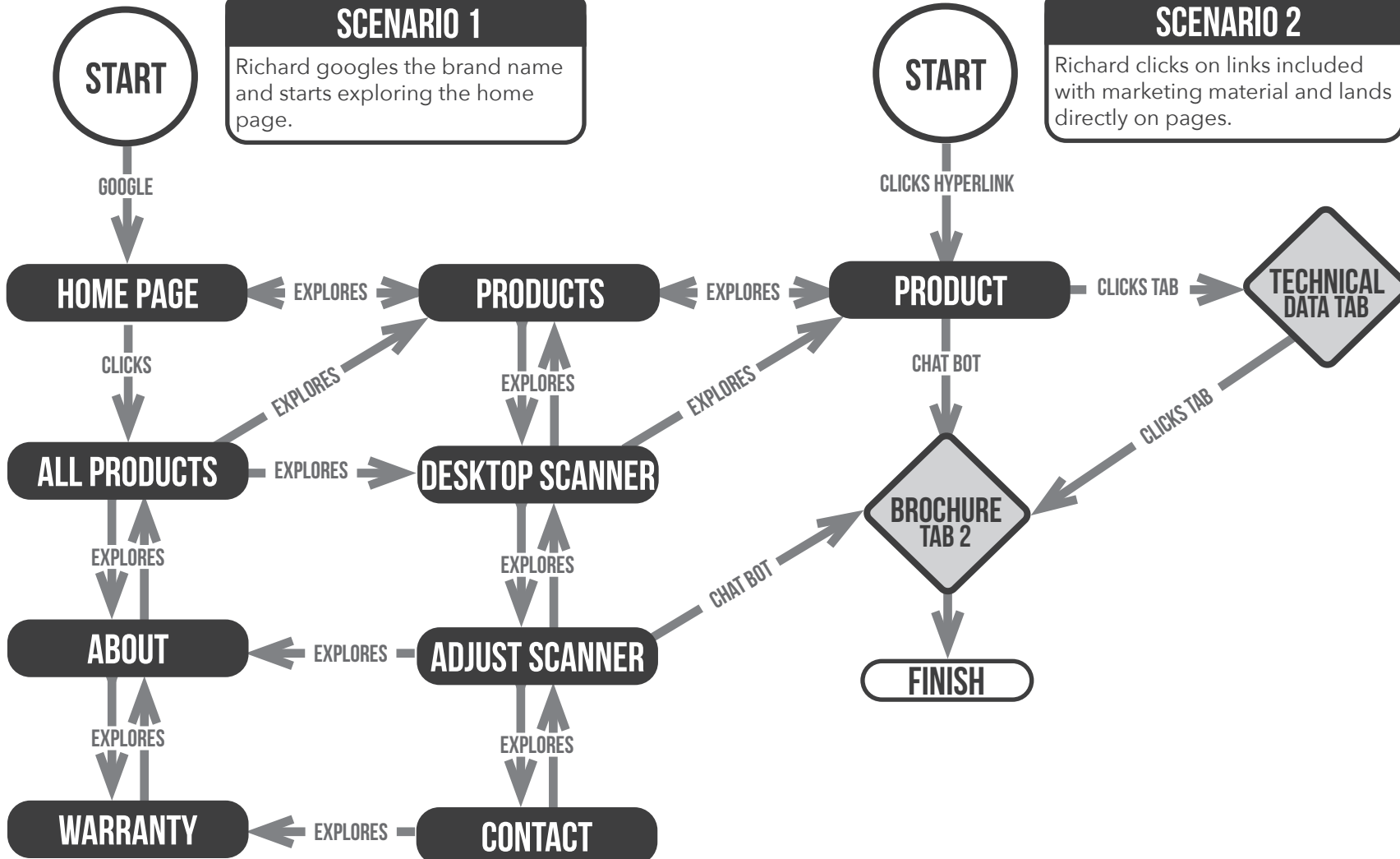
S E C T I O N   3
SITE MAP
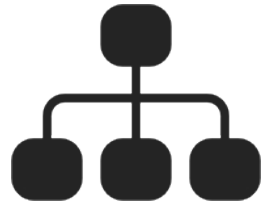
A site map is a model of a website's content designed to help both users and search engines navigate the site. A site map can be a hierarchical list of pages (with links) organized by topic, an organization chart, or an XML document that provides instructions to search engine crawl bots.

SITEMAP

DOCS

RESELLERS

STATISTICS

PUBLIC FACING

HOME — LOGIN

HOME | ABOUT | ALL PRODUCTS | BLOG | VIDEOS | SHOP | CONTACT FORM | SEARCH

PRODUCTS

BROCHURE

SPECS
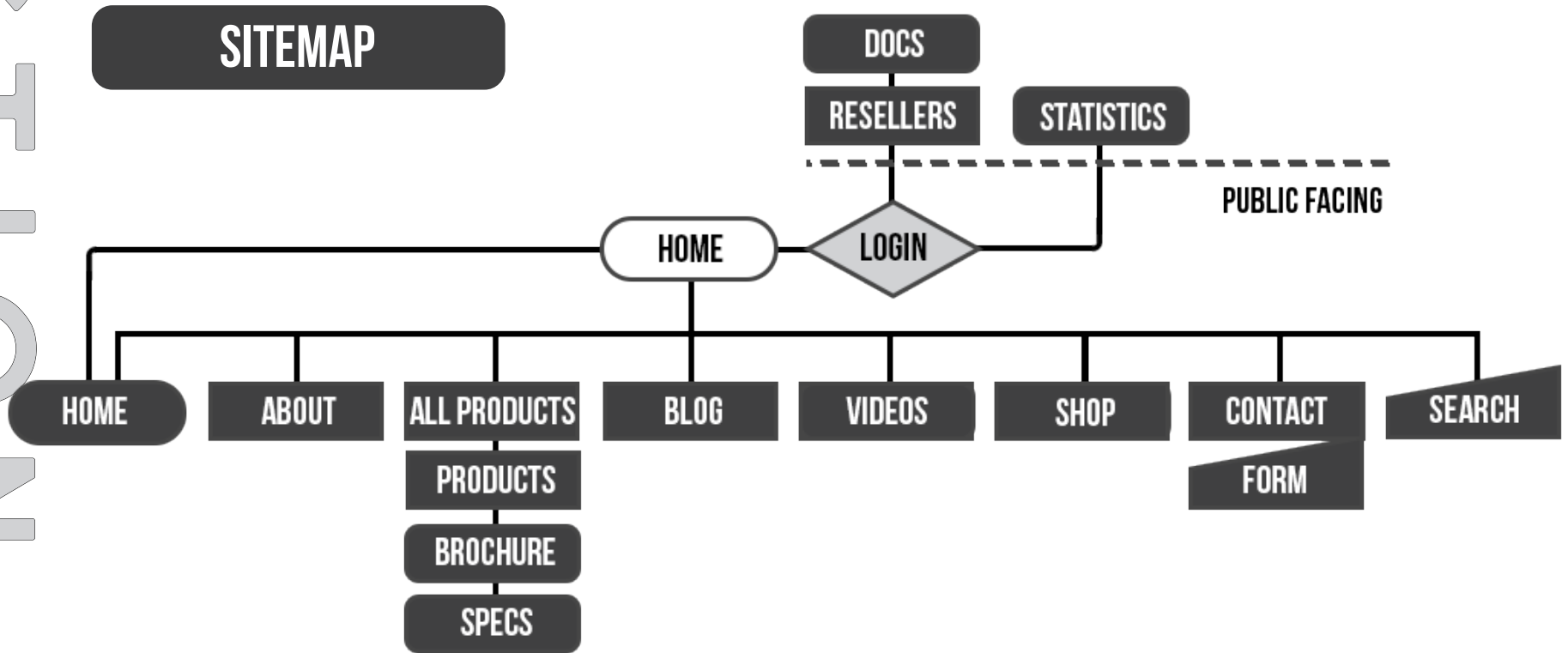
SITEMAP
Illustration of pages to be indexed.
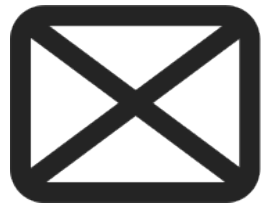
SECTION 4
SKELETON

LO-FIDELITY PROTOTYPE/WIREFRAME

MENU DESIGN/INFORMATION ARCHITECTURE

1

DESKTOP LO-FIDELITY PROTOTYPE
Low-Fidelity Prototype 1-9   Information Architecture
Wire-frames   Interaction Design

2

MOBILE LO-FIDELITY PROTOTYPE
Low-Fidelity Prototype 1-12   Information Architecture
Wire-frames   Interaction Design

WIRE-FRAMES

LO-FIDELITY PROTOTYPE

WIRE-FRAMES

HOME PAGE

HEADER

BODY

HEADING HEADING

PRODUCT 1 PRODUCT 2

HEADING HEADING

PRODUCT 3 PRODUCT 4

HEADING HEADING

FOOTER

PRODUCTS PAGE

HEADER

SLIDER MENU

BODY

SLIDE 1 SLIDE 2 SLIDE 3 SLIDE 4

PRODUCT

PRODUCT

FOOTER

W I R E - F R A M E S

SCAN SAMPLES

HEADING

HEADING

SAMPLE 1

HEADING

HEADING

SAMPLE 2

HEADING

SAMPLE 3

HEADING

SAMPLE

SAMPLE

SAMPLE

BLOG

HEADING

HEADING

BLOG 1

HEADING

BLOG 2

HEADING

BLOG 3

HEADING

BLOG 4

HEADING

BLOG 5

HEADING

BLOG

VIDEO PAGE

HEADING

HEADING

VIDEO 1

HEADING

VIDEO 2

HEADING

VIDEO 3

HEADING

VIDEO 4

CONTACT

RESOURCE CENTER

HEADING

SLIDE 1 SLIDE 2 SLIDE 3 SLIDE 4

HEADING

SLIDE 1 SLIDE 2 SLIDE 3 SLIDE 4

HEADING

SLIDE 1 SLIDE 2 SLIDE 3 SLIDE 4

CONTACT

LEARNING CENTER

HEADER

HEADING

HEADING

BLOG

HEADING

HEADING

BODY

CONTACT

FOOTER

CONTACT PAGE

HEADER

HEADING

BODY

CONTACT FORM

ADDRESS

FOOTER

404 PAGE

MISSING LINKS

HEADER

BODY

HEADING

CONTACT

FOOTER

W I R E - F R A M E S

ABOUT

HOME

CONTACT

HEADER

HEADER

HEADER

FORM

CATALOG

PRODUCTS

BLOG

CATALOG

SLIDE 1 SLIDE 2

SLIDE 1 SLIDE 2

SLIDE 3 SLIDE 4

WIRE-FRAMES

LEARNING CENTER

RESOURCES
HEADER

SLIDE 1
SLIDE 2
SLIDE 3
SLIDE 4

VIDEOS
HEADER

VIDEO 1

VIDEO 2
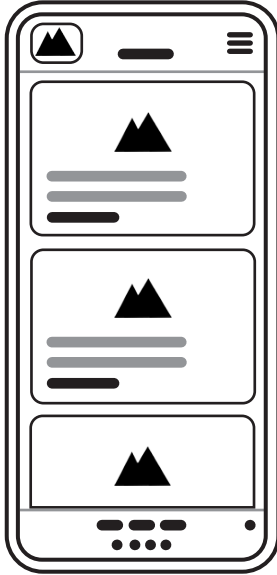
SCAN SAMPLES
HEADER
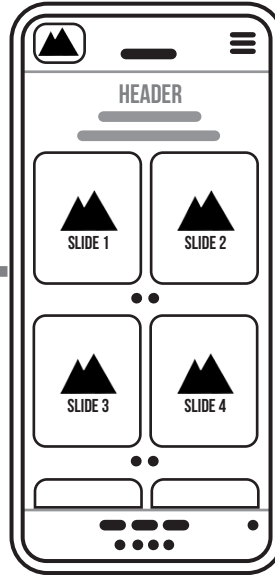
SAMPLE 1

SAMPLE 2
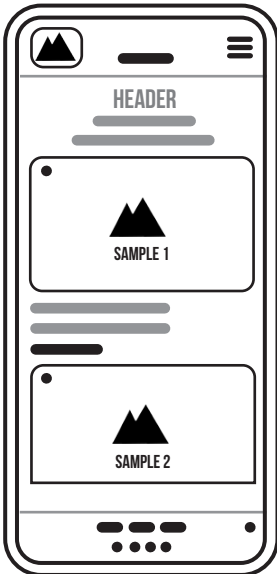
USER MANUALS
HEADER
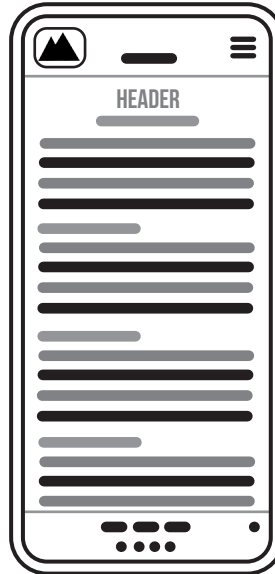
CASE STUDIES
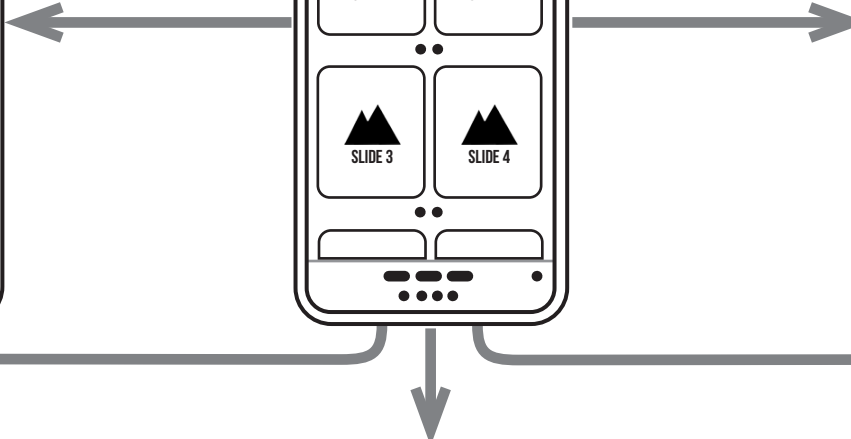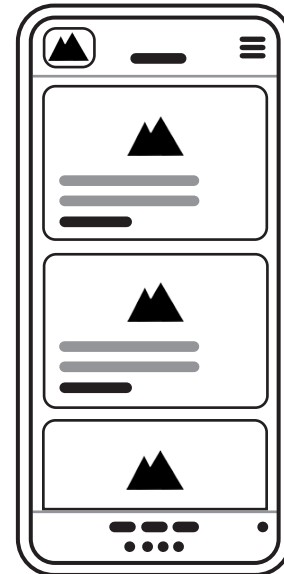
SECTION 5

SURFACE

HI-FIDELITY PROTOTYPE/MOCK-UP

DESIGN SYSTEMS/STYLE GUIDE

The design system is the standardized style-guide system popularized by the Interaction Design Foundation.

1

DESKTOP   HI-FIDELITY PROTOTYPE

High Fidelity Prototype 1-6   Menu Design
Mock-Up   Information Architecure

2

MOBILE   HI-FIDELITY PROTOTYPE

High Fidelity Prototype 1-12   Menu Design
Mock-Up   Information Architecure

3

STYLE GUIDE   DESIGN SYSTEM

Brand Idenity   Fonts Typography
Logo   Icon Library/Iconagraphy

MOCK-UP

HIGH-FIDELITY PROTOTYPE

PRODUCT PAGE 1

HOME PAGE
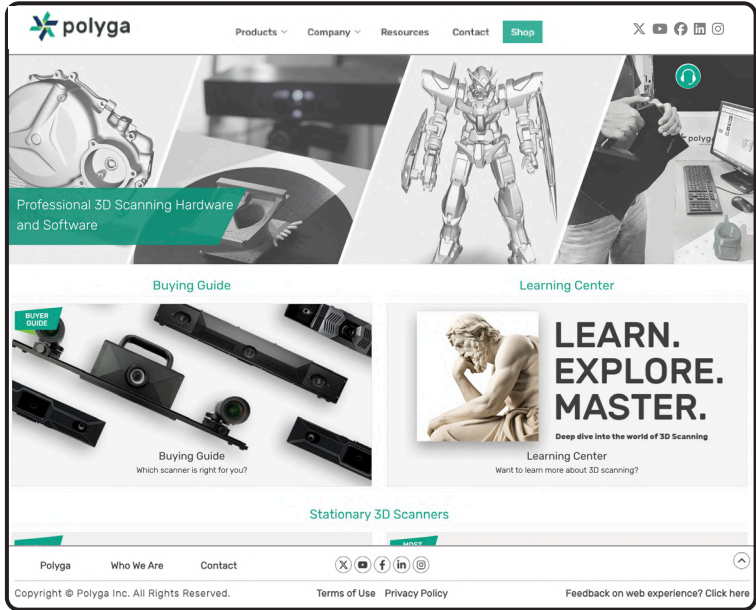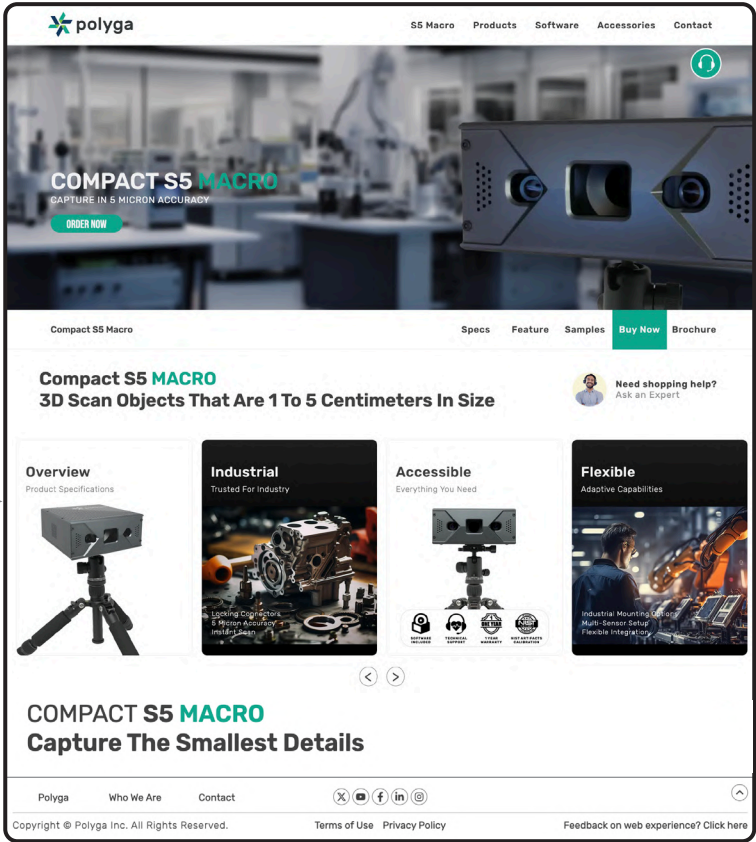
PRODUCT PAGE 2

PRODUCT PAGE 3

Product Page 2

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COMPACT S1 PRO
NEW DESKTOP 3D SCANNER
ORDER NOW

Compact S1 Pro · Specs · Feature · Samples · **Buy Now** · Brochure

Compact S1 Professional
An Affordable Industrial Grade 3D Scanner.

Need shopping help?
Ask an Expert

Comes In Two Configurations

S1 PRO · S1 PRO WIDE

Overview — Product Specifications
Industrial Grade — Trusted For Industry
Scan Accuracy
30µm
Point to Point
0.048 mm
Highlights — Product Highlights
Full Color Scans — Color Texture Support

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Product Page 3

polyga · Carbon X · Products · Software · Accessories · Contact

CARBON X

CARBON X. The Best Is Now Better.
New Improved Flexible Field Of View Scanner.

Need shopping help?
Ask an Expert

Overview — Technical Specs
New Projector — Blue Light Technology
Features — Product Highlights
Adjustable Fov — Scan Different Sizes

Product Overview

Model	Carbon X	Field of view	220mm ø – 975mm ø
Product dimensions	W = 200mm (500mm with rail) H = 108mm L = 271mm to 315mm	Standoff	290mm – 1220mm
		Point to point distance	0.038mm – 0.45mm
Accuracy	25µm at smallest FOV / 70µm at max FOV	Camera Resolution	2 x 5.0 megapixel
Scan speed	250ms (0.25 seconds)	Connectivity	USB 3.0
3D Resolution	Up to 5 million	Power source	12V ~ 10A DC Power
Texture resolution	5.0 megapixel monochrome	Output formats	3D3, ASC, OBJ, PLY, STL, FBX

FlexScan Software Multi Language Support available in English, French, German, Chinese, Japanese, Korean.

DOWNLOAD BROCHURE

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PROTOTYPE

HEADER   BODY   FOOTER

HEADER   BODY   FOOTER

Product Features

polyga | S5 Macro   Products   Software   Accessories   Contact

Product Dimensions	L = 168mm	Linear Field of view (H x W)	39mm × 44mm at closest range 44mm × 48mm at furthest range
Accuracy	5 microns		
Scan speed	250ms (0.25 seconds)	Point to point distance	0.021mm
3D Resolution	Up to 5 million	Power source	12V = 6A DC Power
Texture resolution	5.0 megapixel color	Output formats	3D3, ASC, OBJ, PLY, STL, FBX

FlexScan Software Multi Language Support available in English, French, German, Chinese, Japanese, Korean.

DOWNLOAD BROCHURE

INDUSTRY READY | Industrial Performance

EXTREME DETAIL
5MP cameras equipped with a short baseline reduces occlusion data.

BUILT TO LAST
Constructed using aluminum alloy with a scratch-resistant finish.

5 MICRON ACCURACY
Each scanner is calibrated and tested with NIST certified artifacts to ensure that every 3D scan returns metrology grade results.

INSTANT SCAN
Capture 5 million points in 0.86 seconds.

PRO FLEXIBLE | Built for Automation

MULTI SENSOR SETUP
Control multiple scanners from a single PC. Easily integrate multiple scanners.

FLEXIBLE INTEGRATION
Tap into the full potential of the scanner using Polyga's SDK.

INDUSTRY READY
External Trigger support & Locking USB for seamless automation.

INDUSTRIAL MOUNTING
Mounting points allow for secure attachment in industrial automations.

USB

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Blog Page

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LEARNING CENTER

BLOG

LEARN. EXPLORE. MASTER.

Your Guide to the Wonderful World of 3D scanning

3D Scanning Learning Center

Welcome to the extraordinary world of 3D scanning at our cutting-edge 3D scanning learning center!

Our 3D scanning learning center is a haven for inquisitive minds, where the art and science of structured light scanning come alive. From meticulously crafted buyer's guide and courses to awe-inspiring case-studies, our resource center has you covered.

Ignite your curiosity, expand your horizons, and experience the power of structured light 3D Scanning, all in one easy to find place, the Polyga learning center!

3D SCANNING 101

3D SCANNING 101 | BASICS
STRUCTURED LIGHT 3D SCANNING

LIGHT PROJECTOR

3D SCANNING 101   6 Minutes

Basics of Structured Light 3D Scanning

Welcome to the extraordinary world of 3D scanning at our cutting-edge 3D scanning learning center!

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Read article +

3D SCANNING 101 | APPLICATIONS
REAL WORLD APPLICATIONS

SUBJECT   3D MODEL

3D SCANNING 101   6 Minutes

Real World Applications of Structured Light 3D Scanning

Welcome to the extraordinary world of 3D scanning at our cutting-edge 3D scanning learning center!

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Read article +

3D SCANNING 101 | SIZE LIMITATIONS
STRUCTURED LIGHT 3D SCANNING

SUBJECT   SOFTWARE   3D MODEL

3D SCANNING 101   6 Minutes

Size Limitations of Structured Light 3D Scanning

Welcome to the extraordinary world of 3D scanning at our cutting-edge 3D scanning learning center!

Our 3D scanning learning center is a haven for inquisitive minds, where the art and science of structured light scanning come alive. From meticulously crafted buyer's guide and courses to awe-inspiring case-studies, our resource center has you covered.

Read article +

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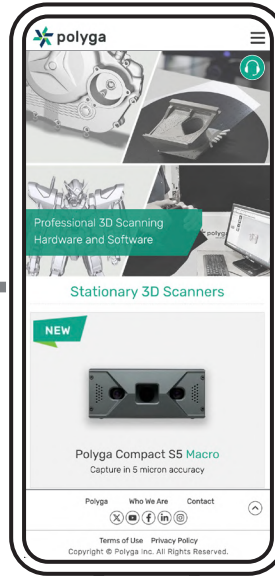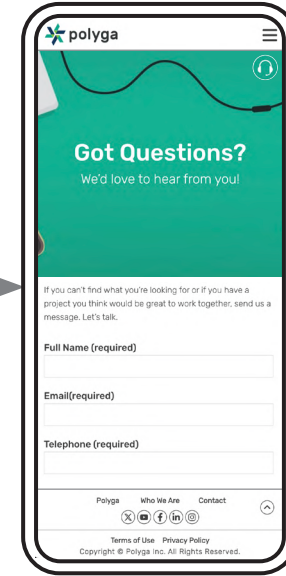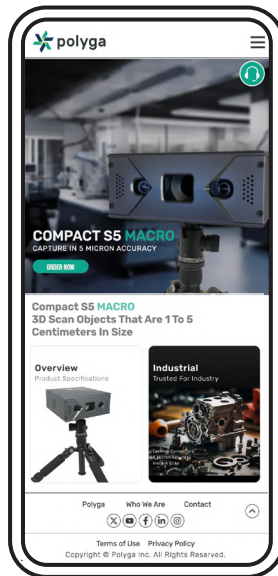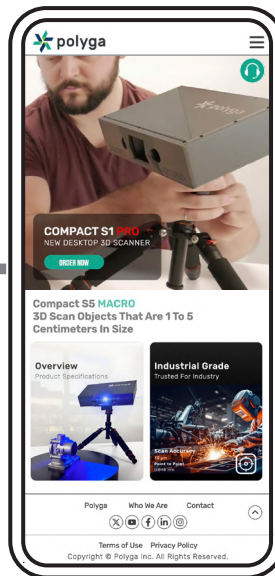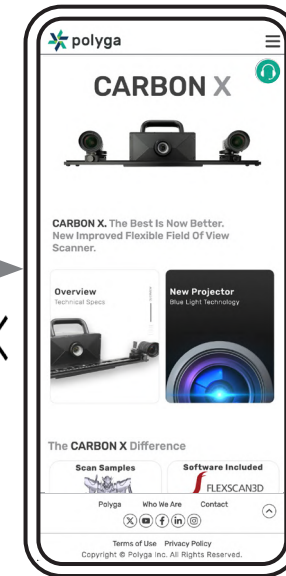
DESKTOP

MOBILE

polyga

UI STYLE GUIDE

Carbon X/ S1 Pro Style Guide

2023

01. TYPEFACE

Rubik True Type

Aa   Aa   **Aa**

Light   Regular   Semi-bold

H1 - Rubik Semi-bold (50px)

H2 - Rubik Semi-bold (30px)

H2 - Rubik Regular (30px)

H3 - Rubik Semi-bold (25px)

H4 - Rubik Semi-bold (17px)

02. PARAGRAPH

Lorem ipsum dalor - Rubik Semi-bold (17px)

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod **tempor incididunt** ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. " - Rubik Regular / Semi bold (14px)

#414142   #808080

03. TABLE

(Rubik Semi Bold - 14px)	(Rubik Light - 14px)
Accuracy	13.5um - 65um*
Scan speed	250ms (0.25 seconds)
3D resolution, up to	≥ 5 million*

#414142   #939598

04. NAVIGATION BAR & FOOTER

#414142   #E7E7E8   Hover - #939598
Typeface - Rubik Regular

Desktop

100%
90%

polyga   compact S1 Pro   hardware   software   accesories   contact | 70px

(Logo - 63px)   (Bot Border - 1px)   (Font - 14px)

Tablet

100%
90%

polyga   ☰
compact S1 Pro › | 70px
hardware ›
software ›   (Font - 14px)

Phone

100%
90%

polyga   ⌕ ☰ | 70px
compact S1 Pro › | 70px
hardware ›
software   (Font - 14px)

05. COLOR PALLETE

Primary

#08A88E   #DB0000

Neutral

#414142	#808080	#939598	#E7E7E8	#F3F3F4
90%	60%	50%	10%	5%

06. BUTTONS

(Typeface – Bebas Neue 22px)   (Hover - #08A88E)

23px | **REQUEST A QUOTE** | 68px   **REQUEST A QUOTE** | 68px

68px

🎧 Contact - Custom SVG   (Hover - #08A88E)

🔴 | 68px   **CONTACT US**

#414142   #E7E7E8   box-shadow: 0 2px 18px -10px rgba(0,0,0,.3);

S1 Pro | S1 Wide

75px

07. ICONS

f Facebook - F39E   Icon Size - 15px
𝕏 Twitter - E61B   Border Size - 25px
▶ Youtube - F167   Border - 1px   Hover
in LinkedIn - F0E1   Color - #414142   Color - #808080
◉ Instagram - F16D
🔍 Search - F002   Border - 1px
› Chevron - F054
☰ Hamburger - Custom

08. AVATARS

Size - 100px

09. CONTAINERS

Corner - 12px
Border - 1px
#E7E7E8
#E7E7E8

#E7E7E8

Hover   box-shadow: 0 2px 18px -10px rgba(0,0,0,.3);

#F3F3F4
5%

10. FORMS

(Typeface - Rubik Regular 22px)

Your Email | Subscribe | 68px

(Hover - #08A88E)

Mobile (Right column)

#414142   #E7E7E8   Hover - #939598
Typeface - Rubik Regular

Desktop

100%
90%

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(Border - 1px)   (Font - 14px)

Tablet

100%
90%

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▣▣▣▣▣ △ | 200px
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(Icons - 30px)   (Font - 14px)

Phone

100%
90%

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(Icons - 30px)   (Font - 14px)