# Carefree Spec

### Introduction

This spec is focused on the design and development of the minimally viable product (MVP) for our product, Carefree; meaning that the design and development sections (I.e. UX and Work Breakdown) present solely high-priority features that will be included in the MVP. Additional features are mentioned but are not broken down into further details.

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### **Problem statement**

The lack of transparency and accessibility to information regarding insurance coverage plans prevents young adults from accessing safe and affordable healthcare.

# Summary

Do you know the cost of a medical visit before you receive the medical bill? Do you feel lost whenever you try to understand your health care? For the young adults like you who are always on the go and have experienced the frustrations of finding information regarding health care services, or the fears of not being able to afford care, Carefree is a web app that helps users identify services that are accessible, affordable, and catered to their needs. Unlike traditional insurance brochures and doctor websites

which are hard to navigate, Carefree offers a central, go-to spot in finding the right doctor for the best price.

# **Customer profile**

Initially, our target audience includes young adults with ages ranging from 18 to 15.

- Who young adults ranging from the ages of 18 to 25
- What who are not familiar with navigating the healthcare system and are living on very tight budgets
- Where within the United States, including rural, suburban, and urban areas
- Why -

A lot of young adults are on a tight budget and struggle to find health care services that are affordable.

- Many young adults are seeking healthcare services without parents/guardian help for the first time
- o Understanding medical terms can be very difficult, and expensive.
- When they need to seek a specialized health service, generally after visiting
- How -
  - Search for services, and filter out options based on preferences
  - Get a comparison of various providers

### User Story #1

Sarah is a college senior attending a private Liberal Arts college in New York. She works under a tight budget because she has taken out student loans to support her education. As a college Athlete, Sarah is not only prone to injury but also always on the go and never finds the time to search for affordable services. Everyday Sarah enjoys going on morning runs before class. On Monday, while running Sarah slipped on ice and sprained her ankle. She decided to buy painkillers over the counter and try at-home remedies to treat her injury. As this injury began to affect her ability to play on her team, she decided to seek medical attention after a couple days and asked her friends for recommendations on cheap health service providers in New York.

### User Story #2

Ojok is a college Freshman who is an international student from Kenya. Ojok is often required to pay out of pocket for some health services after visiting the hospital uncertain of what was covered by the college insurance. The quest for information about in-network services provided by the school motivates Ojok to frequently check the college website. However, Ojok always finds the information on the website confusing with many complex terms.

### User Story #3

Grace is a young adult that moved from California. She recently graduated from college and now works in a city a few hours from home. Beyond visiting a personal care provider, she isn't quite aware of which specialists she should visit, and which ones would have access to her medical records. In the past, her parents dealt with the details of scheduling appointments and covering costs, but now that she lives on her own, the terminology and ambiguity in how much a visit will cost discourages her from visiting most doctors.

### Goals

- To improve accessibility to health care information- People who seek medical attention often lack Information on health care services that are in-network for different coverage plans. Our product will enable users to promptly access information about various health care providers, allowing users to make more informed decisions regarding their health.
  - Allow users to gain more background knowledge on health care professionals through the doctor's profile
  - o Provide users with information on the doctor's background and specialties
  - Help users understand health care terms they may be unfamiliar with
- Increase informed decision making about the cost of health care services- Our product will provide costs of different health care services to enable users to learn about the affordable services available to them.
  - Provide cost estimates for different health services to the users

# In scope scenarios

Criteria:

P0 features are...

- Necessities the user utilizes in looking for a provider to eventually finding/choosing a provider
- Key to distinguishing our product from competitors
- Essential in the Minimal Viable Product

P1 features are...

- Not necessary for the user walkthrough (looking for a provider to finding/choosing a provider), but support PO's to improve user experience
- Valuable to add once POs are fully developed
- Not stand-alone features

### P2 features are

- Nice-to-haves
- Stand-alone features, purpose is not to support P0 features, instead solely in improving user experience
- Can be mentioned in the assumptions

### Pages:

- P0 Home Page
- P0 Doctor Page
- P0 Filter Page
- P0 Comparison Page
- P2 User Profile

### P0:

- 1. (All) Navigation Bar
- 2. (Home) Search Bar
- 3. (Filter) Proximity, in-Network, budget filters
- 4. (Filter) Add doctor to comparison list
- 5. (Filter Provider List) Display phone number and email on card
- 6. (Filter Provider List) Price Gauge
- 7. (Filter Provider List) Doctor Card
- 8. (Doctor) Information sections
- 9. (Doctor) Doctor's information
- 10. (Doctor) Dropdown with services applicable to the individual doctor
- 11. (Comparison) Full comparison display
- 12. (Comparison) Remove doctor

### P1:

- 1. (All) Complex terms description
- 2. (Home) Top Searches
- 3. (Home) Popular Specialties

- 4. (Filter) More Filters
- 5. (Filter) Collapsible Filter
- 6. (Filter Provider List) Change number of cards viewed
- 7. (Doctor) Ratings/Testimonies
- 8. (Doctor) Additional Information
- 9. (Comparison) Additional Rows languages, years of practice etc.

### P2:

- 1. (User profile) Favorites
- 2. (Filter Provider List) Directly call/email provider

# Out of scope scenarios

The following are not accessible within our product:

- Users can schedule appointments for the user
- Users can utilize features to deal with emergency situations
- Users can receive information about choosing insurance providers
- Users can receive remedies/solutions for their health-related issues
- Users can find a diagnosis on their health-related issues

### UX

Our product will be a web app that will provide in-depth information about different health providers. The walkthrough displays P0, P1, and P2 features, though P1 and P2 features are not included in the minimal viable product.

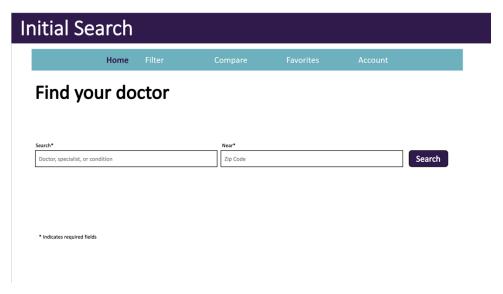
### Assumption

Before the user lands on the search page, we assume that the user:

- Signs in with an account, inputs personal information that we will use to personalize experience
- Knows what procedure to get and what provider to visit, and has already visited a general practitioner
- Can set an appointment with the desired provider without additional help from the app

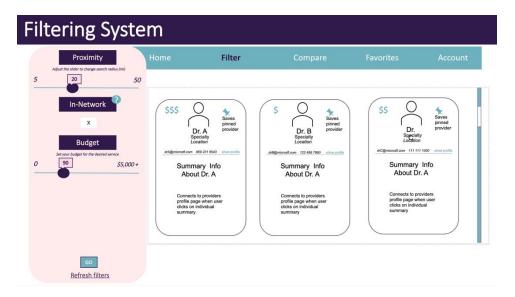
### **Home Page**

Once on the page, the user may input a specific provider's name, field of specialty, or condition they wish to get treated and they will be directed to the filter page when they hit search.

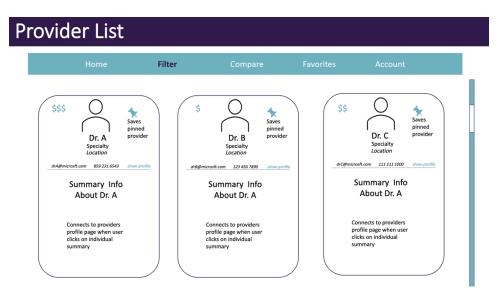


### **Filtering System and Providers List**

The filter page includes a filtering system and a list of providers. Within the filtering system will enable, the user adjusts filters to narrow down provider options. The user moves sliders to determine the size of the search area or indicate the budget to cover medical costs. The user can also specify the search to only in-network providers. For additional support, the user can select and add more filters, as well as collapse the filter to better view options.



The providers list will be a list of providers available based on the filters selected in the filtering system. The list provides summarized information about the providers with an option to call or email them, including a price gauge provide an estimate of how costly the range of provider's service is in comparison to similar providers. When a user clicks on an individual provider's card, they will access that doctor's profile.



### **Doctor Profile**

The Doctor Profile page allows users to gain more background information on local doctors that offer affordable health care services. The doctor page provides information such as insurances accepted, and services offered by that doctor. The user will also be able to view the doctor's contact information and contact them in order to book an appointment. When the user visits the doctors page, each section will be a drop down, and the user can expand the windows for more information on that topic.

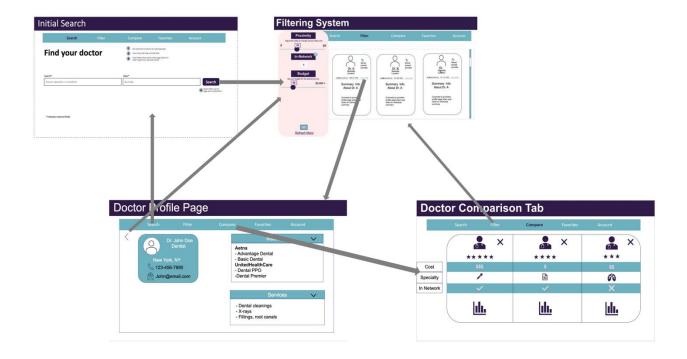
# Dr. John Doe Dentist New York, NY 123-456-7890 John@email.com Services Dental Cleanings - X-rays - Fillings, root canals

### **Comparison Page**

The comparison page enables users to get a more in-depth look at multiple doctors at once. Each doctor will have more information than seen on the filter page, and if users want to learn more, they can tap on the doctor and go to the individual page.



## **Navigation**



# **Breakdown of work**

Key:

Green - PO

Yellow - P1

**Red** – P2

Lighter shades of the colors specified above indicate that the assignment is of lower priority (I.e. lighter green has a lower priority than darker green).

User Story	Pri	Engineering Description	Depends on	Assigned to:
(All) Navigation Bar	P0	Connect the pages together and change pages on button presses	Having Mock Pages	Concepta – nav bar, links to each page (as a component)
(Home) Search Bar	P0	The user will input either a doctor or service, so we need a data structure for to hold the list of doctors and list of providers. After the user input, the	None	lan – home page layout

		home page will send the user to the		
		filter page with the input as a filter		
		Things to keep in mind: The data structure for storing this information, is there two search bars, is there an active drop down that shows results as you type  Very important: Search and filter need a system to open the filter page with the input fields from search as a filter		
(Filter) Proximity, in-Network, budget filters	PO	Depends on each doctor having quantifiable attributes that will act as values for each filter. When a filter is applied, the list of doctors has to be iterated, checking the filter attribute, so the list of shown doctors will update for the user	Search results from search bar (not urgent), Doctor card	Dennis – filter page layout, refresh search results from go
		Things to keep in mind: May need to have a separate data structure to hold the list of currently shown doctors		
(Filter) Doctor Card	PO	Needs a doctor object that includes attributes for all the filters, basic information, and a list of accepted providers. Each card will show a small amount of data, and when pressed, will send the doctor object to a template doctor page to fill out.	None	lan – create doctor component, for layout.
(Filter) Add doctor to comparison list	PO	Each doctor card also needs to have a button to add to the compare page, so pressing the button will add the doctor object to a list (limited at 3 or 4)	Doctor card,	Ian, Carlos
(Doctor) Information sections	PO	Mostly requires CSS to use dropdowns to open and close information	None	Rachel – layout of doctor page
(Doctor) Doctor's profile	PO	Research task + Layout Things to keep in mind:	None	Rachel – layout (for now)

(D ) ) D	P0	Research Task	None	TBD
(Doctor) Dropdown with services applicable to the individual doctor	FU	nescuren rusk	Hone	
(Filter - Provider List) Display phone number and email on card	PO	Research task + Layout	None	TBD
(Filter - Provider List) Create Price Gauge and Display on Card	PO	Research Task + Layout	None	TBD
(Comparison) Full comparison display	PO	Requires CSS and displaying an "expanded" doctor's card with additional information side by side (In columns) Things to keep in mind: Will the cards be connected horizontally, rows will need to refer to the same attributes	Doctor card, Doctor info?	Carlos – layout of comparison page
(Comparison) Remove doctor	PO	Remove the doctor from the list the of comparable doctors and update the screen Things to keep in mind: Using redux to modify this data structure across pages	Doctor card	TBD
(All) Complex terms description	P1	A bubble that provides a description of a highlighted term when a user hovers over the term		Concepta
(Home) Top Searches	P1	Active search bar that updates as the user inputs, requires a string parsing algorithm and looking through the data with similar names		lan
(Home) Popular Specialties	P1	Buttons that jump to filter system with a filter already preset		Concepta
(Filter) More Filters	P1	Research task		Dennis
(Filter) Collapsible Filter	P1	Mostly requires CSS, but may need to include updating the page with which filters are active		Dennis

(Provider List) Change number of cards viewed	P1	Mostly a CSS task, but also relates to a possible sorting feature	Carlos
(Doctor) Ratings/Testimonies	P1	Research task	Rachel, Ian
(Doctor) Additional Information	P1	Research task	Rachel
(Comparison) Additional Rows – languages, years of practice etc.	P1	Research task + Updating the rows to reflect the user being able to add / remove rows Things to keep in mind: Page should remember which rows are active so user can go back and forth from search	Carlos, Dennis
(User profile) Favorites	P2	Similar implementation to Comparison Page	lan
(Provider List) Directly call/email provider	P2	Hyperlinks	Concepta

# **Competitor Analysis**

The "Strengths" and "Weaknesses" focus solely on our competitors; "Opportunities" and "Threats" focus on our product in relation to our competitors.

Strengths	Weaknesses		
Direct Competitors  Personal connection with users Available to book appointments 24/7 Good filtering system Quick, streamlined process guiding users to end goal (information needed) Information through crowd-sourced reviews  Adjacent Competitors Extensive database of users Expansive information on a variety of issues	<ul> <li>Direct Competitors</li> <li>Not clear whether doctor is in network/out of network</li> <li>Doctors can reschedule appointments witho ut notifying users</li> <li>Inefficient search scope for users in rural areas</li> <li>Robust Rating Systems</li> <li>Insufficient information on the provider's profile</li> </ul>		

Quick, streamlined process guiding users to Too much information is presented at end goal (information needed) times, requiring lengthy reads for the user Shallow breakdown of cost estimates Little to no information on provider options **Opportunities Threats** Adding costs estimates for procedures Users' discomfort sharing health Personalizing the experience by information having user's insurance data on the app Obtaining data for the app might be Allowing users to directly compare difficult, considering health is private and many providers people might not trust personal reviews Helping users comprehend complex terms Not having a schedule appointment feature Ensuring accessibility regardless of user's lo like most of our competitors Estimating costs accurately is difficult given cation Enabling crowd sourcing to obtain factors like follow-up care, insurance policy, more information severity of injury, etc. Obtaining accurate cost estimates and

# **Future opportunities**

- Enable booking within the application:
  - Currently Carefree focuses on giving people quick and easy access to healthcare.
  - In future we would like to round off the process by enabling booking within the application to further ease the process, and to be at par with some competitors in that aspect.

Doctor's availability as they change

- Expand the target audience
  - Carefree's primary audience is young adults who are unfamiliar with navigating health services. In future we hope to further develop the app for other audiences who might find the services offered useful.