**Interface**

* Number of symptoms to be checked is likely 3
  + Should create an interface with 1 symptom, 3 symptom, and 5 symptoms for focus groups and usability testing
* Bottom has series of icons for graph, rating, help, settings
* Include Fletcher Allen Health Care at the top of the app

**Features**

* Symptom Ratings:

Overview: User is presented with a static page that reads at the top “How are you doing in each of these areas?” A series of sliders (1-5) are presented underneath with labels identifying each slider (e.g., sleep, pain, thinking about injury, doing things you like to do, feeling on edge, mood). Each slider has anchors on both ends for a “positive” and “negative” end. The sliders are each in a rectangle with a yellow background with the rating in the middle. As the person uses the slider, the background of the rectangle changes color with positive becoming a brighter shade of green and negative becoming brighter shade of red. Inclusion of a smiley face that changes as well.

* + Underlying 0-100 scale
  + Anchored from “Positive” to “Negative”
  + Background color changes from Neon Green to Bright Red as color slides to Negative (tied in units of 20?)
  + Smiley face goes from Happy (positive) to Frowney (negative) as rating slides (tied in units of 20?)
  + Bottom of the slider has a “submit” button, which logs all of the responses
    - Responses should be logged after the slider has been moved and not touched for 5 seconds
  + Submit button used to trigger feedback and log responses -
    - Feedback will be pop up that provides static message linked to feedback (e.g., “Looks like you are in a lot of pain - but that is normal now. Keep track of it to see if it goes down over time”)
* Reminders to make rating
  + Pop up on a random schedule throughout the day
  + Pop up takes you to the symptom log screen
  + Maximum number of reminders is 3 (but should be able to be changed - more frequent at the start)
  + Only log one assessment per day. If the person makes an entry, then no more monitoring for that day.
* Graphs
  + Graph data that has been entered as line/bar graph
  + Provide line/bar graphs for each symptom that is monitored
  + Each bar/dot on the graph should be the color that it was logged
  + Provide overall score which is the average of all the different domains
* Help
  + Tips and advice about how to deal with common issues
  + Will be static screens and potentially premade video clips
* Settings
  + Options to change the frequency of reminders (1-5)
  + Option to change the number of ratings per day (1-3)
  + Option to change demographics that were entered initially
  + Option to change color scheme (?)
  + Option to turn off reminders (should be big for folks that want to opt out early on)
* Demographic log
  + Appears when app is first used and not again
  + Asks for age, gender, race, trauma type (MVA, gunshot, sexual assault, physical assault, other - write in), health insurance carrier
  + Can be changed in the settings tab

**Additional Notes**

Slider to monitor symptoms.

Way to remind individuals to enter symptoms. Should be on random schedule. With up to three reminders per day.

Thank them for making a reminder each time. Need to make it seem as though they are communicating with someone. No one likes to put data into the black hole. (Text message study with effective because text messages communication. App communication is not something that is normative yet.) To that point maybe have a reminder to say that app has been sent to hospital and reviewed. Would be great to actually have this correspond with wind databases checked by a provider.

Transmission of data over secure protocol. Best it could be done immediately. But could be done via email or connection to computer. All apps will have data plans and sell connections. Probably easier to send us email. Over secure connection.

Slider background changes color with increase or decrease in symptoms. Red most severe green least severe.

Face corresponds to slider as well. Happy face least severe :-( most severe. Maybe use emotional identification faces to help with this.

Tracking based on symptom report. Dot reflected color of symptoms. Can superimpose happy faces above each dot

Way to aggregate symptoms across all domains. Can look at domain or average of each domain.

Opening screen asks for demographic information (age, gender, race, trauma type).Goal of this piece is to create a large database of recovery trajectories for different subgroups. Way to aggregate data across different factors.

Also collect insurance information. Must make it clear that insurance information will not be transmitted. The purpose of the insurance pieces to identify potential providers down the line who may be helpful to them.

Potential way to use aggregates to show normative recovery line. Help individual see where they are relative to other people who have been through similar experiences and have similar demographics.

Tone of whole app should be conversational and friendly. Not clinical.

Feedback should be given based on ratings. Just encouraging to start. Real strategies to take place after a few six sets of negative comments. Could be reflective of how the doctor feels about the person – I'm happy you're doing better! Or sounds like this is a tough time for you. To make sure that the supportive comments don't come across as potentially condescending – focus group this.

Will definitely need to do usability study. With about 10 or so individuals. Perhaps 10 in the lab. And then another 10 of actual patients.

Map of providers? Would be ultimate sequence. But could be challenging at this point.

Need to develop a reward system to incentivize recovery data entry. Some type of point system? Or perhaps some type of incentive in the community. Give card to Amazon? Or Walmart? Or city market? Maybe as a raffle? Every five data point entered get to a raffle ticket. And at the end of every month we get out three $10 Amazon gift cards. Person with more tickets get higher chances of winning. Need to figure out sustainable plan for keeping the gift cards in place. The could be worth it for incentives. Don't want to encourage people to do this forever. Although that would be great data collection!

Leader boards? Probably not because of confidentiality issues.

Opportunities for social connections? Or other type of social networking integration? Like Facebook or Twitter? Potentially could be used to incentivize data entry unclear how to do this without breaking confidentiality.