## Workflow

* All product is peer reviewed after being created
* Style guide + documentation needed on most files (for practice optional)

## Proposal (Your team’s hackathon idea in one sentence):

We are addressing health access disparities from underserved populations and communities (i.e. education, transportation, English proficiency, elderly, etc.) by giving a personalized healthcare plan, including healthcare resources and information, based on user inputted demographic information.

## Themes/Optional Questions Addressed:

**Access to care:** How can we make it easier to access care (especially specialists) and provide clear, timely notifications, and reminders along their healthcare journey?

**New patient experience:** As a potential new customer, how can we leverage the mobile app to help new patients better understand what services are available to them?

Optional Questions:

**Cultural Competence in Healthcare:** How can we design a mobile app that helps healthcare providers better understand and respect cultural differences, improving communication and care for diverse patient populations?

**Access to Care for Rural and Remote Communities:** How can we leverage technology to improve healthcare access for rural and remote communities, ensuring timely and specialized care for those in underserved areas? (Focus on SDSU Imperial Valley Connection - Rural/Remote)

## Main Aspects:

* Front end patient side: user inputs their demographic information on a “Personalize my healthcare plan” tab
* Front end hospital side: hospital can see the patients who chose to personalize their health care plan vs didn’t
  + Patient feedback, discuss what they like/dislike about the plan
  + Machine learning - sentiment analysis <https://www.jmir.org/2022/2/e31726/>
* Back end: machine learning aspect - recommending health care plans/resources based on a patient’s demographic information/address/area code]
* Presentation 4min!
  + 520 words

## Extra Aspects:

* Cyber security/privacy:
  + Inform user of the extent of their data use

## Deadlines:

**10/16 Wednesday:** Finishing project front and back end, starting to work on presentation

**10/18 Friday: 9PM:** Upload all files to github to SDSU Hacks

## Task Assignments:

**Lisa:** Looking at dataset from lab and targeting different regions

* Addressing why these issues are relevant
* <https://www.sandiegocounty.gov/content/sdc/hhsa/programs/phs/community_health_statistics/regional-community-data.html>

**Kyla:** Machine learning

* Looking at demographic information on specified region and making suggestions for health care resources to provide

**Toby**: Figma + machine learning

* sentiment analysis based on patient reviews
* Using Figma to create a visual to present
  + “Personalize My Healthcare Plan” tab at the bottom of screen
  + Display recommended health care resources

**Eric:** Putting together the presentation/working on cyber security, etc.

## Resources:

1. Slides Presentation: [Hackathon 2024 Presentation](https://docs.google.com/presentation/d/1dz1zU0ZEDbjq74oDSFIcMm8kwvsdU9P6R_Y3VngmNR8/edit?usp=sharing)
2. Machine Learning Framework - Clustering <https://medium.com/@avicsebooks/ml-part-5-clustering-00d30a977b50>
   1. Can be classify personalizations
      1. Example: people that have stated that they have a family history of cancer will be sorted into a group where “cancer screening” resources will be sent OR get access to the nearest specialists/doctors
3. Judge Criteria

• Quality of the idea

• Innovativeness / Creativity of the idea

• Readiness of the idea to go to market

• Impact of idea on Healthcare

• The demonstration of teamwork/collaboration

• The development and design of the idea

(can include code but not required)

* RICE score