CSCI 3308 Milestone 1

Team Number: 103-2
Team Name: Team = [hip, hip, array];
Team Members: Nagisa Her, Tobi Jacobson, Andrew King, and Sahand Setareh

Application Name: *Nura*Health

Application Description:

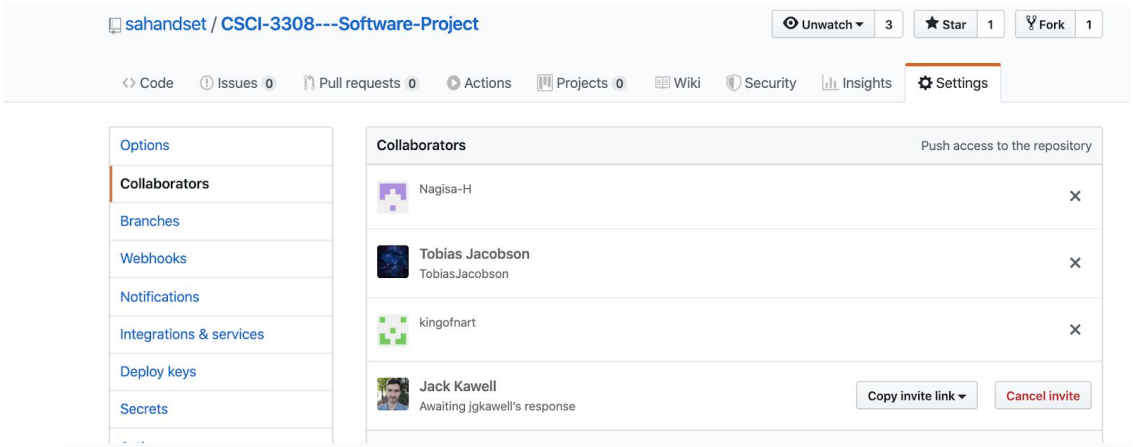
In its simplest form, this application is a web-based application that will provide healthcare centers with an easy way to manage their patients' information as well as allow patients to view their diagnostics and pay for medical bills. The application will be made in a general way that will allow each healthcare center to customize the website to their liking. This will allow healthcare centers to have control over the interface that their patients are using as well as the image the healthcare center wants to present to the public. Another critical part of the application will be its ability to give preliminary diagnostics of symptoms that the patients provide. This will allow patients to take the next steps, whether it be making an appointment or planning a trip to the emergency room. The application will also allow patients to be environmentally aware by paying e-bill statements instead of mailing paper statements.

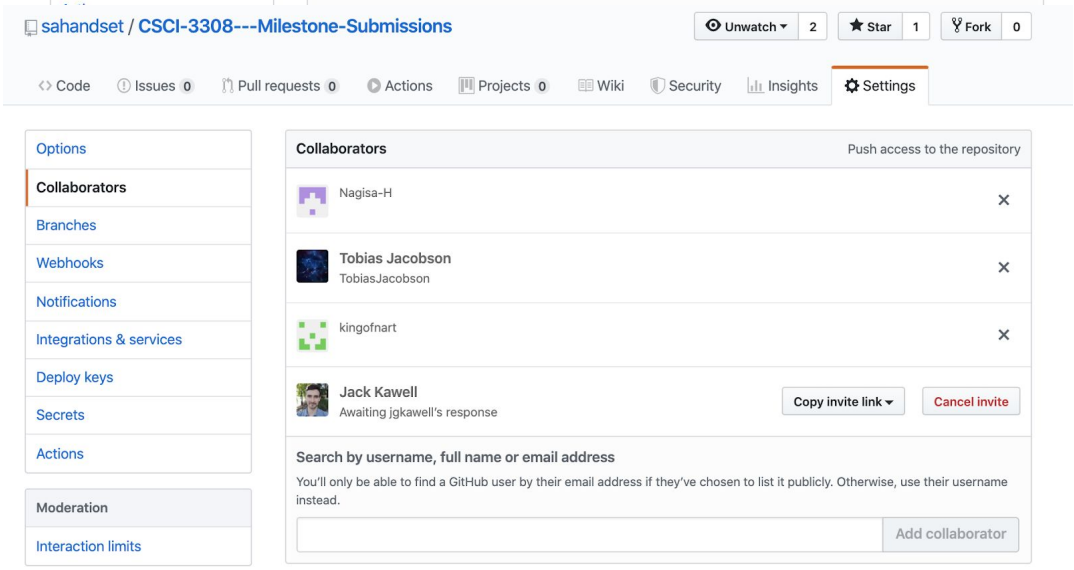
A goal is to also have the application be available for phones so that patients can track their diagnostics and billings on the go. This is ideal for patients that are constantly traveling or do not have a computer readily accessible. Part of the phone application will be the ability to log in using the patient's face. This feature will provide additional security for the patient's medical records. For both phone and web-based applications, the developers will work to ensure that neither application breaches HIPAA guidelines.

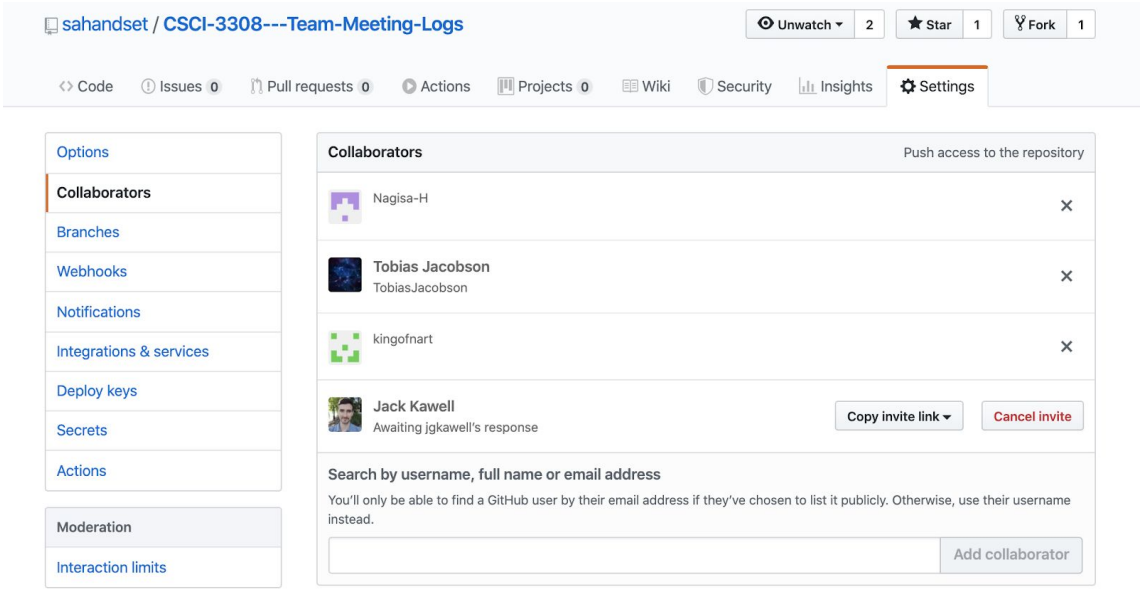
Vision Statement:

To be a front runner of the patient diagnostic systems we heavily emphasize the communication between patient and provider, utilizing the technology of the 21st century.

Version Control:







Development Method:

We will be implementing an Agile/scrum development method. The reason we decided to use an Agile project management rather than Waterfall is because it fits our project better, allowing us to tackle a smaller project and get that implemented and working before adding on to it. Sahand will be our Scrum Master.

Communication Plan:

Using Slack for code-related inquiries, using a text-message group chat for general communication.

Proposed Architecture Plan:

For our front-end, we plan to use ReactJS libraries and technologies as it has extensive community support and documentation, at the small expense of a greater learning curve. We hope to create a seamless and attractive user-interface that is aesthetically pleasing as well as representationally navigable as the providing efficient patient service is our priority. For the backend, we plan to use the Django framework that can integrate facets of our project. The goal is to optimize the functionality between the layers of our project to communicate and interact without flaw. Having our users be able to view their profiles, Lastly, our database technology will be MongoDB, which will be used to store user profiles containing documentation about our users. This documentation encompasses patient medical histories, physical attributes, billing information, insurance information, prescription management, doctor remarks and immunization records, lab testing and results.

Meeting Plan:

The team has agreed to meet once a week for at least two hours on Thursdays from 5:00 PM - 7:00 PM. Meetings will take place in the Gemmill Math library unless otherwise noted and will be in person. If needed, the team is open to having virtual meetings through an online platform if needed as well.