Asthma is a chronic disease of the airways characterized by reversible airway obstruction. Asthma affects 39 million Americans, including 7.1 million children. Allergy sufferers by estimation number at approximately 50 million Americans. Those numbers only continue to rise each year. Asthmatics, from children through the elderly, have shown a strong desire to self-manage their disease. To assist with this self-management, Asthma Action Plans (AAP) have been developed. However, currently for an individualized AAP, asthmatics either have to memorize it or carry the paper around with them.

Allergy sufferers can suffer either seasonal or year round and symptoms depend on the allergen and the amount of exposure. The prevailing factor in all studies was one respiratory tract, one disease.

The use of mobile phones and apps has exploded over the last few decades. In a 2014, Social Media Revolution video, a statistic was displayed stating that more people own cell phones than a toothbrush.

METHOD

The application will be created and constructed from idea through final build of the app ready for beta testing. Once the initial sketches are completed, wireframing will occur using the service, balsamiq.com. Prototype testing will occur simultaneously with database building. The database will be built on a cloud based service through Google® called Firebase.

Through a thorough literature review, asthma apps that are currently on the market are lacking a least one significant evidenced-based education aspect. Likewise, the asthma action plan is not customizable for each individual. In regards to the asthma, this is how the app will set itself apart from the competition.

FUTURE RESEARCH

The app will be created through the project and then released for beta testing. Once beta testing is completed, the app will be released for general download and a social marketing campaign will be implemented to promote the positive aspects of the app.

REFERENCES


