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Methodology

 The research question I will be answering is as follows: How can I create an app that will organize all important information belonging to a person with dementia into one location that is easy to manage while incorporating fun, memory-based games? I hypothesize that if I learn to use OutSystems software to develop an app, then I will be able to help many people affected by dementia nationwide to better organize their personal and medical information and work towards improving their memory skills. The engineering goals I have are to be able to manufacture a prototype of this app. The prototype will be on the computer software, not yet ready for mobile application. By engineering the app, I will be able to organize important information of patients with dementia, such as emergency contacts, a photo album of family and friends, and memory-based games. The expected outcome is a functional app in OutSystems software that is able to have personal information input and to employ the use of memory skill games.

 The procedure to developing the app is as follows:

1. Download the OutSystems software and learn how to use the software to create the app of my desire.
2. Make an outline as to what needs to be included in the app, its function, and how it will be organized within the app for easy manipulation.
3. Start coding the app using OutSystems software, making sure the app includes emergency patient information, emergency contacts, medical contacts, a photo album of friends and family members where personal photos can be uploaded, and memory games to help improve memory skills of the patient.
4. Make a fake profile using the app to test the usability of the software and to notice any bugs that need to be worked out.
5. Go back into the programming and make improvements to the software, making sure the program is easy to use and without any bugs.
6. Repeat steps four and five until the app is fully functional and ready to be made mobile.

The risk of creating this app is minimal. There will be no physical testing procedure of any kind, and the only human interaction the app will have is with me. The low risk factor leads to minimal safety precautions as well. While making the app, I should be careful not to sit in front of the computer for too long so as to avoid eye damage.