

**App Idea:**

This application is going to be used as a research tool that collects data from different participants with respect to obstacle avoidance. The main idea is that users will click a link in a survey that will take them to a new page where they will be asked to enter their participant ID number, after entering the number they will begin the obstacle avoidance task. The data being collected from the participants will be the amount of time it takes to complete the task, the task will be simply moving the computer's cursor from the start location to the destination as quickly as possible. As the task is completed it will get more complicated with the gap the users will have to move the cursor through changing location once the cursor hits a specific location on the screen. If the user is to make contact with one of the obstacles, the frame in which the task is being completed will show this collision in one of a few ways, such as freezing the screen, flashing red or any other simple way of showing that a collision has occurred. This app will enable our sponsor to view the effects of age on reaction time and obstacle avoidance, users will be given a participant ID which will directly relate them to the fields they have filled out in the survey allowing our sponsor to see how long it took specific participants to complete the tasks and how old these participants are.

**Users:**

Users of this application will have a wide variety of ages and technological experience. Each user will be a participant in this study, and will be in a way a test subject for this psychological study. As I stated each participant will be a different person with a wide range of ages, as the study requires this to show the correlation between age and obstacle avoidance. The sponsor is looking for a direct correlation between age and speed of completing the task.

User	Goals
Participant in study	Show correlation of age and task completion
Participant in study	Show correlation of age and speed of task completion
Participant in study	Show correlation of age and average number of collisions during task completion
Young participant	Expectation is that a younger participant will be able to complete the task quicker

	than that of an older participant with less average collisions.
Older participant	The expectation is that as the age of the participant increases so will the number of collisions on average during task completion, and the average amount of time taken to complete the task will increase as well.