Project Installment 2: Family Planning

Our specific target group is someone with moderate dementia (alzheimer's) that has the most common form of memory loss (short or long-term memory loss), and is limited in their abilities but do not require constant assistance and supervision. The goal of our self-driving car interface is to improve the safety of people with dementia that are currently driving and allow sufferers that are no long able to drive the ability to become more independent. We expect our target user will be someone approximately 3 years after diagnosis since one study revealed that 50% of people 3 years after diagnosis no longer drive (Driving and Dementia: A Review of the Literature), but they are still living somewhat independently.

1. Data What's: Things you need to find out from your data (as in Figure C.3)

Category	Personal Interview & Research	Academic Article	Data Found Online	More Data Needed
The current state of driving with dementia				
Can people with dementia effectively drive cars by themselves?			Check	
How many people keep driving after being diagnosed dementia?			Check	
What are common problems for people with dementia completing daily tasks?		Check	Check	
What are the common problems			Check	

people with dementia have when driving?				
Information about self-driving technology				
What functionality of self-driving cars can best help those with dementia?			Check	Check
What is the most efficient way to display data for those with memory issues?			Check	Check
Attributes of people with dementia				
Does dementia primarily create long-term or short-term memory issues?		Check	Check	
What is the most common form of dementia?			Check	
Is there existing software designed for people with dementia?			Check	Check
How frequently do people with dementia forget something?		Check	Check	Check

How long do people with dementia remember something?			Check	
How do people with memory issues or dementia learn differently from mainstreamers?			Check	

2. Data Where's: Sources that you hope to read to find those things out (as in Figure C.4)

Category	Description and link	Date	Author	Source #	Incorp. Into Personas?
Driving with Dementia	Driving and Dementia: A Review of the Literature https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3292210/	2004	Brown LB, Ott BR	01	
	Safe Driving for a Lifetime https://www.thehartford.com/sites/the_hartford/files/cmme-crossroads.pdf	2015	The Hartford Financial Services Group, Inc.	02	
	Dementia and driving: screening, assessment, and advice http://www.sciencedirect.com.ezproxy.proxy.library.oregonstate.edu/science/article/pii/S0140673605662149	1996	D O'Neill	03	

Information about self-driving technology	In-vehicle technology for self-driving cars: Advantages and challenges for aging drivers https://dspace.mit.edu/openaccess-disseminate/1721.1/105917	2014	J. Yang	04	
	How UI/UX Design Will Map The Future Of Self-Driving Cars https://www.fastcodesign.com/3052738/how-ui-ux-design-will-map-the-future-of-self-driving-cars	2015	John Brownlee	05	
	Waymo, the google self-driving project https://waymo.com/tech/	2017	Google Inc.	06	
	Here's Your First Look at Tesla's New Autopilot and UI https://www.wired.com/2016/09/tesla-software-version-8-autopilot-user-interface/	2016	Jack Stewart	07	
Attributes of people with dementia	What Is Dementia? https://www.alz.org/what-is-dementia.asp	2017	Alzheimers Association	08	
	The Critical Importance of Assessing Attention in Older Adults with Dementia https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3571625/	Nov. 2012	Kolanowski et al.	09	

	Dementia Signs and Symptoms https://www.asha.org/PRPSpecificTopic.aspx?folderid=8589935289&section=Signs_and_Symptoms	N/A	American Speech-Language-Hearing-Association	10	
	World Alzheimer Report 2012 https://www.alz.org/documents_custom/world_report_2012_final.pdf/	2012	Nicole L Batsch Mary S Mittelman	11	

3. Data When's (Action Plan for all things data): A schedule of the data planning/collection/organization parts of Family planning and Conception/gestation. With real dates so that you can make these deadlines.

Phase	Activity	When Completed	Related Project Milestones
Family Planning	Distribute specific work to core team members. Search OSU library for peer-reviewed journals about dementia and self-driving cars. Find existing examples of software that has been designed for people with dementia. If possible, interview someone that is currently living with dementia	October 20th	The team has been assembled to carry out the construction of the persona. The professor has signed off on the plan and verified that it is both on task and achievable. The plan for implementation of the persona is complete and the team can move on to more in-depth data gathering and organization.

Conception and Gestation	Integrate all the information found by the core team members and pick up the most relevant data. Create a potential persona of someone with dementia based on the data.	October 31st	Enough data points have been collected to assume a reliable average and base all further decisions. Oct. 20th Assumptions and data have been meshed together into a complete pool of resources to pick from. These data pools have been organized into groupings that would indicate personality traits from which the team constructs a persona. Any majorly outlying data points are discarded to clean the data. Oct. 25th Goals are set for completion of the personas to be met later in the lifecycle process. Oct. 31st