

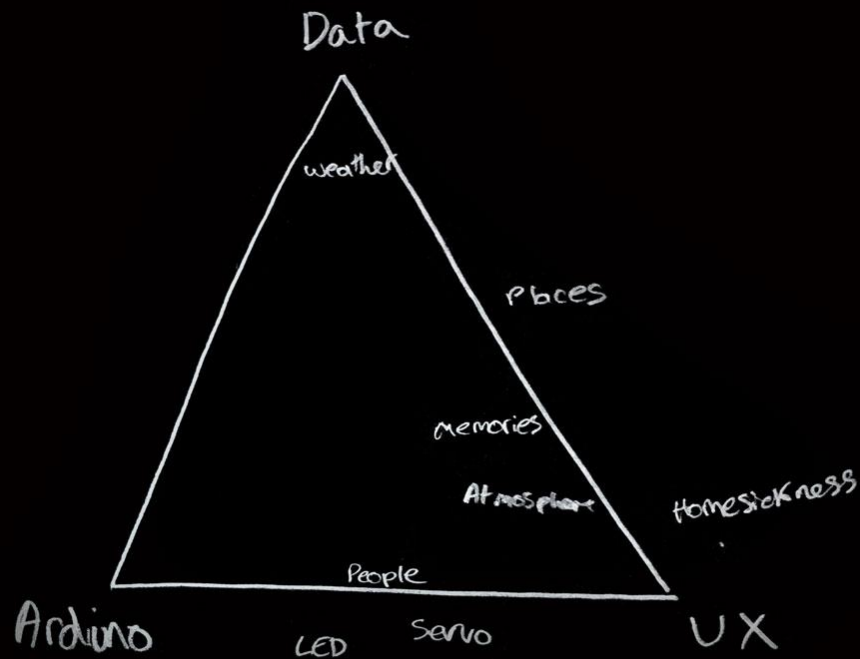
SHADOW LANTERN

Improving the user experience of
light therapy, for people with
Dementia.

ZOE POINTON



THEORY



LIGHT THERAPY

30 minutes of intense light exposure a day.

Administered close to the face.

Seasonal Affective Disorder (SAD),
Depression, Jet Lag, Sleep Disorders,
Dementia.



DEMENTIA

850,000 people in the UK have Dementia.

Most people with diagnosed Dementia are over the age of 65.

30% of people with Dementia suffer with Depression as a result.

One side effect of Dementia is Insomnia.

Light Therapy is an alternative to sleeping pills.

ELDERLY PEOPLE AND TECHNOLOGY

The amount of over 65 year old smartphone owners quadrupled over 3 years (2012 to 2016).

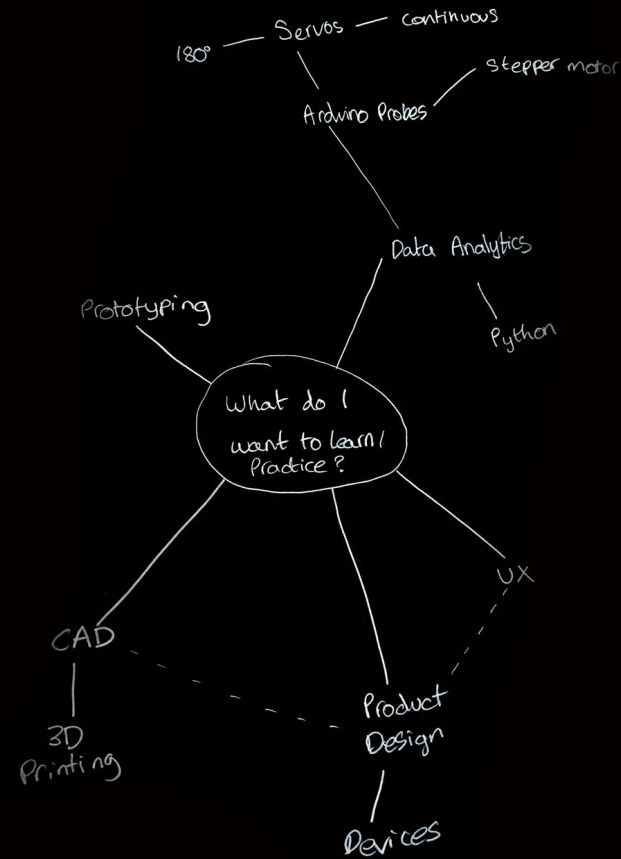
18% of over 65 year olds owned a smartphone, in 2016.

During 2017 the number of over 75 year olds on Facebook doubled.

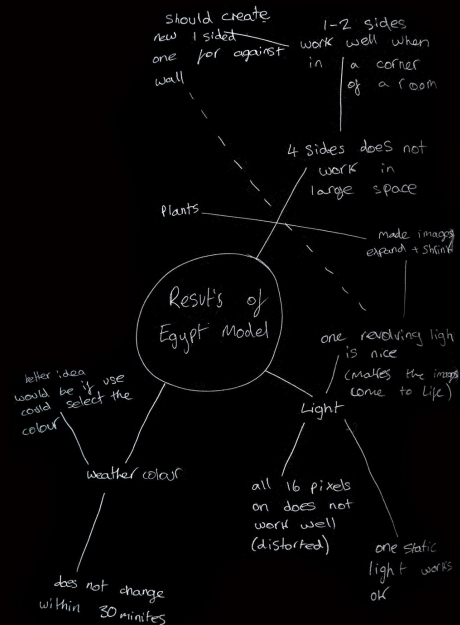
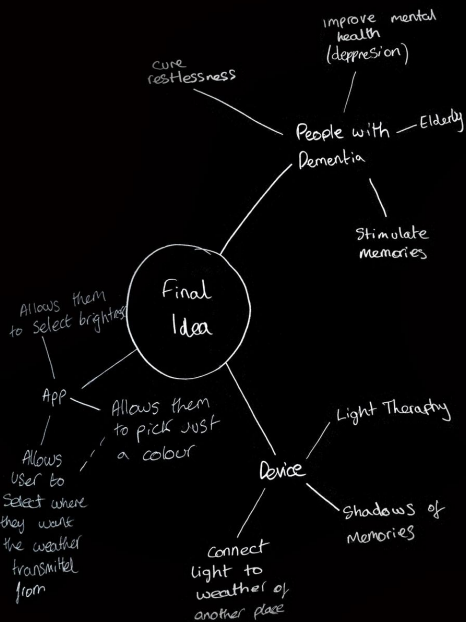
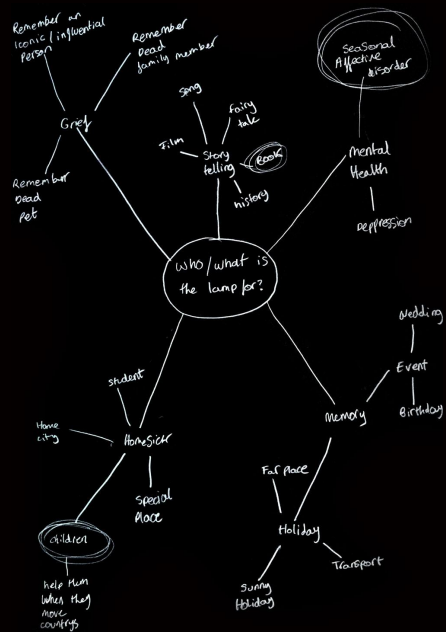
By 2050, 22% of America's population will be made up of over 65 year olds.

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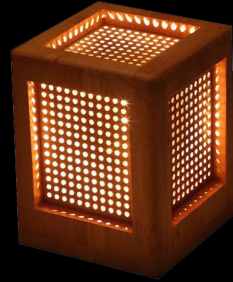
RESEARCH



MIND MAPPING



SHADOW DESIGN



Shadow projection, shadow box, paper lantern, shadow puppets.

TECHNOLOGY

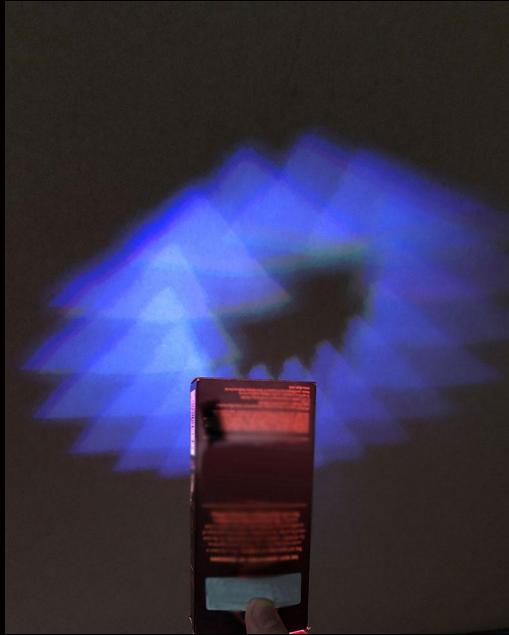
Arduino MKR1000



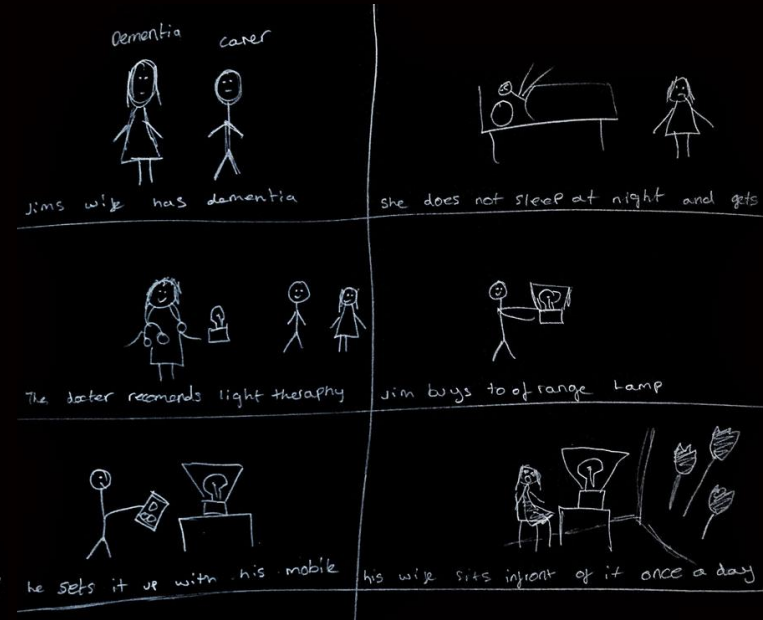
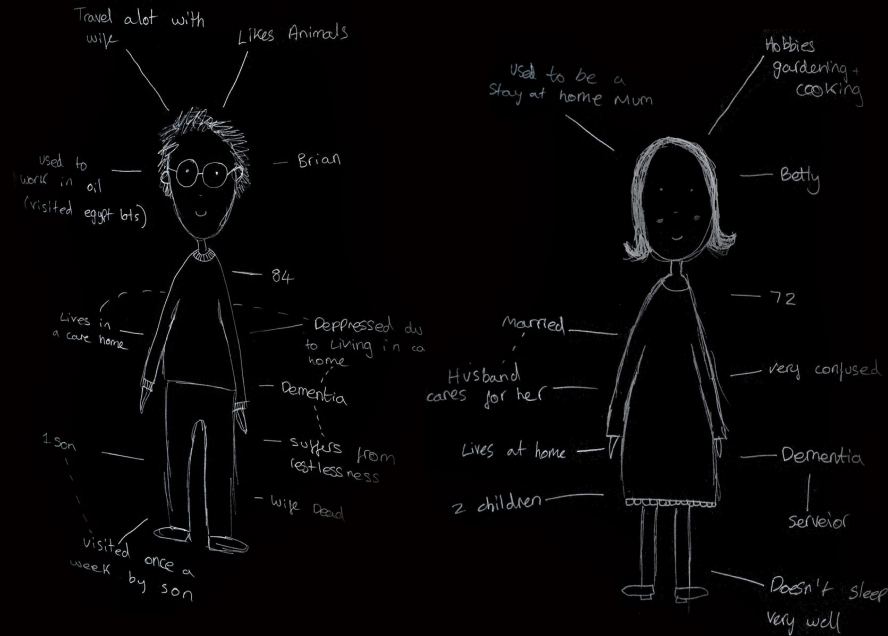
NeoPixel Ring



LOFI PROTOTYPES



PERSONAS AND USER STORIES



ELDERLY FRIENDLY UIs

Use large fonts.

Keep design minimal.

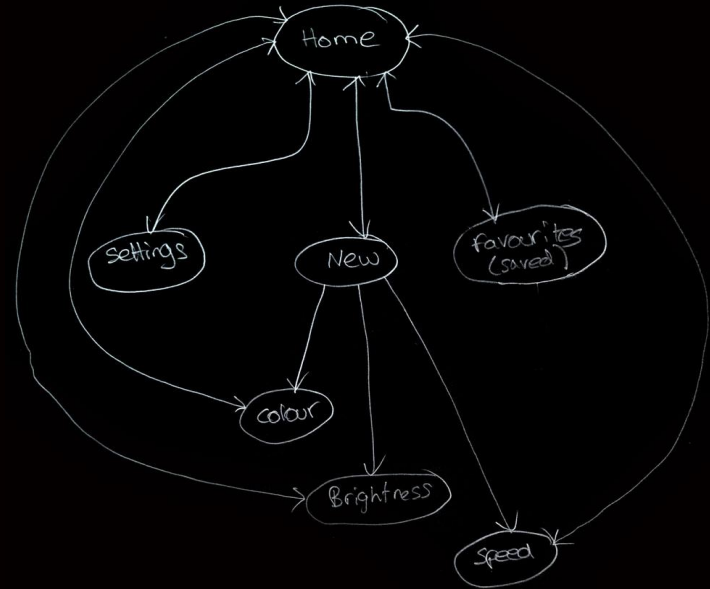
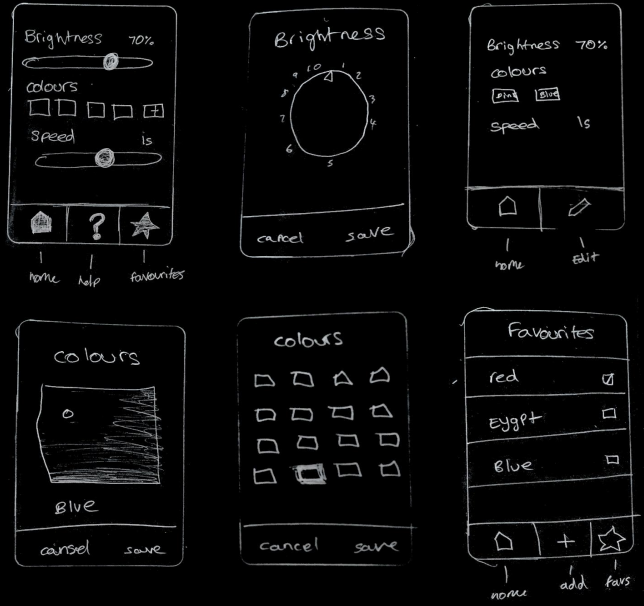
Only provide necessary features.

Keep navigation simple and easy to use.

Create and prioritise shortcuts.



SKETCHES AND USER FLOW



PRACTISE



DEMONSTRATION

Link to video demonstration <https://vimeo.com/304253480>

Link to app prototype <https://marvelapp.com/1bd4c8d6>