

DESIGN THINKING

Empathise



Define



Ideate



Prototype



Test



The background is a light blue gradient with a subtle sunburst pattern. Water droplets of various sizes are scattered around the edges, with a higher concentration in the top-left and bottom-right corners.

EMPATHIZE

WHAT WE DO

- We identify and understand the problem based on our topic
 - We used interview method to collect information
 - We interviewed some UTM students
 - Questions
 - Have you ever use any navigation system before?
 - Do you find it difficult to drive while seeing your phone to navigate?
 - Have you ever experienced a situation where you nearly involved in an accident while navigating?
 - Do you often get dazzled when driving, especially during night time?
- Can you share your experiences?

The background is a light blue gradient with several realistic water droplets of various sizes scattered around the edges. The word "DEFINE" is centered in a bold, black, sans-serif font.

DEFINE

WHAT WE GET FROM OUR OBSERVATION

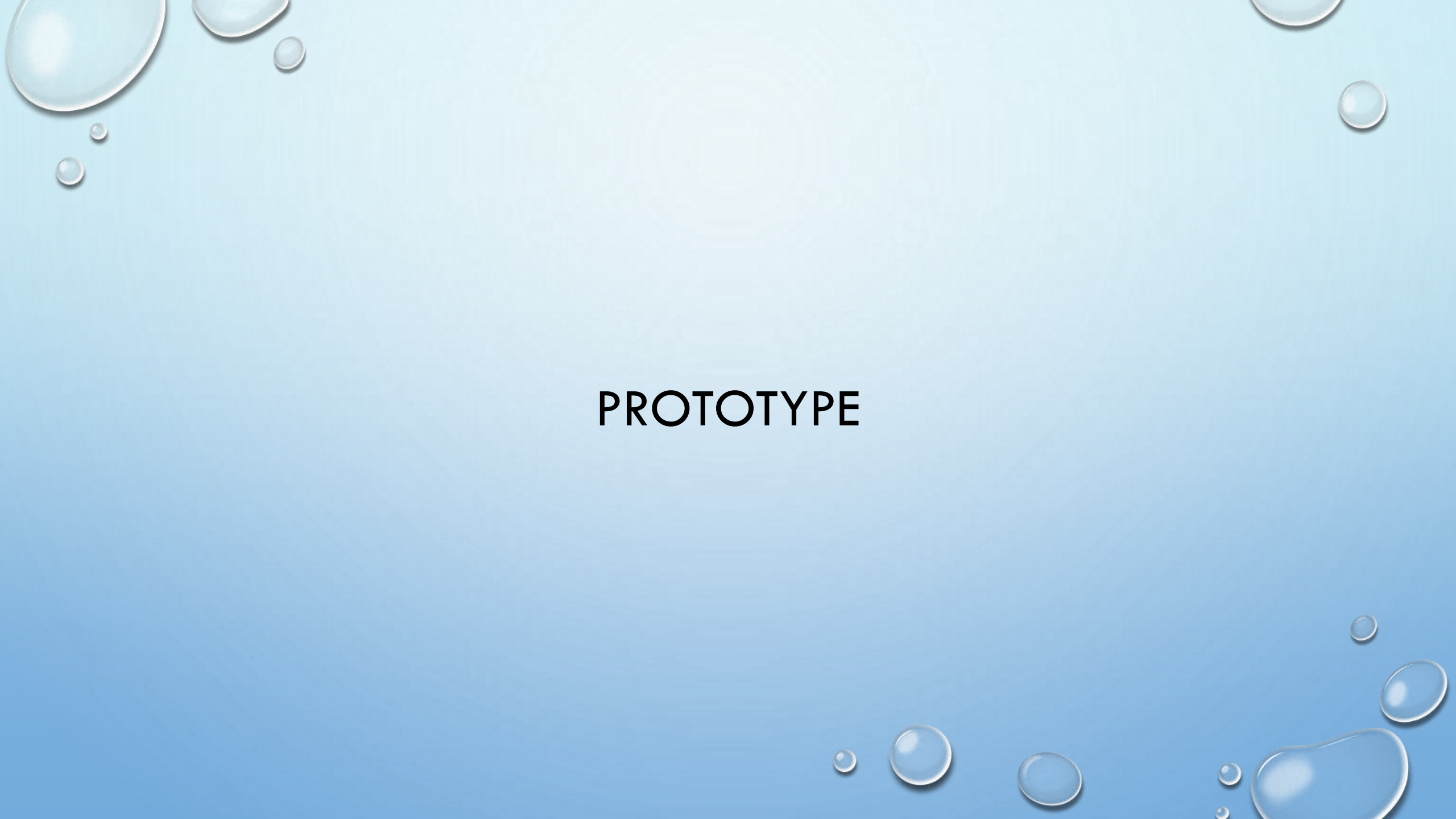
- Unable to concentrate when using navigation app while driving.
- No place to put the phone when navigating.
- Get dazzled easily by the high beam headlight.
- New routes are not updated.

The background is a light blue gradient with several realistic water droplets of various sizes scattered around the edges. The word "IDEATE" is centered in the middle of the image.

IDEATE

IDEATE

- Ideas were generated through brainstorming
- Creating lists of solutions from our initial ideas after discussion
- For example:
 - A device that reduce light intensity with photochromic lens and light sensor
 - A device that help users stay focused when using navigating apps
 - A device which is portable
 - A device which is implemented with new AI technology to recognize new routes
- In the end, we decided to make smart spectacles

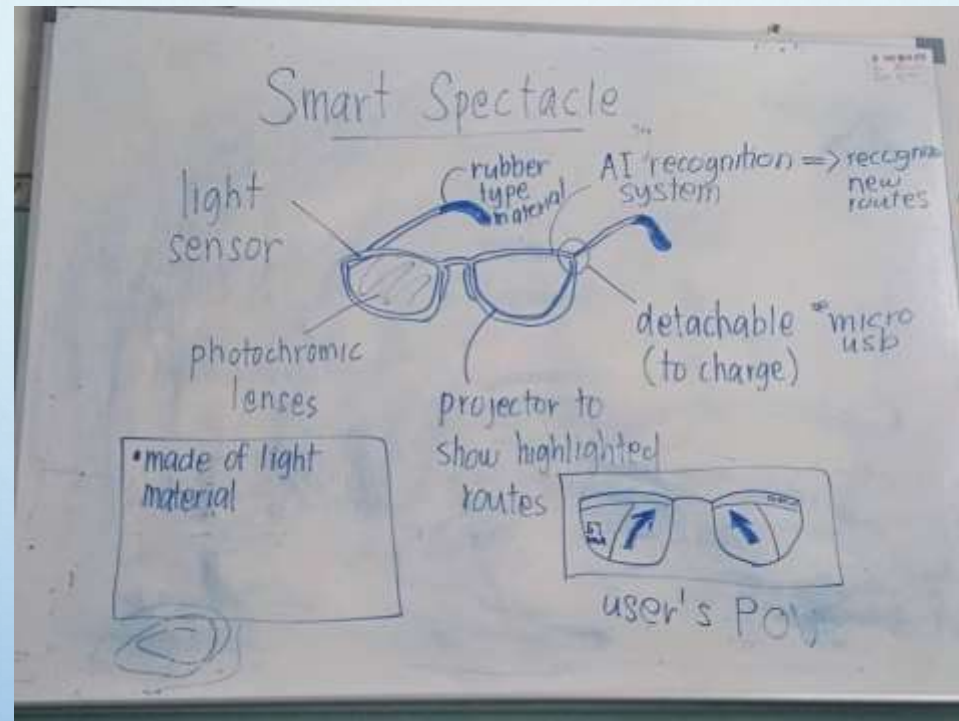
The background is a light blue gradient with several realistic water droplets of various sizes scattered around the edges. The droplets have highlights and shadows, giving them a three-dimensional appearance. The word "PROTOTYPE" is centered in the middle of the image.

PROTOTYPE

PROTOTYPE

- A PROCESS OF CREATING THE MODEL OF OUR IDEA
- TO CREATE THE FIRST VIEW OF OUR MODEL
- CREATED SMART SPECTACLES BY USING RECYCLABLE PRODUCT
- TO MAKE SURE THAT OUR CLIENT ABLE TO SEE MODEL OF OUR IDEA

SMART SPECTACLE MODEL



TEST

TEST

- WE INVITED OUR CLIENT TO TEST AND SEE OUR 1ST PROTOTYPE OF SMART SPECTACLES
- TO MAKE SURE THAT OUR CLIENT ARE SATISFY, THE MODEL OF IDEA THUS FOLLOW THE CLIENT'S NEEDS.
- OVERALL, CLIENT ARE SATISFIED.
- HOWEVER, THE FEATURES OF THE SMART SPECTACLES ARE HARD TO BE USE BY BEGINNERS
- USER TRAINING SESSION SHOULD BE HELD IN THE UPCOMING PHASE SO THAT USER KNOWS HOW TO USE THE DEVICE.

TEST

- CLIENTS DEMAND
 - A LIFE-SAVING BATTERY-FOR A USER THAT OFTEN TRAVEL FAR.
 - A COMFORTABLE AND ADJUSTABLE SMART SPECTACLES.

VIDEO LINK

- [HTTPS://WWW.YOUTUBE.COM/WATCH?V=8WDZ_KWKND0](https://www.youtube.com/watch?v=8WDZ_KWKND0)