

## SDP1 Show and Tell

Iulia Purza
Mary McDonald
Olivia Albin
Chantal Vaillancourt

#### **Table of Contents**



1

PROJECT TOPIC

2

AIMS & OBJECTIVES

3

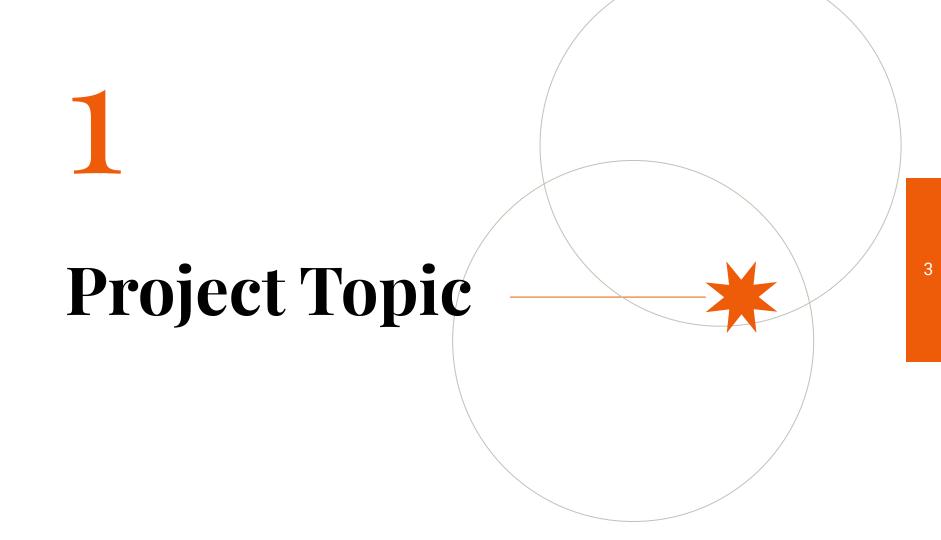
PROTOTYPE PRODUCTION

4

PROTOTYPE AS A HAPTIC TOOL



PROTOTYPE PHOTOS



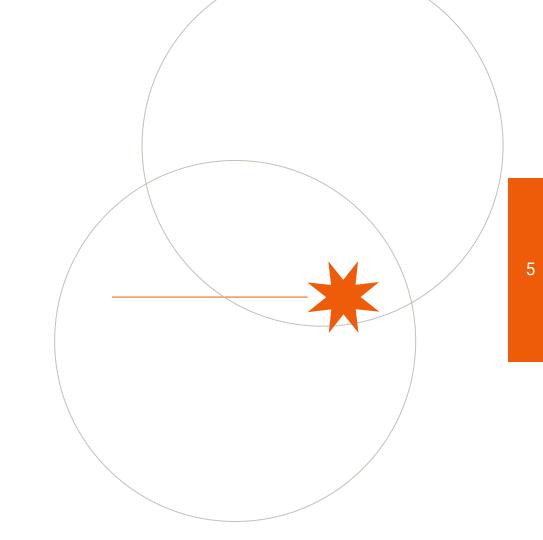
#### **Project Topic**

- To utilize accessible and multisensorial technology to engage the Brantford community with local businesses
- Specifically, to use QR codes to bring awareness and increase foot traffic to local businesses while engaging people's visual, auditory, and haptic senses



### 2

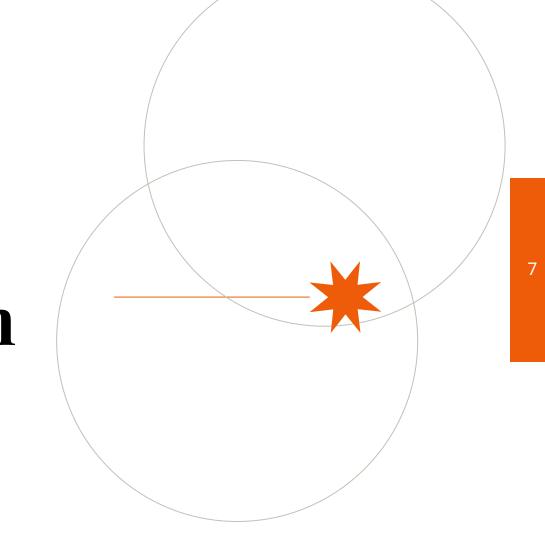
## Aims & Objectives



#### Aims & Objectives

- To increase engagement with local businesses in Brantford
- To bring awareness to the offerings of various Brantford businesses
- To create a system that achieves the above objectives whilst being entertaining, rewarding, and accessible for the community





#### The Design

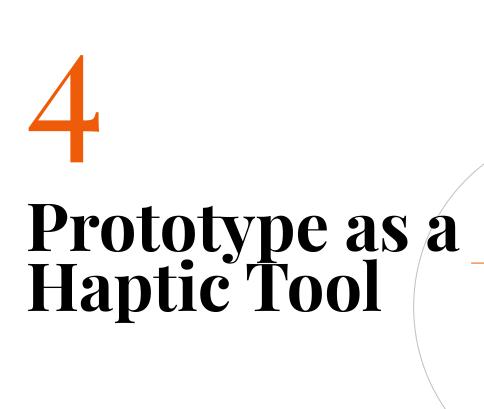
- 3D printed QR codes on the outside of businesses to be scanned
  - More info on the business.
  - Leads to a page on the business's website
- QR code stickers hidden around the city to be found and redeemed at businesses
  - Colour coded with icons indicating the type of business (i.e. food, retail)
  - When scanned and sent to website, an audio clip will play that is indicative of the type of business the coupon is for (auditory engagement)
- This design brings more people to local businesses and creates a memorable experience for the community

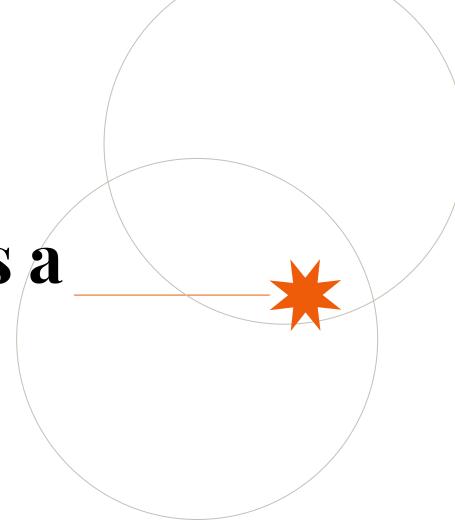
#### **Prototype Production**

After discussions of what the prototype would look like, we split the roles of creating to:

- 1. a 3D mockup of the physical QR code using Tinkercad
  - Discussed how to make visible at night and decided on using little overhead lights to make it scannable
- 2. a coupon QR code sticker mockup using Adobe Illustrator
- 3. a virtual mockup of what the destination web page would look like after scanning a QR code







#### Sight + Sound

#### Visual:

- QR code
- Coloured indicator corresponds to type of code
- High contrast
- Light

#### **Auditory:**

Sound when scanned





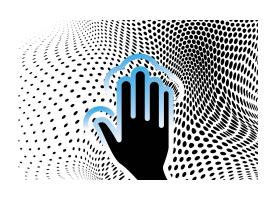
#### **Touch** + **Motion**

#### Haptic:

- 3D QR codes
- 3D bubble stickers
- Vibration when scanned (along with sound)

#### **Kinaesthetic:**

Motion to bring phone up to scan QR code

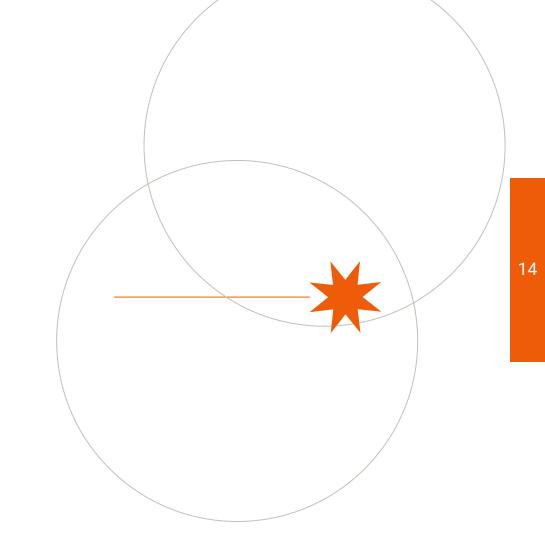


#### Accessibility

- High-contrast colours
- Light
- Sound & vibration indicators
- 3D shapes



# 5 Prototype Photos



#### **Digital Prototype**







#### 3D Prototype - Tinkercad

**Top view** 



**Front view** 



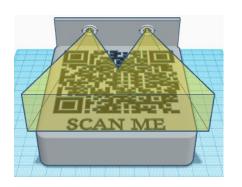
**Back view** 

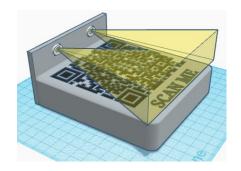


**Side view** 



#### **View with lights**





#### **Digital Prototype – Sicker Coupons**



Unique colour + icon for **retail** coupon



Unique colour + icon for **food** coupon

## Thank you! Any Questions?

#### 19

#### References

Icons made by Kiranshastry from Flaticon www.flaticon.com