

#### Group C2.3

# **Mouse-ify**



"Solution for people with difficulties to learn how to use a mouse. A need exists to design and program a versatile, attention-grabbing, mouse training game to teach people of all backgrounds computer knowledge, including those with mental and physical disabilities. These skills learned from the mouse game are to be later applied to their everyday tasks and internet activities using personalizable mouse training web applications."

**Problem Statement** 

1. Teach fundamental mouse skills : left click, right click, double-clicking, scrolling, dragging, text selection

2. Not childish: Age appropriate

3. Designed for people who have little to no mouse skills

4. Simple content and easy to understand

### Customer Needs

.....



## color

#### More Needs Identified :

Can retain the user's attention span for a long duration Different levels of difficulties Accommodate with Audio Software to install Accommodate for different attention spans

7. Help users gain more independence with their mouse skills

#### 5. Accomdate visually in writing size and

#### 6. Has a visual demonstration of instructions

# **Target Specifications**

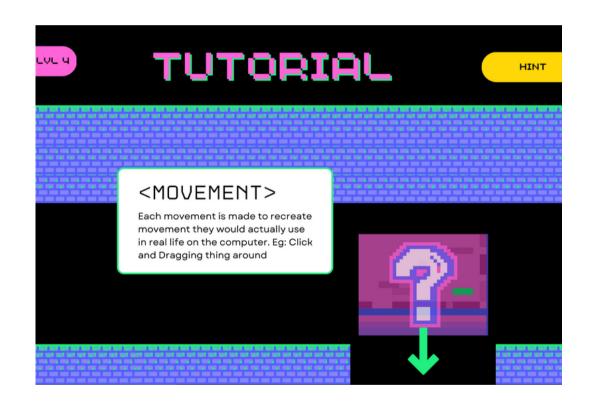
Needs	Metric / criteria	Specification	unit
Teach fundamental mouse skills ( left click, right click, scroll, dragging, text selections and combination of movements)	Multiple functions	Yes	Binary (Yes/No)
	Age appropriate	Yes	Binary (Yes/No)
Not childish : Age appropriate	Age range	20-70	Years
Can retain user's attention span for a long duration	retention rate		time
	Visual Demonstration	Yes	Binary (Yes/No)
Has a visual demonstration of instructions	Caption for videos	Yes	Binary (Yes/No)
Designed for people who have little to no mouse skills	For beginners	Yes	Binary (Yes/No)
Different levels of difficulties	Levels	>= 6	Levels
Accommodate with Audio	Audio	Yes/No Binary	

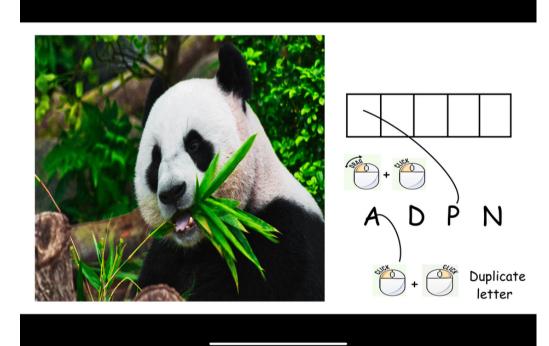


Needs	Metric / criteria	Specification	unit
A software to install	software	No	Binary (Yes/No)
Accommodate visually the users writing size(font)	font size	30	pts
	Sentence length < 75		characters
Simple content and easy to understand	Customer survey 1-5		scale
	Task Success Rate (number of attempts / total number of attempts)( shows the percentage of participants that successfully complete)	1-10	percent
Accommodate visually the users in term of color, and	colors contrast (WebAIM's color contrast checker)	4:5:1 normal text	ratio
contrast	brightness		levels
Help users gain more independence with their mouse skills	mouse sensitivity	800 +/- (500)	DPI
Accommodate for different attention spans	Maximum duration	15 - 30 mins	Minutes (mins)

# **Solution Options**

Top 3 concepts

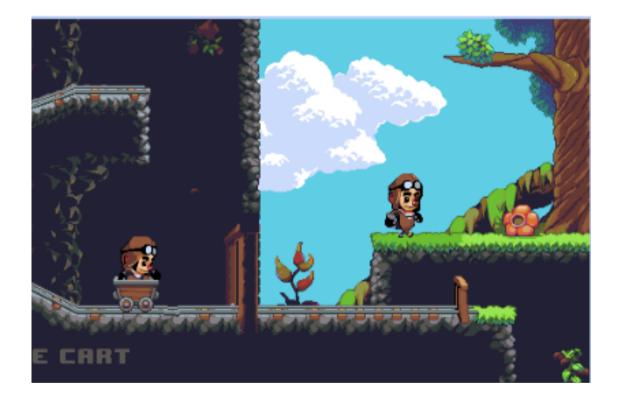




#### **Tunnel game**

#### **Puzzle-based Game**





#### Minecart Escape Game

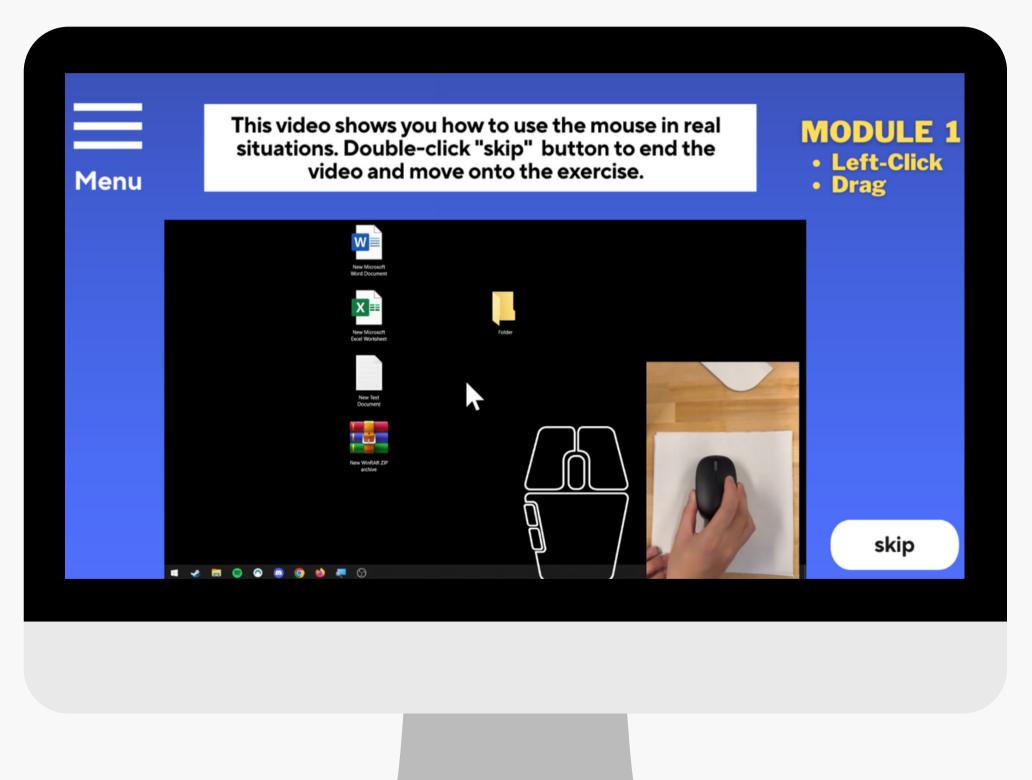
### "Puzzle-Based Mouse Learning Game with Adjustable Settings to Improve Functionality & Keep User Engaged while Familiarizing with Basic Mouse Skills"





# **Final Concept**

Game-Based Concept that teaches **PUZZLE** Game-Based Concept that teach Basic Mouse Functions Through Engaging Puzzle Solving and Word Formation





- 01 Module + Exercices for each level.
- **02** Functionality applied through "Puzzle Solving and Word Formation".
- 03 Customizable Settings for a Comfortable Learning Experience.
- **04** Keeps User **Engaged** while Familiarizing with Basic Mouse Skills.
- 05 Progressive puzzle-solving levels with increasing difficulty.
- 06 Automatic transition to the lesson after 8 sec if user cannot use the mouse at all.

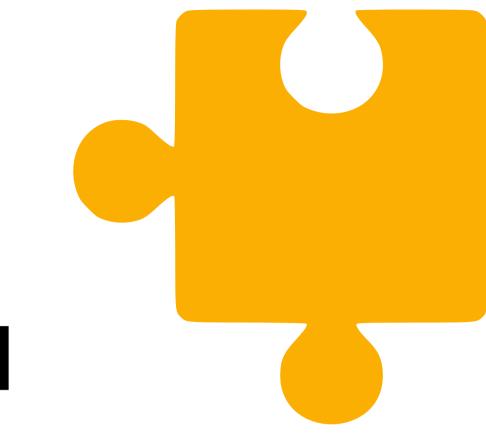
### SubSections

### Modules

### Puzzle

 Includes video [filmed ourselves] + caption + skip options + exercices

- 4 Levels total
  Level 1 & 2 have 8
  pieces
  Level 3 has 12 pieces
  Level 4 has 20 pieces
- Functions include <u>drag</u>
  <u>+ drop</u> puzzle pieces
  and letter to their
  appropriate places



### Word

The last level of this section of the game also has a simulation of the copy-paste function.

# Business Model and Economics

#### **Freemium Model**

business model.

01

02 business.

Well suited to commercialize our product because our application is a mouse skills application. We think it's better to let the user try a free version first, for instance the first level only, before paying to access more advanced levels. Buying our product after trying out the free version is more ethical considering our product which is why we decided to go with the freemium

We might not be adding new content in the future so a traditional subscription wouldn't be ideal. On the other hand, selling our products directly to customers might affect our sales negatively as the customers might be hesitant to buy a product they are not sure will meet their needs, which can be very risky for us as a

### Business & Model and Economics

KEY PARTNERS	KEY ACTIVITIES	VALUE PRO	POSITIONS	RELATIONSHIPS	CUSTOMER SI
	Platform development and maintenance	Teach fun mouse		Providing customer support Regular updates and	Complete beginn a mous
Third Party application	Marketing and advertising Converting free users to	Engaging and easy to use		maintenance	Individuals w physical disa
(construct 3)	premium users	Clear instru	ctions and		Individuals wh learn or impr
Online marketplaces		tutorial			mouse s
Social media		Free version	to premium		
	KEY RESOURCES	vers		CHANNELS	
	Application developers	Brain tea	iser and	Digital channels	
	Digital Platform	interesting content		Opling marketplaces	
	Sales and marketing personnel	Aestheticall	y pleasing	Online marketplaces	
COST STRUCTURE				REVENUE STREAM	15
Product development Maintenance Marketing and sales		g and sales	Selling the premium version of the application		
SOCIAL AND ENVIRONMENTAL COST				SOCIAL AND ENVIRONMEN	TAL BENEFITS
Cost of Reducing energy consum	ption Can be used on multiple operating syster		Reduce	energy consumption More job opp	ortunities for individ hysical disabilities

#### SEGMENTS

- nners in using use
- who have sabilities
- vho want to prove their skills

#### Assumption

- Investment of 100,000\$ with 0% shares
- 7000 premium users
- 5048 break-even
- 60\$ cost premium subscription (yearly)
- 20\$/hr (37.5 hour work week)
  + 6 full time employee 1st
  year

# Trials and Tribulations

#### **Other challenges**

Time Management:

Delays in the development process can be caused by technical issues. They also impacted our timeline and created delays.

#### **Technical Challenges**

Game logic and design: Using Construct 3 must ensure that the game's logic and design are wellconstructed and aligned with the game's intended purpose.

Bug and glitch fixing: Take care to identify and resolve any bugs or glitches that affect the game's functionality, ensuring that the game runs smoothly and delivers an optimal user experience.

Testing and quality assurance: Perform rigorous testing and quality assurance checks to identify any issues and ensure that the game meets users' expectations.

User feedback: Didn't have access to the users so it was harder to test

**"Test early and often: Testing** early in the development process can help catch bugs and glitches before they become major issues. **Continuously testing throughout"** 

Lesson #1

# Mouse-ify: What's Next?

- Explore additional features and functionality to enhance the user experience
- Add new level and features
- Incorporate user feedback into future updates and releases
- Plan for scalability and future growth, including potential partnerships and collaborations
- Continuously test and optimize the app to improve performance and functionality
- Explore emerging technologies and trends to stay ahead of the competition and remain relevant in a rapidly evolving market.

