

## Features to be Tested

### Completed in MVP

- Clear and simple language
- Clean and minimalist design since there will be diagrams etc
- Responsiveness
- List/ show the five (5) stages of the design thinking process: Empathize, Define, Ideate, Prototype, Test
- For the five (5) design thinking stages provide
  - Concise one-line description of what the Define stage accomplishes
  - Brief description explaining the role of the Define stage in the overall process, activities undertaken, techniques used and any deliverables produced.
  - List techniques used
  - Provide an example of a technique/ stage deliverable from successfully completed school project.
- Project examples
- Accessibility features, including image optimisation, image captions and alt tags
- Search Engine Optimization

### Optional Features

- Form for Feedback or contact information
- Exercises for users

## A Requirements Testing

Test Date: March 11<sup>th</sup> 2024

Test Location: Raven Hall 212

Users: TBD

### Test Script

1. Each user will access the site at <https://dgl409.ichandass.imgd.ca/dtSimplified/> using their personal computer or lab computer
2. The user will navigate to various pages on the site, reviewing various elements
3. The user will complete the following [checklist](#), including any feedback on the form
4. The developer will collate data and apply feedback to site revision

### Feedback

All responses will not be shown, instead a summary of feedback is provided. All responses can be accessed [here](#).

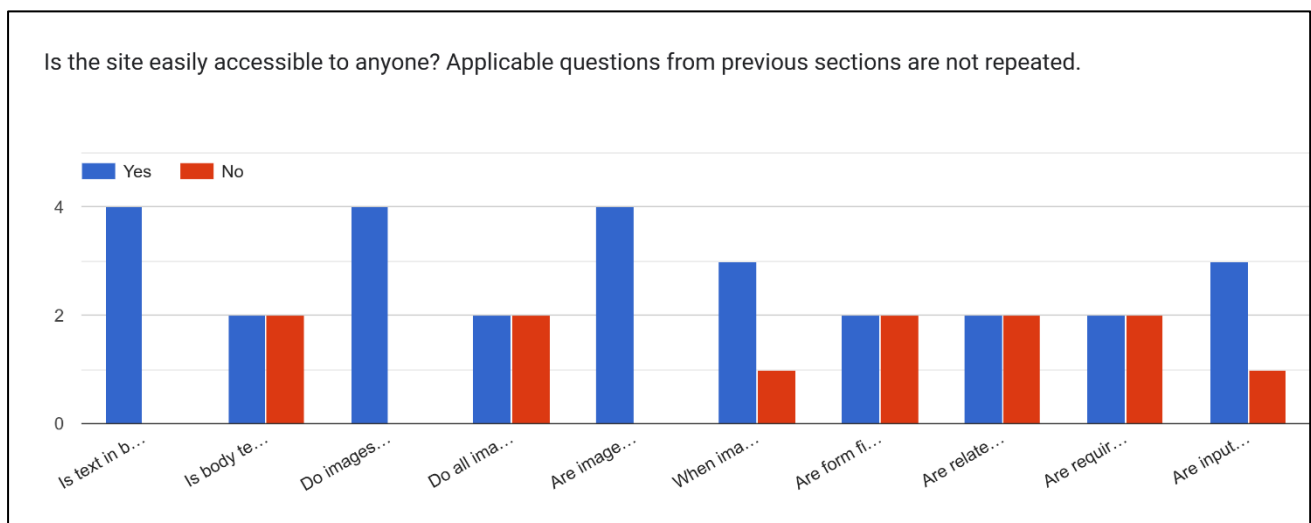


Figure 1 Graph showing summary of responses to questions on site accessibility

B Performance testing will be carried out by the developer, using this checklist

Performance			
Test Area	Specific Test	Passed Y/N	Comments
Speed Testing ( <a href="#">Make the Web Faster   Google Developers</a> )	Does page load at 90% or higher?	No See screenshot below	
Browser Testing	Browser 1 – MS Edge	Yes	
	Browser 2 – Google Chrome	No	Home screen loaded, hamburger menu appeared, and dropped down when hamburger was clicked but when another page was clicked it did not load
	Browser 3 - Browser	Yes	Font size too small
Responsiveness	320px to 480px	Yes	Home page only in Chrome, other pages did not load so cannot tell
	481px to 768px	Yes	
	769px to 1024px	Yes	
	1025px to 1200px	Yes	



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so [manual testing](#) is also encouraged.

### CONTRAST

▲ Background and foreground colors do not have a sufficient contrast ratio.

These are opportunities to improve the legibility of your content.

### NAMES AND LABELS

▲ Links do not have a discernible name

These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

### ADDITIONAL ITEMS TO MANUALLY CHECK (10)

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

### PASSED AUDITS (0)

### NOT APPLICABLE (50)



## Best Practices

### TRUST AND SAFETY

○ Ensure CSP is effective against XSS attacks

### GENERAL

○ Detected JavaScript libraries

### PASSED AUDITS (14)

### NOT APPLICABLE (1)



## SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more about Google Search Essentials](#).

### ADDITIONAL ITEMS TO MANUALLY CHECK (1)

○ Structured data is valid

Run these additional validators on your site to check additional SEO best practices.

### PASSED AUDITS (12)

### NOT APPLICABLE (2)

### More on PageSpeed Insights

What's new  
Documentation  
Learn about Web Performance  
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For details, see the [Google Developers Site Policies](#).

Report from Mar 11, 2024, 12:21:26 PM

<https://dgl409.jchandass.imgd.ca/dtSimplified/>

Analyze

Mobile

Desktop

Discover what your real users are experiencing

No Data

Diagnose performance issues

78

Performance

81

Accessibility

100

Best Practices

100

SEO

78

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. [See calculator.](#)

▲ 0-49 ■ 50-89 ● 90-100



## METRICS

Expand view

▲ First Contentful Paint  
3.3 s

■ Largest Contentful Paint  
3.3 s

● Total Blocking Time  
10 ms

● Cumulative Layout Shift  
0

▲ Speed Index  
8.5 s

📅 Captured at Mar 11, 2024, 12:21 PM PDT  
🕒 Initial page load

🖥️ Emulated Moto G Power with Lighthouse 11.5.0  
🔋 Slow 4G throttling

👤 Single page session  
🌐 Using HeadlessChromium 122.0.6261.94 with 1x

[View Treemap](#)Show audits relevant to: **All** EGP LCP TBT CLS

## DIAGNOSTICS

▲ Eliminate render-blocking resources — Potential savings of 2,300 ms

▲ Enable text compression — Potential savings of 148 KiB

▲ Largest Contentful Paint element — 3,330 ms

▲ Reduce unused CSS — Potential savings of 91 KiB

▲ Reduce unused JavaScript — Potential savings of 57 KiB

■ Serve static assets with an efficient cache policy — 10 resources found

○ Initial server response time was short — Root document took 370 ms

○ Avoids enormous network payloads — Total size was 212 KiB

○ Avoids an excessive DOM size — 104 elements

○ Avoid chaining critical requests — 10 chains found

○ JavaScript execution time — 0.1 s

○ Minimizes main-thread work — 0.4 s

○ Avoid long main-thread tasks — 2 long tasks found

More information about the performance of your application. These numbers don't directly affect the Performance score.

PASSED AUDITS (24)

Show

## Usability Testing

Test Date: March 11<sup>th</sup> 2024

Test Location: Raven Hall 212

Users: TBD

1. Each user will access the site at <https://dgl409.jchandass.imgd.ca/dtSimplified/> using their personal computer or lab computer
2. The user/s will attempt to complete the test scenarios

Test Scenario 1: The user needs to generate ideas to solve the problem of students purchasing less from the cafeteria because of the long time it takes to purchase. The user needs to learn about some ideation techniques.

Test Scenario 2:

The user wants to learn about the stages of design thinking because they are uncertain about the order.

Test Scenario 3:

The user wants to learn how to create low-fidelity wireframes, while using their phone on the bus.

3. The scribe will document the user's actions, without interference or prompts
4. The developer may ask the user questions about whether they had challenges, possible improvements
5. The developer will collate the data and apply feedback to site revision

**Test Scenario 1:** The user needs to generate ideas to solve the problem of students purchasing less from the cafeteria because of the long time it takes to purchase. The user needs to learn about some ideation techniques.

**Test Scenario 1 User R**

User opened site

Clicked on Ideate on Menu

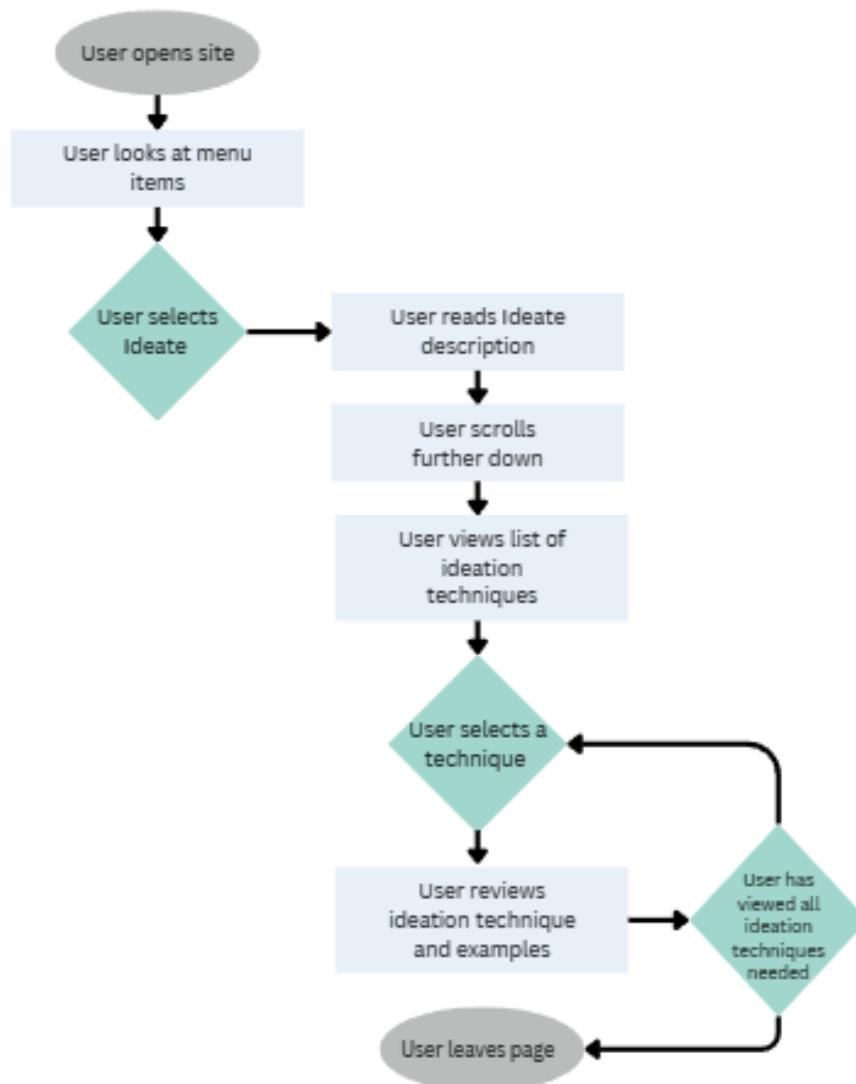


Figure 2 Expected User Flow Scenario 1



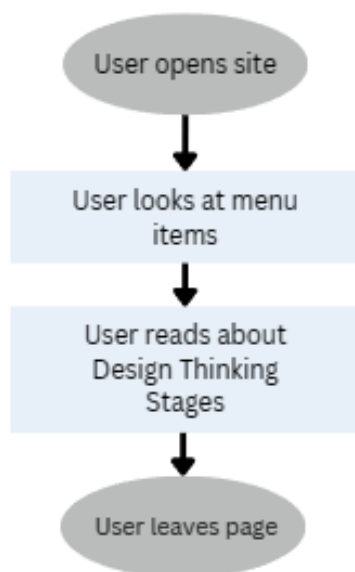
**Test Scenario 2:**

The user wants to learn about the stages of design thinking because they are uncertain about the order.

**Test Scenario 1 User R**

User opened site

User scrolled on homepage, saw stages



*Figure 3 Expected User Flow Scenario 2*

**Test Scenario 3:**

The user wants to learn how to create low-fidelity wireframes, while using their phone on the bus.

**Test Scenario 3 User A**

User opened site

Clicked on Prototype on Menu

Clicked on Projects

Saw wireframe example

**Test Scenario 3 User R**

User opened site in mobile view

User hesitated was unsure

Clicked on Prototypes

Clicked on Projects

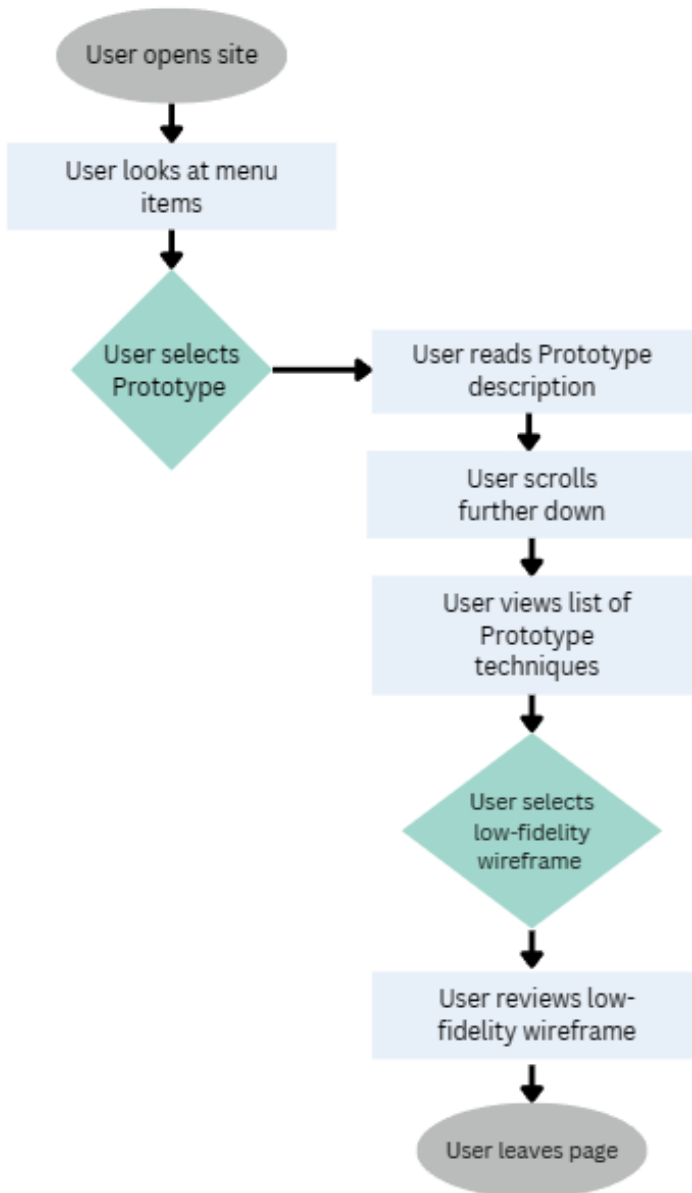


Figure 4 Expected User Flow Scenario 3

## Overall Feedback

### Content

- Content was free of grammatical and spelling errors
- Content was clear and concise with good hierarchy
- Section headings and labels can be more descriptive

### Navigation

- Sub-menus or drop-downs can be used so that user can easily see what techniques are under the various stages
- Navigation is sticky but has transparent background, body content is visible behind, place navigation in hero or change background
- Change link colour, contrast is too low

### Site accessibility:

- Images don't have captions
- Body text size, is too small especially on mobile
- Text contrast in the heading needs to be higher
- Form fields need to be clearly labelled and better grouped
- Suggestion was made for form to be on page not open in separate page using separate form tool