

## Introduction

- According to the Organization for Economic Cooperation and Development (OECD), the mean proficiency in literacy among adults in the US and Canada is at a Level 2.<sup>1</sup>
- Adults at this level can't process dense texts, eliminate irrelevant information, perform multi-step operations, or evaluate the reliability of a source.<sup>2</sup>
- Low-literacy affects:
  - employment → difficult to land jobs or advance careers;
  - socio-economic status → stigma and lower-paying jobs;
  - & health → more workplace accidents and medication misuse.<sup>3</sup>

## Purpose

- The Reading Tutor will be a free to use website that is personalized for the literacy level of every user.

## Process

- I worked on streamlining the data entry process and improving the user intake experience.

## Data Entry

- Grouped data from the master spreadsheets and organized it into spreadsheets designated for each scenario.

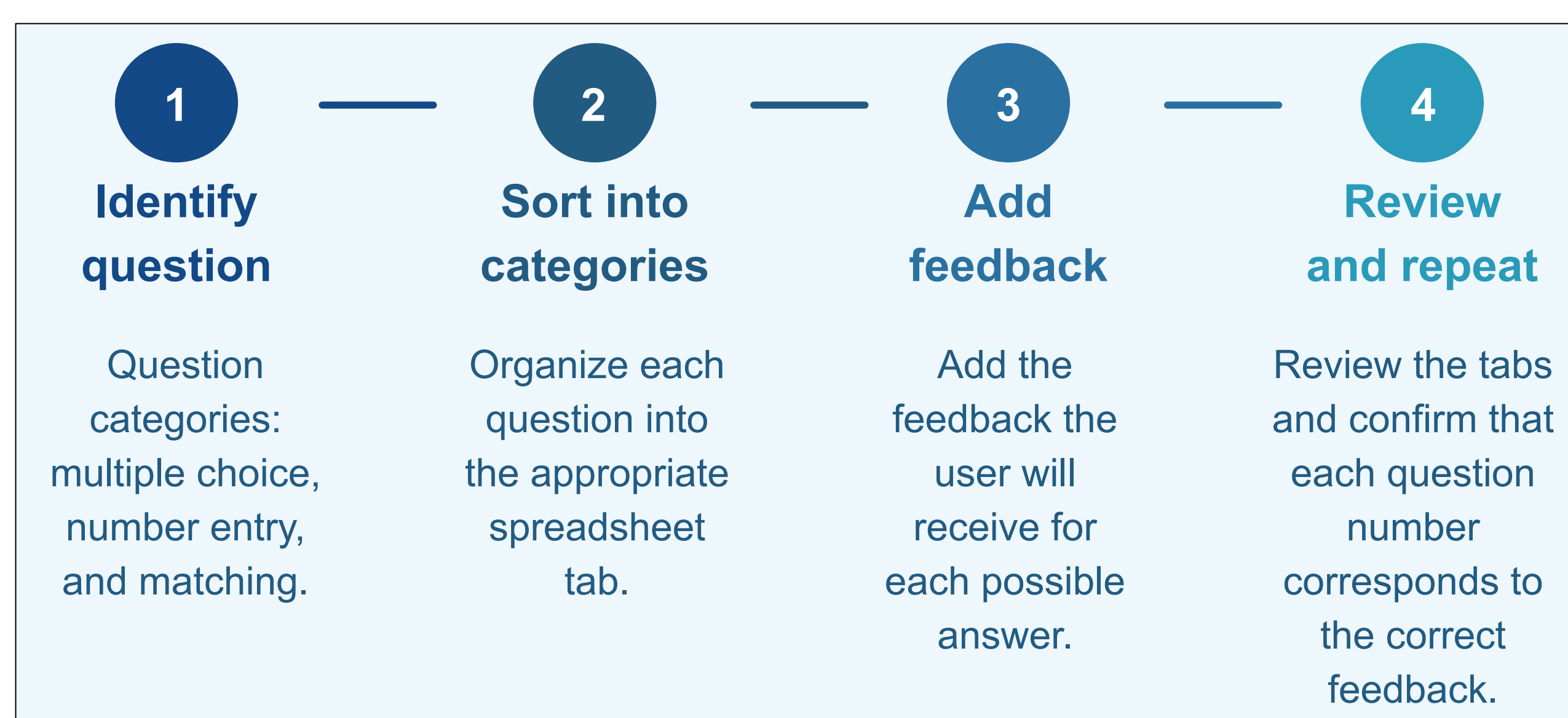


Figure 1: This was the process for organizing the data into spreadsheets.

## Coding

- Learned how to code in HTML, CSS, and Javascript using Codecademy and w3schools.
  - Focused on forms, buttons, and web-design elements.
- Used the operating system Ubuntu and a coding platform called Visual Studio Code to create the pages that collected the user's interests.

## System Architecture

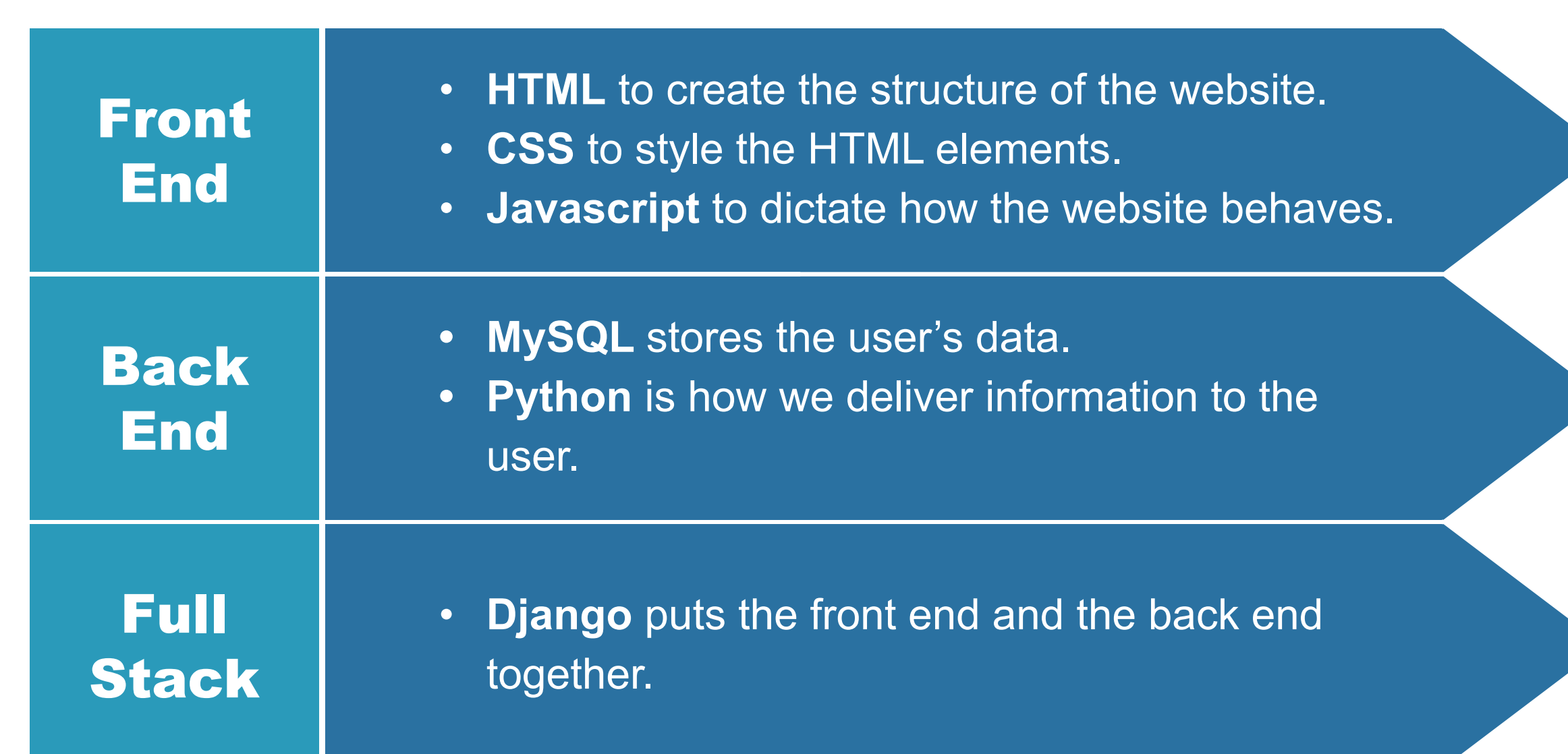


Figure 2: Front-end development creates what the user will see in a website. Back-end development is the "behind the scenes" work that takes care of databases and such. Full stack is a combination of the two.

## Results

- This is the page that collects the user's interests.

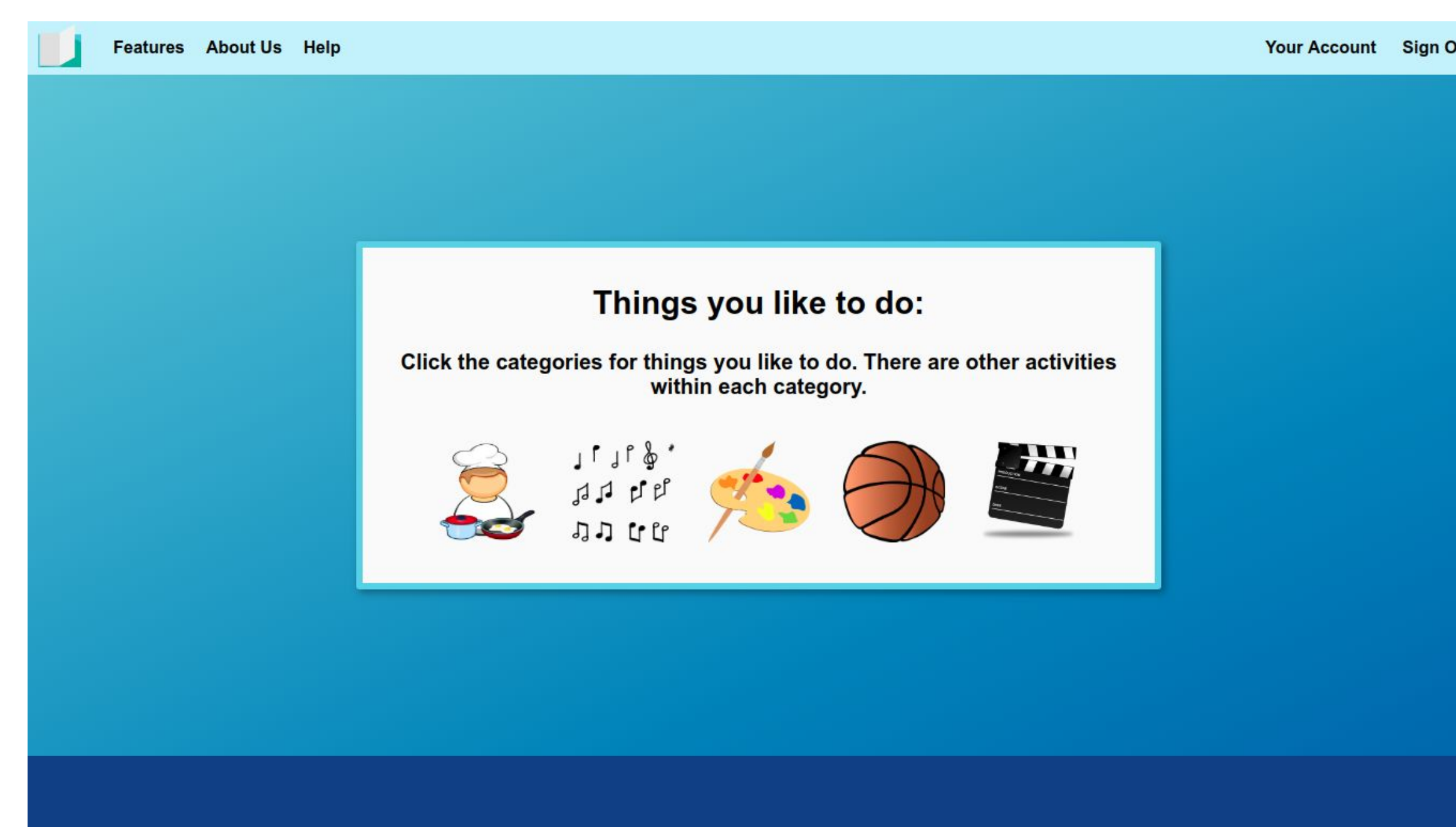
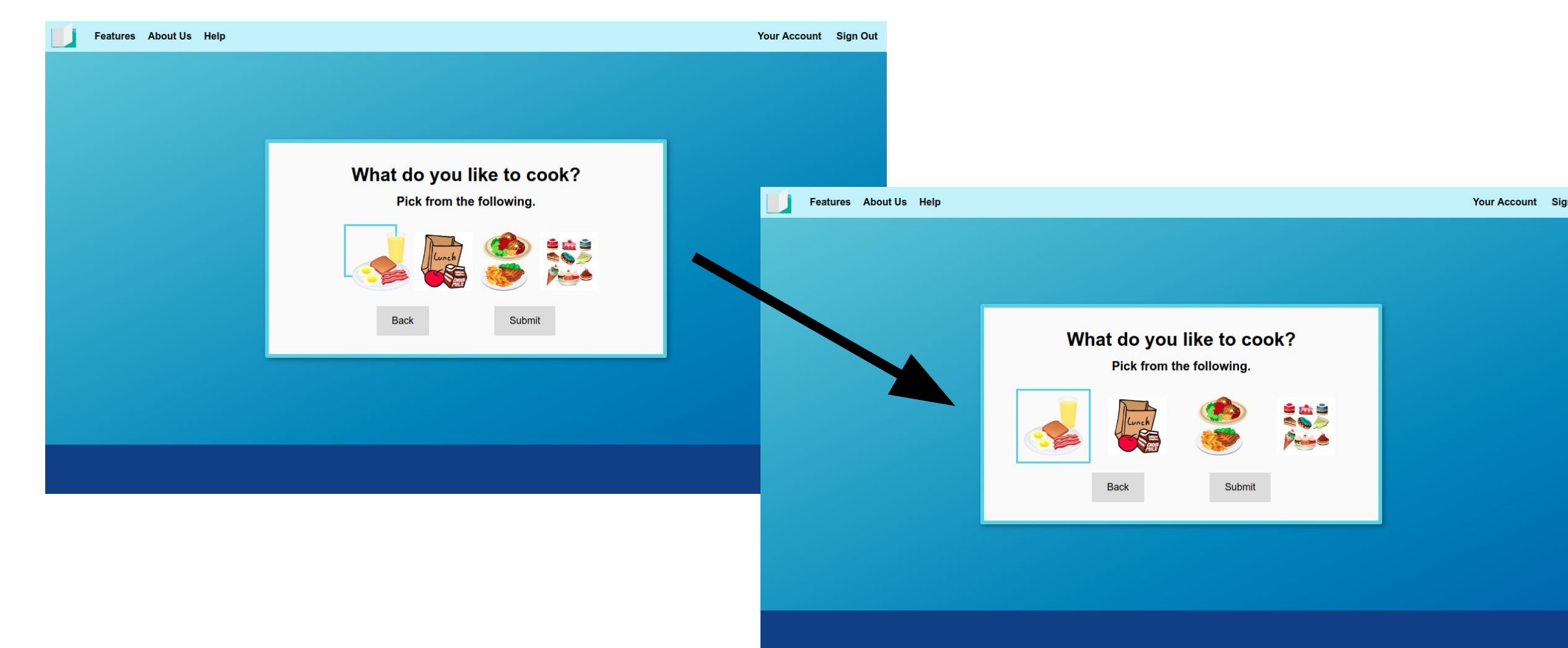


Figure 3: Relevance is a motivator for the website's user demographic so the content is personalized to each individual based off what their interests are.

- There were some bugs in the code such as this one where the borders of the selected options were not aligned with the images.



Figures 4, 5: The offset borders were fixed.

## Discussion

- The next step for the interests page is to log the user's interests into the database.
- More scenarios will be created to correlate with the interests of the user.
  - ex. A sports scenario for users that are interested in sports.

## Literature Cited

1. OECD (2013), "OECD Skills Outlook Tables of results", in OECD Skills Outlook 2013: First Results from the Survey of Adult Skills, OECD Publishing, Paris, <https://doi.org/10.1787/9789264204256-11-en>.
2. OECD (2013), "Proficiency in Key Information-Processing Skills among Working-Age Adults", in OECD Skills Outlook 2013: First Results from the Survey of Adult Skills, OECD Publishing, Paris, <https://doi.org/10.1787/9789264204256-6-en>.
3. "Consequences of Illiteracy: Literacy Foundation." Fondation Pour L'alphabétisation, [www.fondationalphabetisation.org/en/causes-of-illiteracy/consequences-of-illiteracy/](http://www.fondationalphabetisation.org/en/causes-of-illiteracy/consequences-of-illiteracy/).

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