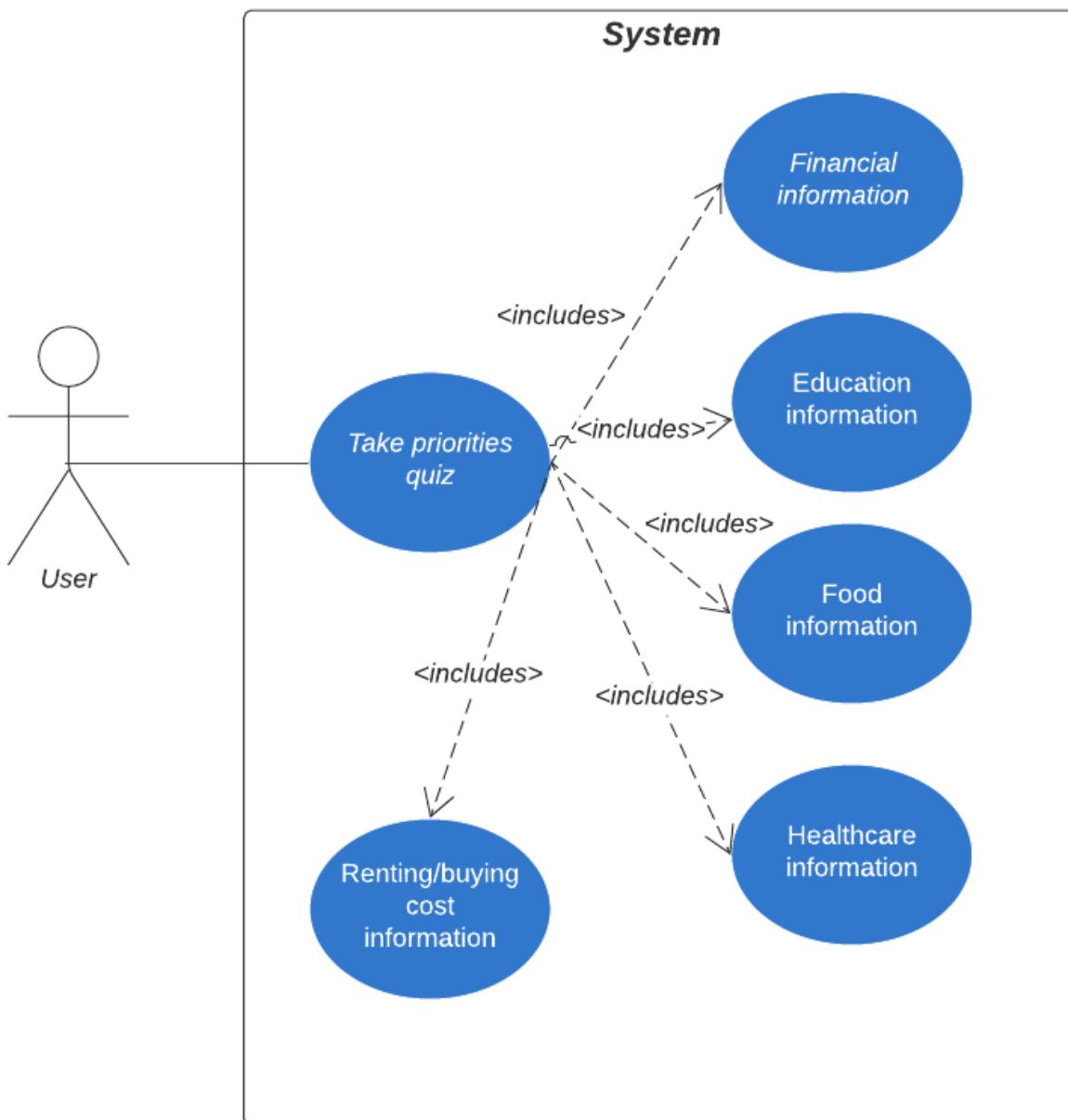


Use Case Diagram



User Personas

- See following pages.

ROMAN'S PERSONA TEMPLATE

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 PICTURE & NAME	 DETAILS	 GOAL
<p>What does the persona look like? What is its name? Choose a realistic and believable picture and name.</p> <p>Alejandra Garcia</p>  <p>Alejandra is a Hispanic American originally from Florida. She is 28 years old and has been working as a yoga teacher for eight years. Since the COVID-19 pandemic, Alejandra closed her yoga studio and started offering online yoga sessions as a freelancer. She is an outgoing and laid-back person. Alejandra always likes to get to know new friends, try different living experiences, and travel throughout the country.</p> <p>Alejandra is a tech-savvy person since most of her tutoring sessions right now are offering online. She is considering moving out of Miami to change her daily lifestyle and also for a cheaper rent.</p>	<p>What are the persona's relevant characteristics and behaviours? For instance, demographics, such as age, gender, occupation, and income; psychographics, including lifestyle, social class, and personality; and behavioural attributes like usage patterns, attitudes, and brand loyalty. Only list relevant details.</p> <p>Age: 28 years old Marital Status: Single, never married Location: Miami, Florida Occupation: Freelance yoga teacher Education: Associate Degree Income: Unstable, in range of \$35,000 to \$45,000 Personality: Outgoing, laid-back Hobbies: Yoga, Travel, Night life</p>	<p>What problem does the persona want to solve or which benefit does the character seek? Why would the persona want to use or buy the product?</p> <p>Alejandra would find our tool helpful because she would like to know which locations provide her most tax advantage as a self-employed freelancer. She also wants to know some general information regarding living expenses in a specific area, especially rent costs. Moreover, Alejandra is concerned about the crime rate and personal safety as a young single female that first comes to a new city.</p> <p>By using our application, Alejandra would obtain the reliable information she needed in just a simple step.</p>

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ROMAN'S PERSONA TEMPLATE

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 PICTURE & NAME	 DETAILS	 GOAL
<p>What does the persona look like? What is its name? Choose a realistic and believable picture and name.</p> <p>Katherine Wellington</p>  <p>Katherine Wellington is a 43 year old ex-air hostess. She left her job about 2 years ago and currently lives in California. She's single and plans on moving closer to home in Virginia. After cutting the her job as an air hostess, she started her own travel agency. As a part of her start up, she is planning to arrange small tours for the people who visit places near by and suggest good restaurants and hotels.</p> <p>Ms. Wellington loves to interact with people from all ethnicities and would never say no to food! She believes in having first hand experiences before suggesting it to her clients.</p>	<p>What are the persona's relevant characteristics and behaviours? For instance, demographics, such as age, gender, occupation, and income; psychographics, including lifestyle, social class, and personality; and behavioural attributes like usage patterns, attitudes, and brand loyalty. Only list relevant details.</p> <p>Age: 40+ Gender: Female Nationality: American Occupation: Ex- air hostess, Travel Consultant/ Travel Agent Income: \$ 50,000</p>	<p>What problem does the persona want to solve or which benefit does the character seek? Why would the persona want to use or buy the product?</p> <p>Katherine would like to use our tool to explore the areas that she might consider to rent/buy a home. As she wants to start her business as well she might want to consider a place near her work. A community with diverse people might interest her at the same time somewhere within a major city might give her options to explore food.</p> <p>While using our tool she could give communities near good hotels and restaurants high priority and maybe communities far away from the city a low priority.</p>

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 PICTURE & NAME	 DETAILS	 GOAL
<p>What does the persona look like? What is its name? Choose a realistic and believable picture and name.</p> <p>Name: Chet Kablowski</p> 	<p>What are the persona's relevant characteristics and behaviours? For instance, demographics, such as age, gender, occupation, and income; psychographics, including lifestyle, social class, and personality; and behavioural attributes like usage patterns, attitudes, and brand loyalty. Only list relevant details.</p> <p>Age: 22 years old Marital Status: Single Occupation: Junior Data Scientist Location: Centreville, Virginia Education: Bachelor's degree, Masters in progress Income: Disposable (no rent), paying off student loans, \$95,000-\$115,000 Personality: Socialite, open to new experiences Hobbies: Non-competitive sports, online gaming, hiking</p> <p>Chet is a recent graduate of Virginia Tech's Computer Science undergraduate program. He is a native of Centreville, Virginia, and has recently moved from Blacksburg as he is starting a new position as a Junior Data Scientist with a technology consulting firm in Northern Virginia, as well as starting a part-time graduate degree in Computer Science at Virginia Tech's NVC campus.</p> <p>Currently, he is living with his parents in Centreville, who have been generous enough to let him stay rent-free in his childhood room. He has been working remote, but will soon have to start commuting to Tysons, Virginia as his company transitions back to in-person work. This commute is not ideal for Chet, since he lives outside of the beltway. His current job is not challenging enough for him, and there is not much of a night life in Centreville, nor intermural sports. Because of this, Chet would like to relocate to an area inside the beltway. He would like an area that fits people in his demographic (young single professionals) and has disposable income accumulated due to not having to pay rent currently and being nearly done paying off his student loans.</p>	<p>What problem does the persona want to solve or which benefit does the character seek? Why would the persona want to use or buy the product?</p> <p>Chet would find this product useful because he would be able to see locations that are within his budget and within proximity to his workplace that would provide a more ideal living situation. He could also view factors for each area that he cares about, such as food options and demographics.</p> 

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ROMAN'S PERSONA TEMPLATE

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 PICTURE & NAME	 DETAILS	 GOAL
<p>What does the persona look like? What is its name? Choose a realistic and believable picture and name.</p> <p>Pat Pichler</p> 	<p>What are the persona's relevant characteristics and behaviours? For instance, demographics, such as age, gender, occupation, and income; psychographics, including lifestyle, social class, and personality; and behavioural attributes like usage patterns, attitudes, and brand loyalty. Only list relevant details.</p> <p>Pat is a 55 year old scrum master living in Manassas with his wife making 130k a year. He enjoys spending time with his friends and going out to different restaurants. Since his last child just went off to college, he's planning on relocating to Alexandria. He's middle class and his friends would describe him as friendly and caring. She's technically literate, uses a computer everyday, and has been researching the best websites on how to guide a relocation.</p>	<p>What problem does the persona want to solve or which benefit does the character seek? Why would the persona want to use or buy the product?</p> <p>Pat is looking to see how much he should ask for his salary in Alexandria, as well as what areas he'll be able to move too there. He'll be able to see how close he'll be able to afford to be closer to his friends.</p> 

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ROMAN'S PERSONA TEMPLATE



PICTURE & NAME	DETAILS	GOAL
<p>What does the persona look like? What is its name? Choose a realistic and believable picture and name.</p> <p>Claire Tindall</p>  <p>IMAGE BY GENERATED.PHOTOS</p>	<p>What are the persona's relevant characteristics and behaviours? For instance, demographics, such as age, gender, occupation, and income; psychographics, including lifestyle, social class, and personality; and behavioural attributes like usage patterns, attitudes, and brand loyalty. Only list relevant details.</p> <p>Claire is a 30-something working professional who has been happily married for five years. She and her partner are thinking about starting a family.</p> <p>Claire and her partner both have decent jobs and so the family is firmly middle-to-upper-middle-class. They like to travel and spend nights 'out on the town' but have been responsible with their money and saving up for a move like this as they look to buy a house or rent a comfortable and spacious apartment.</p> <p>She has climbed the ladder at her job a fair bit for a young professional, and so she would like to remain local to the Northern Virginia area to continue working in her current job.</p>	<p>What problem does the persona want to solve or which benefit does the character seek? Why would the persona want to use or buy the product?</p> <p>This persona wants to use the tool as an exploratory option to learn more about the different areas she might consider settling down. Once she has an idea about the major characteristics of different neighborhoods, she will probably use other tools to identify and pursue specific properties within those neighborhoods.</p> <p>Because is looking to start a family, she she wants to move to a location with good schools for her kids(s) to attend and good pediatric health options. When completing the tool's preferences quiz, she will give schools a high preference score and healthcare a moderately high preference score.</p>

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User Stories

- **Fresh graduate**

As a Fresh Graduate Hokie with several job offers,
I want to compare my job offers and decide which city would best suit my needs,
so that I can have a promising career and the best life quality.

- **Mom concerning education resources**

As a mom with three kids.
I am planning for relocation. I want to know which city has the best public education,
so my kids can attend high-quality schools.

- **Retired elder**

As a man enjoying retired life,
I want to know which city has the best medical resources and senior care,
so that I can obtain any medical support right away when I need it.

- **Young family looking for rent/buy options in the real estate market**

As a mom welcoming the third new baby,

I want to upgrade my living place for the new member of the family. I want to know where to rent or buy a new house in a specific city.

So I can make the best decision to find a new place to live.

- **Travel operator**

As a travel business owner,

I enjoy food and culture from diversified communities. I want to know in which area I can access the widest variety of food choices.

so I can set up my business there and start my food adventure.

- **Freelancer with unstable income**

As a freelancer throughout the country,

I want to take the most tax advantage of my income and save money for the future needs,

so I can stabilize my financial situation and increase my financial risk tolerance.

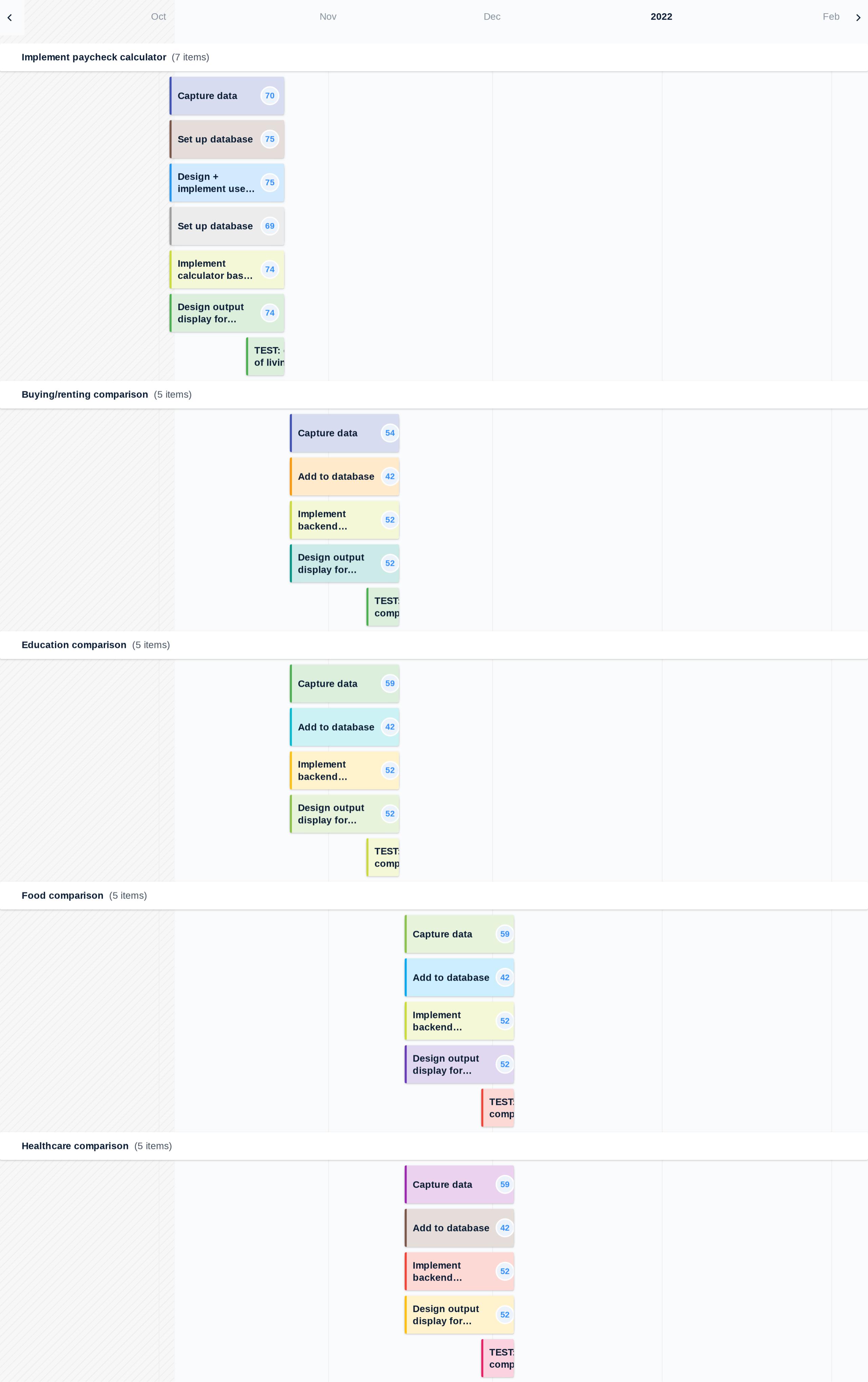
- **Young chic working professional**

As a stylish person who cares about shopping choices,

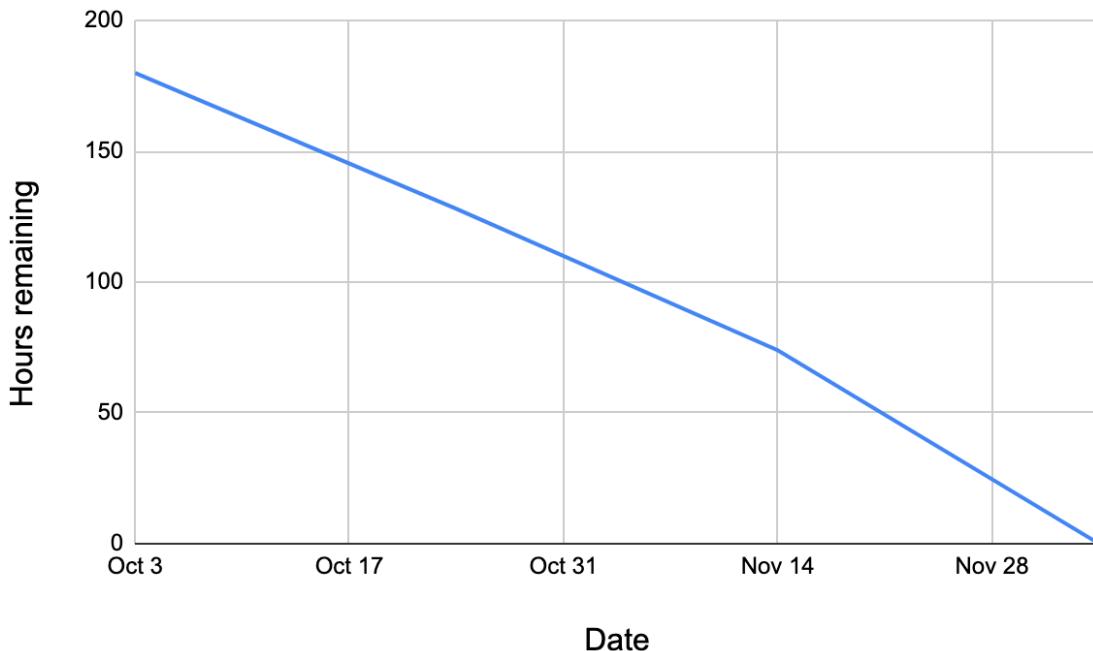
I want to know what kind of brand stores exist in a specific city and its sales tax rate, so I can have the best shopping experience and spend less on paying sales tax.

Scrum

- Product Backlog
 - <https://trello.com/b/wOUqySLn/cs-capstone-kanban>
- Product Roadmap
 - See following page.



- Product Burndown Chart



GitLab setup

- <https://code.vt.edu/cost-of-living-app/cost-of-living>