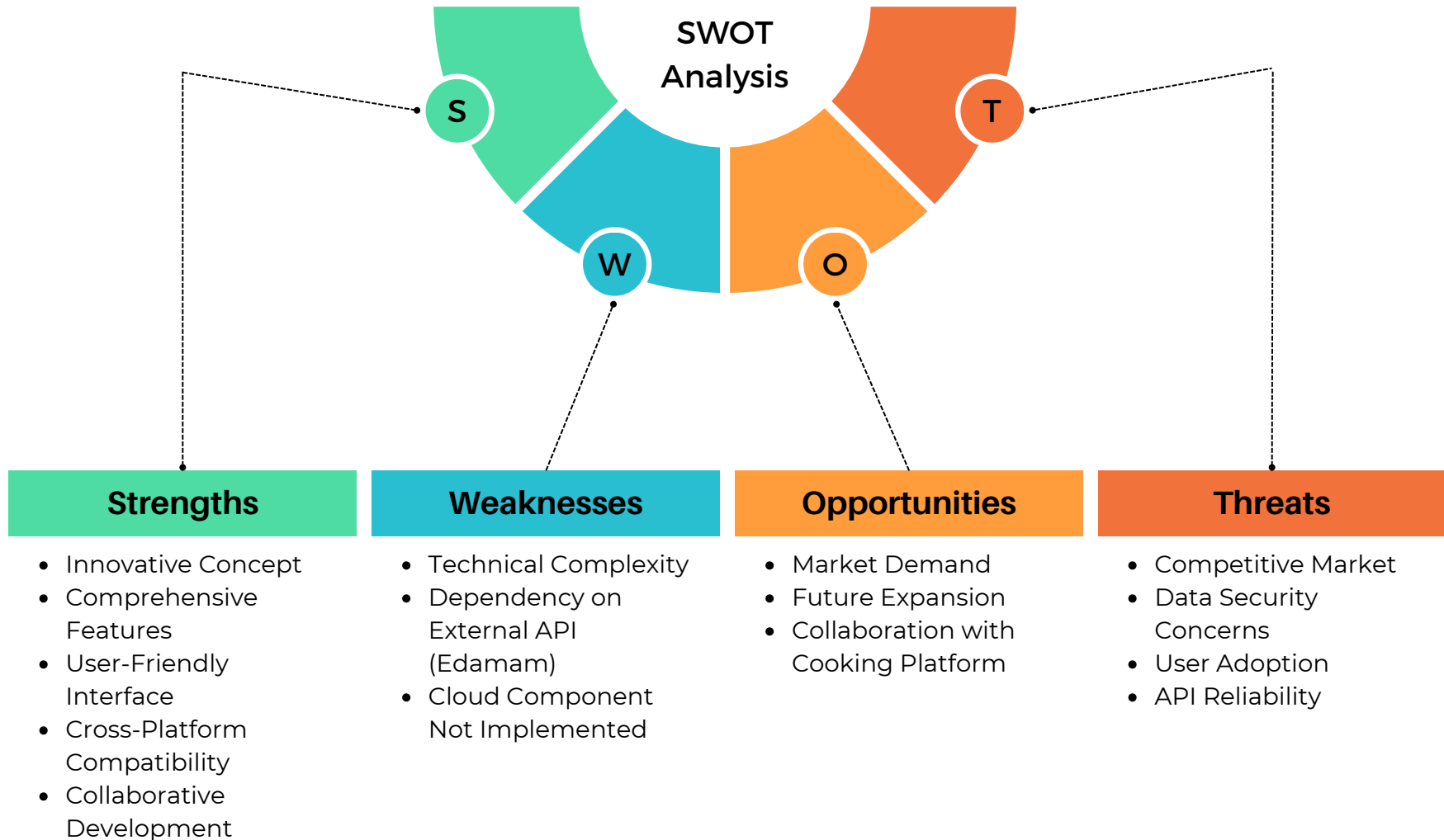



Smart Pantry



Strengths

- **Innovative Concept:** The Smart Pantry addresses a common problem in households, providing an innovative solution to effortlessly manage kitchen inventory.
- **Comprehensive Features:** The system offers a range of features, including inventory management, recipe generation, stock level updates, and shopping list generation, covering various aspects of kitchen management.
- **User-Friendly Interface:** The project aims to have a user interface that is easy to interact with, enhancing the user experience.
- **Cross-Platform Compatibility:** By utilising a web-based platform, the system is accessible across devices, providing flexibility to users.
- **Collaborative Development:** The team is organised, follows Agile methodology, and utilises various collaboration tools such as Trello, Slack, and GitHub, promoting efficient communication and task tracking.

Weaknesses

- **Technical Complexity:** The integration of different technologies (JavaScript, HTML, CSS, Python, SQL, API) may pose challenges in terms of development complexity and potential technical issues.
 - **Dependency on External API (Edamam):** The reliance on an external API introduces a potential point of failure if the API service is disrupted or if there are changes to its functionality.
 - **Cloud Component Not Implemented:** While a cloud component is mentioned for real-world scenarios, the current version requires users to host the webpage and database locally, limiting scalability and collaborative use.
- 

Opportunities

- **Market Demand:** The project addresses a real-life problem faced by many households, tapping into a potential market with a demand for smart kitchen solutions.
- **Future Expansion:** Once the core features are established, there is an opportunity to expand the system with additional features, integrations, or by migrating to a cloud-based solution.
- **Collaboration with Cooking Platforms:** Collaborating with popular cooking platforms could enhance the recipe generation aspect, providing a wider array of recipes and attracting more users.

Threats

- **Competitive Market:** The market for smart kitchen solutions is competitive. The project needs to differentiate itself to stand out among existing and potential competitors.
- **Data Security Concerns:** As the project involves personal kitchen inventory data, ensuring robust security measures is crucial to protect user information.
- **User Adoption:** The success of the project relies on user adoption. If the system is not intuitive or fails to meet user needs, it may struggle to gain widespread acceptance.
- **API Reliability:** The reliance on the Edamam API introduces a risk if the API service faces downtime or if there are changes in access policies.

SWOT Analysis: Karen

S

Strength

what are you good at?

- Karen enjoys learning which helps her to stay motivated. She consistently dedicates time to additional study to allow her to continually improve her coding skills.
- Karen has several years of experience working in retail banking where she developed good time management skills allowing her to prioritise tasks well and manage her workload efficiently.
- Karen enjoys group work and contributing to team projects.

W

Weakness

what do you want to improve?

- Karen can often feel overwhelmed when learning new and complex concepts, this can result in low confidence in her abilities and bouts of imposter syndrome.
- Karen does not have a technical background and as a result lacks the experience of more seasoned developers.

O

Opportunity

can this be improved?

- The steep learning curve associated with coding provides an opportunity for rapid growth and development and will help Karen to overcome imposter syndrome and build her confidence.

T

Threat

what are the potential negative impacts?

- Karen's children have health conditions and some additional care needs which can sometimes take up substantial time, particularly during periods with numerous appointments. This can limit her study time, potentially slowing her learning progress. Balancing parental responsibilities with coding ambitions poses challenges to Karen's time management.

SWOT Analysis: Vanessa

S

Strength

what are you good at?

- Vanessa's optimistic nature allows her to approach challenges with a positive mindset, enabling her to stay motivated and find solutions.
- Vanessa's sensibility and practicality allows her to make well-informed decisions and effectively prioritise tasks.
- As an active listener, Vanessa is able to understand and comprehend information effectively, ensuring she grasps concepts in her field of study.
- Vanessa's logical thinking skills provide her with the ability to analyse problems critically and find logical solutions.

W

Weakness

what do you want to improve?

- While Vanessa is generally motivated, there are times when her motivation may not reach 100%. This could potentially impact her level of productivity and focus.
- Vanessa acknowledges that she lacks creativity. This may limit her ability to think outside the box and approach problems from different perspectives.
- Vanessa admits to struggling with patience sometimes. This may lead to frustration or rushing through tasks, which can potentially impact the quality of her work.

O

Opportunity

can this be improved?

- One opportunity for Vanessa is to learn how to pseudocode. Pseudocoding is an important skill in software engineering that can help break down complex problems into manageable steps.
- Another opportunity for Vanessa is to work on developing her creativity. This could involve engaging in activities or exercises that promote thinking outside the box, such as brainstorming sessions or exploring different art forms.

T

Threat

what are the potential negative impacts?

- Vanessa faces the challenge of balancing her responsibilities. The demands of parenting and taking care of her children may consume a significant amount of her time and energy, potentially affecting her ability to focus on her studies and professional development.

SWOT Analysis: Amy

S

Strength

what are you good at?

- Amy is usually hard working, which means she is likely to put in the necessary time and effort to learn to code effectively. This dedication will contribute to her overall progress and skill development.
- Amy's willingness to put time into learning coding shows a strong commitment to the subject matter. This dedication will allow her to learn at a steady pace and overcome challenges.

W

Weakness

what do you want to improve?

- Amy's lack of confidence could hinder her progress in learning to code. Doubting her abilities might prevent her from fully engaging in learning opportunities and exploring her potential.
- Finding it hard to work under pressure may be a weakness for Amy, as coding often involves problem-solving and working on complex tasks. It is important for her to develop strategies to handle pressure effectively and stay focused.

O

Opportunity

can this be improved?

- Practicing the concepts taught in the lessons will provide Amy with the opportunity to solidify her understanding and improve her coding skills. By consistently applying what she has learned, she can reinforce her knowledge and build a strong foundation.
- Increasing her confidence and taking initiative to try more things will open up new opportunities for Amy. Believing in her abilities and stepping out of her comfort zone will allow her to explore different projects or technologies, enhancing her learning experience.

T

Threat

what are the potential negative impacts?

- Amy's health condition impacting her energy levels and cognition poses a threat to her learning journey. It may lead to fluctuations in productivity and hinder her ability to stay focused. Managing her health and seeking support when needed will be crucial in overcoming this threat and maintaining consistent progress.

SWOT Analysis: Lauren H

S

Strength

what are you good at?

- Lauren.H has successfully run her own business for 6 years, showcasing her resilience, dedication, and ability to work independently.
- Lauren.H is highly motivated and applies herself fully to any task or project she is involved in.
- Lauren.H possesses strong logical thinking and problem-solving skills, which are valuable for any business venture.
- Lauren.H demonstrates an entrepreneurial spirit and is passionate about her work.
- Lauren.H is a great team player and always willing to help others, even if she doesn't have all the answers.

W

Weakness

what do you want to improve?

- Lauren.H tends to be self-critical and lacks self-confidence, which can potentially hinder her professional growth and decision-making abilities.
- Lauren.H feels uncomfortable with public speaking, which could limit her ability to effectively communicate and present ideas in certain situations.
- Lauren.H has no prior experience in coding before starting the CFGDegree, which may pose challenges in learning and adapting to this new skill.

O

Opportunity

can this be improved?

- By practicing coding regularly, Lauren.H can improve both her self-confidence and technical ability. This can lead to increased growth opportunities in her current business or future endeavors.

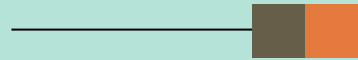
T

Threat

what are the potential negative impacts?

- The full-time commitment of running her own business can consume a significant amount of Lauren.H's time and energy. Balancing this with her studies and other commitments is crucial to effectively manage her workload and avoid burnout.

SWOT Analysis: Anna



S

Strength

what are you good at?

- Text here

W

Weakness

what do you want to improve?

- Text here

O

Opportunity

can this be improved?

- Text here

T

Threat

what are the potential negative impacts?

- Text here

SWOT Analysis: Dorothy

S

Strength

what are you good at?

- Dorothy's optimism and confidence contribute to her ability to approach challenges with a positive mindset and belief in her own capabilities.
- Dorothy is determined and perseverant, which ensures her commitment to achieving her goals.
- Dorothy's willingness to give anything a go and love for collaborating allows her to actively engage with others and successfully work in teams.
- Dorothy is an active listener, which aids in effective communication and understanding of others.
- Dorothy's empathy helps her connect with people and provide support when needed.

W

Weakness

what do you want to improve?

- Dorothy can sometimes procrastinate, which may lead to a delay in completing tasks.
- Dorothy may take a while to make decisions as she carefully considers all factors involved.
- Imposter syndrome may affect Dorothy's self-confidence and belief in her abilities, potentially hindering her from reaching her full potential.
- Dorothy's lack of technical background might pose a challenge when it comes to understanding and implementing complex coding concepts.

O

Opportunity

can this be improved?

- Dorothy should focus on coding more (everyday) and expanding her technical skills to become more proficient in programming.
- Being comfortable with not knowing the answer can be an opportunity for Dorothy to develop coding problem-solving skills and improve her debugging skills.
- Another opportunity for Dorothy is learning how to understand a program that has been coded by multiple people. Therefore, understanding the group strategy, roles, how to organise the program's architecture, and investing time and effort into good version control.

T

Threat

what are the potential negative impacts?

- Balancing life with studying and various assignments may be a challenge for Dorothy due to her overactive mind. This can result in difficulties in effectively dividing her time and prioritizing tasks. Dorothy's tendency to find balancing tasks difficult may lead to increased stress and potential burnout if not managed properly. It is crucial for her to find strategies to maintain a healthy work-life balance.

SWOT Analysis: Lauren S



S

Strength

what are you good at?

- Lauren has strong research and planning skills, which enable her to gather information efficiently and make well-informed decisions.
- Her ideation skills allow her to think creatively, generate innovative ideas, and contribute to problem-solving processes effectively.
- Lauren is resilient, which means she can bounce back from setbacks, learn from failures, and maintain a positive mindset in challenging situations.

W

Weakness

what do you want to improve?

- A weakness of Lauren is her lack of technical knowledge that is unrelated to design. This may limit her ability to understand and leverage certain technical aspects in her work.
- She holds herself to high standards, which can lead to self-imposed pressure and perfectionism, potentially affecting her work-life balance and overall well-being.
- Lauren sometimes struggles with maintaining focus, which may hinder her productivity and ability to complete tasks efficiently.

O

Opportunity

can this be improved?

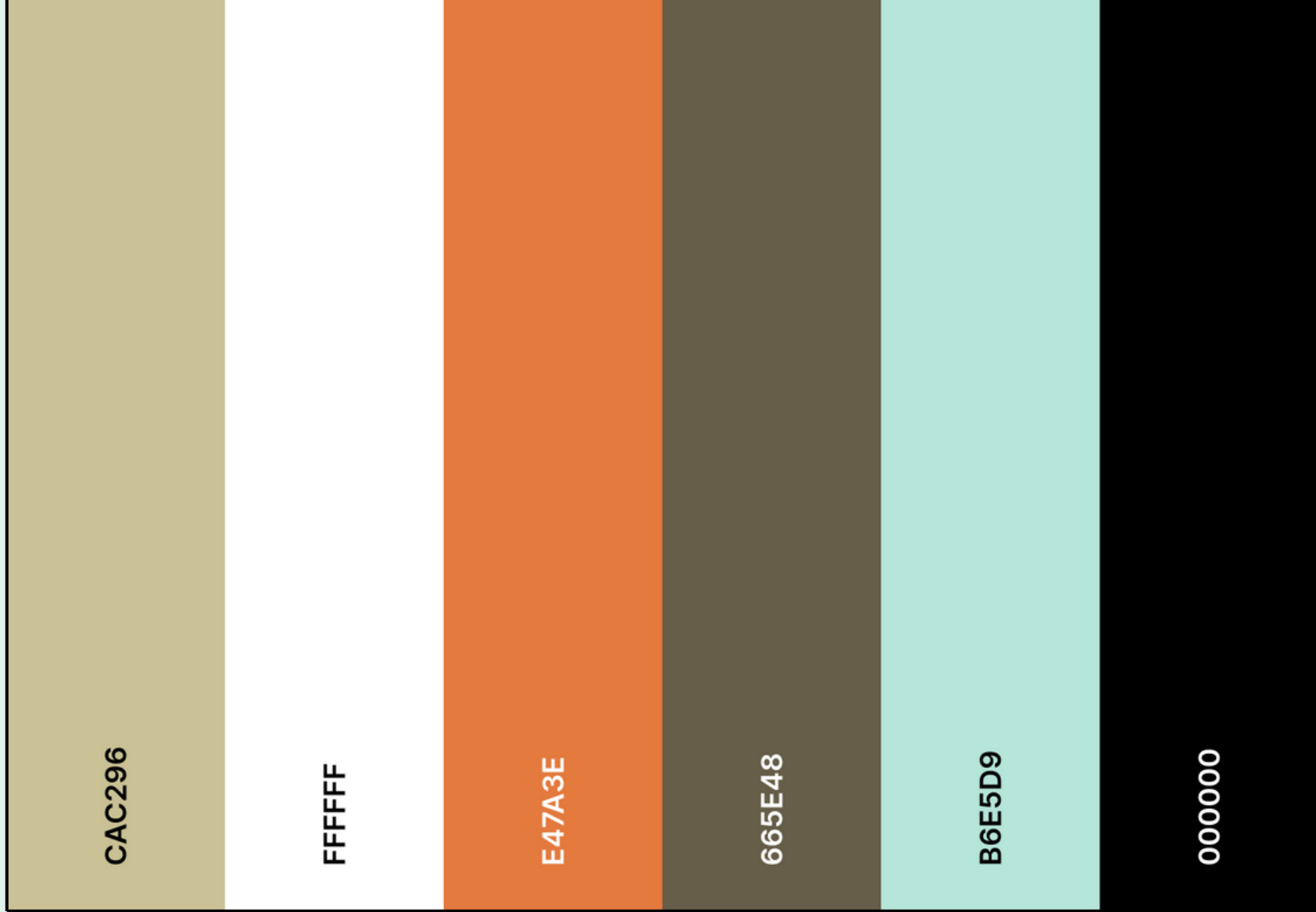
- Lauren has the opportunity to develop her technical knowledge and skills by actively seeking learning opportunities, such as online courses or workshops, to broaden her understanding and expertise.
- By focusing on building her confidence, Lauren can overcome self-doubt and be more assertive in presenting her ideas and opinions, which can lead to greater recognition and career growth.
- Engaging with Scrum and agile methodologies can enhance Lauren's teamwork skills, fostering collaboration and adaptive planning.

T

Threat

what are the potential negative impacts?

- Physical health issues can pose a threat to Lauren's overall well-being and productivity. It is important for her to prioritize self-care and maintain a healthy work-life balance.
- Lauren's ADHD might affect her ability to stay organized and maintain focus on tasks. Implementing strategies and seeking appropriate support can help her mitigate these challenges.
- Familial responsibilities can be a potential threat, as they may demand time and energy, potentially affecting her availability and commitment to professional endeavors.



Smart Pantry Colour Palette