DESIGN

Empathy Maps:

Tali

Tali is a native peruvian from Lima and has basic computer literacy

SAYS	THINKS
- Tali says she likes the idea and may use it to improve her sons academics - Tali would like it if there were more options with the things the website studies so it can be tailored easier to her child's curriculum.	- She is excited that she can have an easy way to offer her child a good education. - She is a little bit sceptical about the topics and curriculum as it may be different to the one her child is studying.
FEELS	DOES
Tali felt excited, happy but contained as it may not work for her child.	- Tali is struggling with navigating the app since she doesn't understand english as well as she does spanish.

Mariana

Mariana is a native peruvian, she is from Lobitos who isn't used to using technology

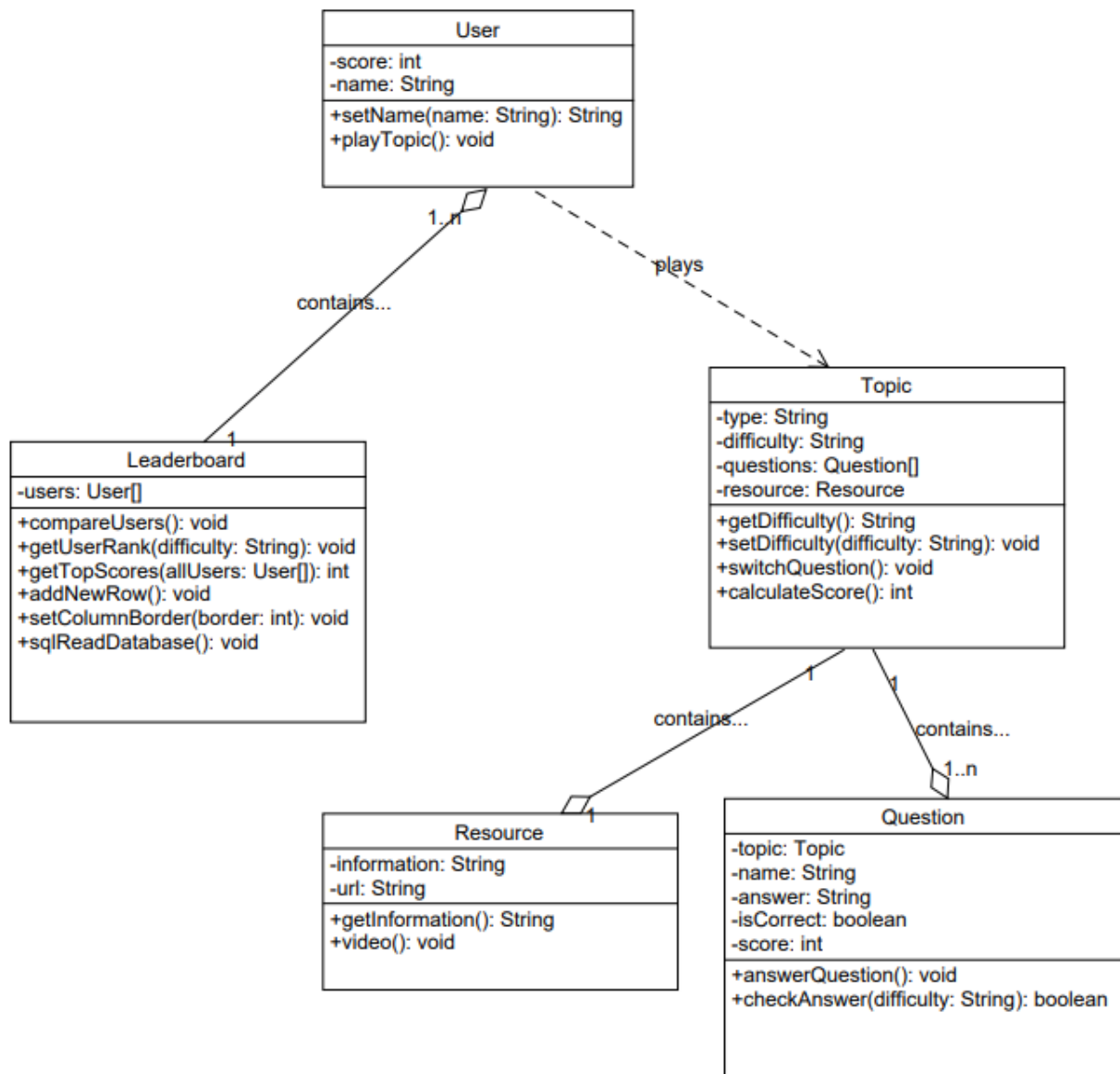| SAYS	THINKS
- Mariana says that she doesn't have access to a secure internet connection and a device to use the website - Mariana wants to learn English more - Mariana wants to learn about nutrition and food as well since there is a lot of false information she's been taught.	Mariana now thinks it would be worth it for her to go to an internet cafe and use the computers there to use the website.
FEELS	DOES
Mariana feels happy but also sad as	Mariana cannot navigate the website

she and a lot of people in Peru don't have access to secure connections/ devices to use the website on. ● She is excited to go to an internet cafe and give the website a go so she can easily learn english. ● Mariana is excited to learn about nutrition so she can implement the information to her daily life and be healthier and also teach her friends.	since she never got taught how to. ● She cannot understand english so there is a language barrier.

Barry

Barry isn't from Peru but wants to go one day, he is from the UK and he works a normal 9 to 5 job.

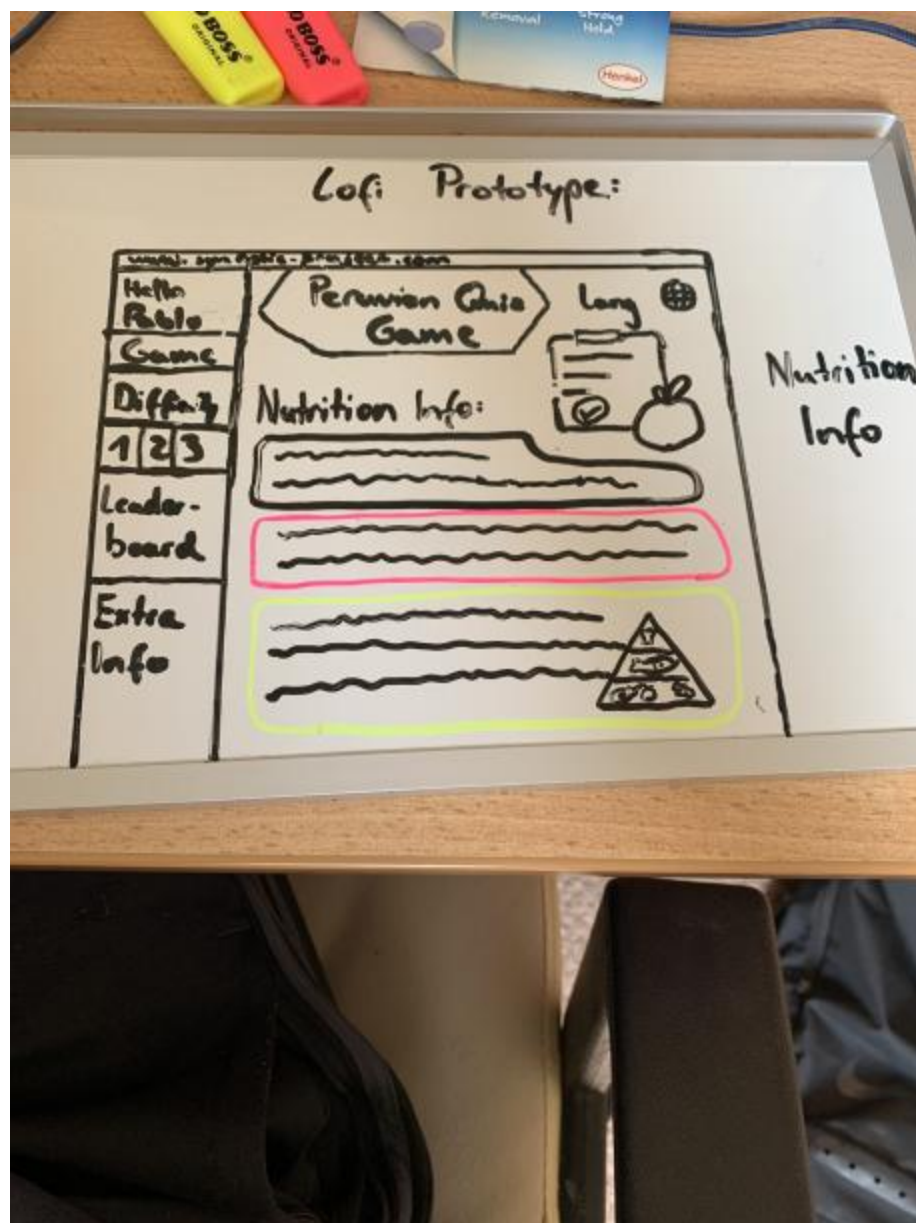| SAYS	THINKS
● Barry says he would like to have a section which allows the user to learn spanish so that he can go to peru and speak the native language. ● He hopes his skill level of spanish is already accommodated for.	● The app looks very easy to understand (maybe a little bit too straight forward) as he is used to more advanced websites.
FEELS	**DOES**
● Barry is excited to use the app as he can now learn spanish in an easy way. ● He feels like he doesn't need to learn the maths part as it got taught to him in school already.	● Barry is able to easily navigate the app since he speaks and understands english and is proficient in his computer literacy. ● Barry navigates to the spanish questions as he already has an understanding of the other topics.

UML Diagram:

User

-score: int
-name: String

+setName(name: String): String
+playTopic(): void

1..n

contains...

plays

1

Leaderboard

-users: User[]

+compareUsers(): void
+getUserRank(difficulty: String): void
+getTopScores(allUsers: User[]): int
+addNewRow(): void
+setColumnBorder(border: int): void
+sqlReadDatabase(): void

Topic

-type: String
-difficulty: String
-questions: Question[]
-resource: Resource

+getDifficulty(): String
+setDifficulty(difficulty: String): void
+switchQuestion(): void
+calculateScore(): int

1

contains...

contains...

1

1..n

Resource

-information: String
-url: String

+getInformation(): String
+video(): void

1

Question

-topic: Topic
-name: String
-answer: String
-isCorrect: boolean
-score: int

+answerQuestion(): void
+checkAnswer(difficulty: String): boolean

Lofi Prototype:

Lofi Prototype:

www.sgn.siphh-249.xxx.com

	Peruvian Quiz Game Long 🌐
Hello Pablo	
Game	**Leaderboard**
Diffng	
1 2 3	
Leaderboard	
Extra Info	

Leaderboard

Player	Score
Sam	37
Juan	29
Enrique	27
Lucy	19
Pablo	12

Lofi Prototype:

www.synApple-studios.com

Hello Pablo

Game

Diffty

1 2 3

Leader-board

Extra Info

Peruvian Chia Game

Long

Nutrition Info:

Nutrition Info

Lofi Prototype:

www. spn-mobile-project1025.com

Hello
Pable

Game

Diffiy

1 2 3

Leader-
board

Extra
Info

Peruvian Quiz
Game

Long 🌐

Quiz 1.)   Score: 2

Q3.)

Fact: Only 20% of house-
holds in Piedritas have
fridges - How many don't?

A: _____ %.

Lofi Prototype:

www. app. origins - shop - club. com

Lang 🌐

Sign up

Username _____

Password _____

Confirm Password

next →

MoSCoW requirements

Must:

- Ask the user questions for the corresponding section

- Be informative about nutrition

- Have different sections that the user can navigate to (e.g. maths game section, nutrition facts section, quiz, etc)

Should:

- Have a user friendly interface

- Provide the user with references to other websites if they would like to explore further into that topic

- Have a consistent theme

- Have links to tutorials on how to make nutritious meals with their local resources
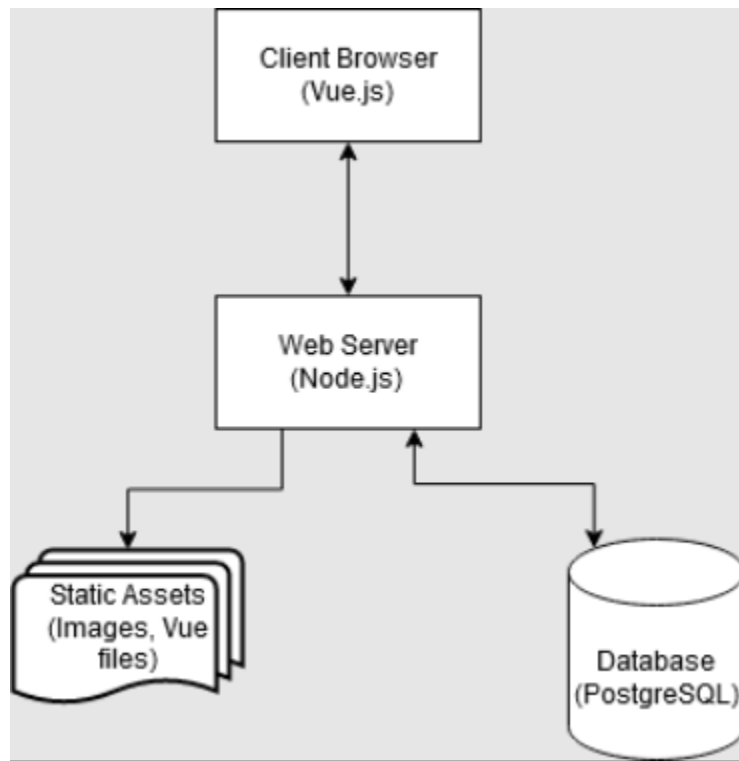
Could:

- Have a leaderboard system to show the user how their score compares to other users' scores

- Have a login system

- Have an option to have everything in Spanish

Won't:

- Keep track of which parts of nutrition you look at the most to personalise the selection of facts it gives you

- Have the option for the user to share their scores on social media

Stack diagram:

Discussion and Exploration of tools and libraries used for our solution:

We decided to use Vue JS because one of our team members already had an idea of how to use it so he could guide us through the learning process making it an efficient way to complete the project. It is also an efficient way of including html/css/javascript in a compact way. It also allows us to distribute the workload amongst each member by allocating each person a component they have to make. We also may use bootstrap since it will give us a good level of functionality for our prototype which we could eventually later on make the components using pure html/css. If we decided to do this, we would use the yarn package manager as it includes bootstrap as well as other libraries if need be.

Design decisions:

We decided it may be best to use a website instead of an application since our target audience is people in Peru (particularly kids) who probably don't have phones/tablets to use the application so instead, they can go to one of the many internet cafes in peru. This also means that it is platform independent and should also work on phones as well as computers which

gives the user the most flexibility with how they want to access the website. We decided it would be best to use big buttons and large text so that it is very easy to understand and it is legible. For our actual quiz, we also thought it was a good idea to include different difficulties for the quiz to accommodate as many people as some questions may be too easy and others may be too difficult. Also for ease of usage, we decided to mostly make our questions multiple choice and the text box only when necessary since this tests the knowledge of the user without relying on correct english which is why we will only use text box questions for the hardest difficulty of questions.