**Topic**

The primary purpose of this project is to create a platform using the latest technologies and trends designed to give pet owners a piece of mind when it comes to the health and safety of their pets.

The process includes building a visual representation of what the app and website will look like, along with a concept of the design for our Pet Tracking Collar.

**Motivation**

What are your motivations for your project?

The idea came about after one of the group members cat went missing, when he was travelling for work. His friend called to say the kitten has been missing for 24 hours, and the fear was because of the breed, the cat might have been stolen, if only he had put on a tracking device on the collar before he left, he could check the location of his pet remotely.

Why is this project important or interesting?

During COVID-19, a lot of people went out and brought pets, some pets went missing or where stolen, why this project is so important and interesting.

How does it fit in with current IT trends?

Emerging IT trends in the Pet Industry is wearable monitors, pet owners want to keep tabs on your beloved animal or keep track of an ill pet's vital signs by fitting them with a wearable monitor. Other technology and trends in the industry are, online ordering, webcams and pet profiles on social media.

What would it show to a future employer if you were able to work on this project?

We would show the prototype of the website and app, and digital illustrations of what the pet collar would look like.

**Landscape**

There are lot of pet finder or GPS tracker out there in the market today with loads of different features, which make it a bit of competition, but however there are differences that makes some standout than others, below are the top ranges of cat tracking system for 2021 and their differences.

1. **Landscape** What similar systems or products are available?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Name | Type of  device | weight | battery life | Include  app | Accuracy level | Health  Monitor  And activities |
| 1 | TRACKER GPS COLLAR | -gps  -sim  -water proof | 30g |  | yes | Longe range |  |
| 2 | CUBE PRO | Bluetooth  waterproof | 12g |  | yes | short |  |
| 3 | PETKIT P2 | Bluetooth | 8.8g |  | yes | short | yes |
| 4 | KIPPY VITA | -gps  -sim  -waterproof | 46g |  | yes | longe |  |
| 5 | LOCATOR TABCAT | -Radio frequency  -waterproof | 6g |  | no | longe |  |
| 6 | WEENECT CAT2 | -sim  -waterproof | 25g |  | yes | longe | yes |
| 7 |  |  |  |  |  |  |  |

<https://www.t3.com/au/features/best-cat-gps-tracker>

1. What competitors are there?

* Tractive <https://tractive.com/en/>

1. What points of difference are there about your project compared to what exists now?

Our project comes with a lot of amazing features consolidated in one comfortable and wearable device. Instead of having to buy different devices for different purpose; below are the list of features that would give you a peace of mind for your pet and it all in one.

* Health monitor
* Gps
* GeoAlert /mic

**Aim**

The topic description gives a general overview. However, it is usually helpful to have a specific aim for your project, as well as some smaller goals which will be helpful for achieving your aim.

Describe these as best you can.

Each project should have a single aim.

(e.g. “Re-establish the King under the Mountain", “Construct an artefact in Minecraft", “Produce a movie about green flowers", “Explore the use of Raspberry Pis for cooking"), but may have several goals which will need to be achieved in order to fulfil your aim (e.g. defeat Smaug, annoy Bard, befriend Beorn, kill as many giant spiders as necessary, fight Azog if he shows up, ... ).

If things don't go as expected, this is the part of the plan that you would fall back on to answer questions such as

“What are the most important parts of the project?

Which parts should have priority over the others?

If we have only enough time or resources for one of our goals, which one should it be?".

One paragraph for the aim and one for each goal is expected.

Each paragraph should include a description of the aim or goal, and a justification for it.