CHEETRACK

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A web and mobile ready solution that identifies and tracks cheetahs in captivity in a bid to combat illegal wildlife trafficking

UWEC
UGANDA WILDLIFE EDUCATION CENTRE

<ZOOHACKATHON>
END LOOP: Coding to end wildlife trafficking

ASSOCIATION OF ZOOS & AQUARIUMS

CONSERVATION X LABS

Team CheeTrack

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Name	Role	Email	Phone	URL
Lutaaya Shafiq	Developer /AdWords Strategist	info@ronzag.com	+256702772721	zoohackathon.ronzag.com
Marvin Alinaitwe	UX / UI Designer	malinaitwe10@gmail.com	+256706860763	zoohackathon.ronzag.com
Princess Kamaliza	Wildlife Conservationist	rkamaliza@uwec.ug	+256784147027	zoohackathon.ronzag.com
Anthony Kagoro	Wildlife Conservationist	anthony.kagoro@gmail.com	+256772640228	zoohackathon.ronzag.com
Habib Sentongo	Telematics / Developer	habibsentongo@gmail.com	+256752401173	zoohackathon.ronzag.com
Shamirah Nantale	Material Design Specialist	shamirah280@gmail.com	+256702946717	zoohackathon.ronzag.com
Phillip	Wildlife Conservation	philkat33@gmail.com	+256703321184	zoohackathon.ronzag.com
Econi Roy	Conservationist	econiroy1994@gmail.com	+256784827313	zoohackathon.ronzag.com
Richard Bagyenyi	Conservationist	richard@ctph.org	+256700720997	zoohackathon.ronzag.com
Julius K Kasigwa	Conservationist	juliuskasigwa@gmail.com	+256772453595	Zoohackathon.ronzag.com

Problem Statement

More than three hundred Cheetahs are illegally traded annually around the world especially in the Horn of Africa to the Gulf States.

In Numbers:

300 cheetah trafficked annually

Why the Cheetah

- Highly endangered.
- High monetary value in the pet-trade.
- Prestige and high social status to own as a pet.
- Highly Sensitive and difficult to keep in captivity.

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The Digital Solution: CheeTrack

- Use Artificial Intelligence, Machine Learning ,and API's technology to monitor Cheetahs both in legal and non-legal captivity in order to enhance the DNA data-bases already in use.

- Enable easy monitoring of on-line trade in cyber-market place and social media.

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Why Artificial Intelligence, Machine Learning and API's

- Enable real time tracking hence reducing on the cumbersome processes of extensive paperwork and expensive highly technical scientific procedures.
- complimenting DNA data- compiled with more in-put sources like individual marker of the animals from photography and video technology.
- Mobile application which is easy to use any where and by anybody hence reducing on exposure to danger and time spent on collecting samples for identification- (reducing on need for special skills).
- Enable to track animals in the wild and non-legal captive centers in order to compile a data base for identification.

Proposed Financing

- Funding from Coalition Against wildlife Trade (CAWT) which is a Private Public Partnership.
- Cheetah Conservation Fund (CCF) which has a long track record on fighting illegal trade in Cheetah pet-trade and is developing a DNA data-base.

Demo 1: Tracking Dashboard with statistics on Cheetahs in Africa

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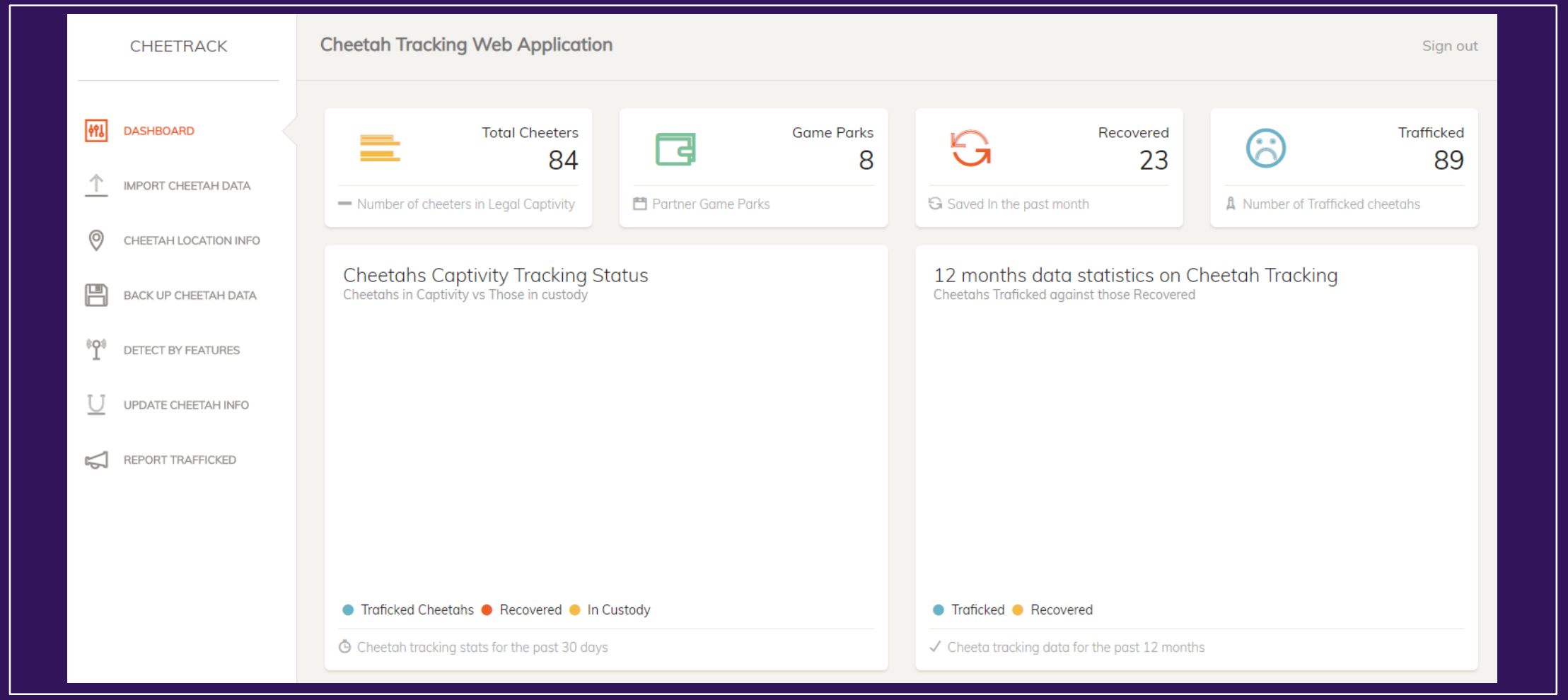

The software helps the user visualize the statistics of the data on cheetahs being tracked in form of graphs, pie charts and line graphs.

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Demo 2: Tracking cheetahs using GPS technology

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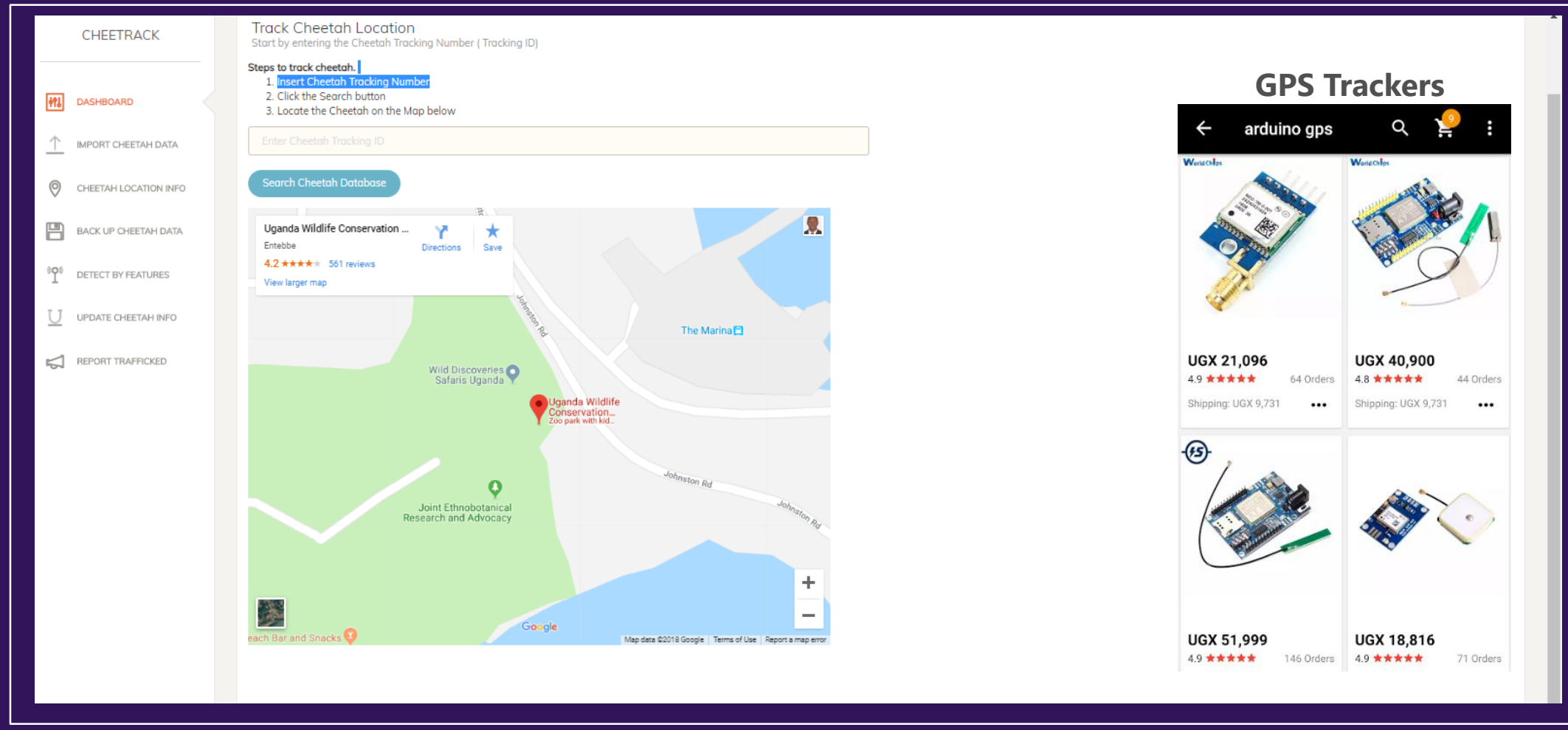

We use the Google Maps APIs with GPS Tracking to track the cheetahs in real time

Demo 3: Machine Learning Algorithm to identify individual cheetah

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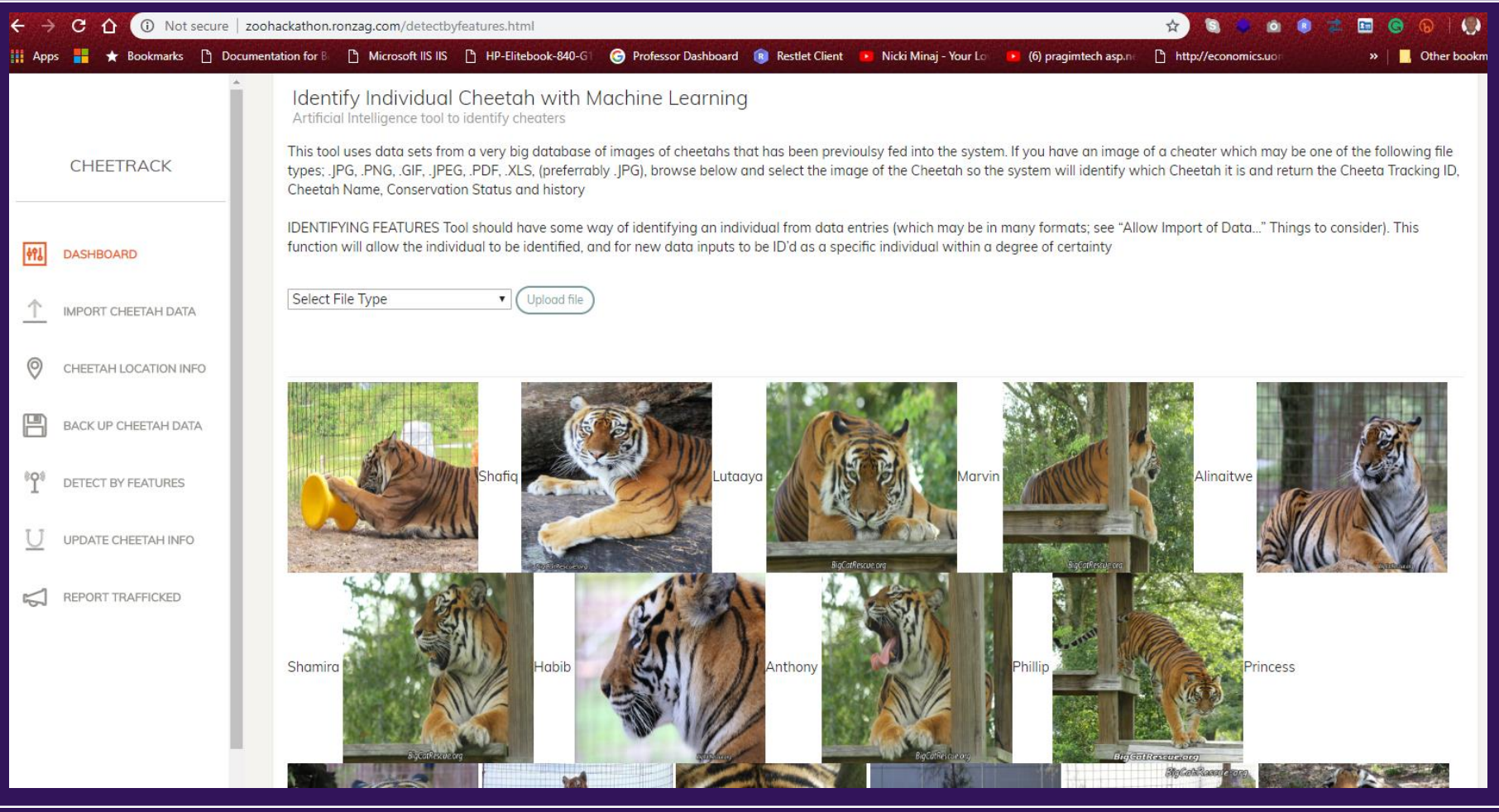

A life history for an individual cheetah can be created with input from several sources especially image data sets with artificial intelligence

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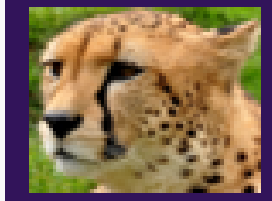

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Using digital tools to combat illegal cheetah trafficking

The End