



UMPSA students create GebuAdopt, a Digital Platform to support pet adoption process

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PEKAN, 25 August 2025 – The idea for the development of GebuAdopt, a web-based platform to strengthen the pet adoption process in Malaysia, was sparked by observations of the increasing number of stray animals in local communities.

The research was conducted by a group of students from the Faculty of Computing (FK), Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), led by Norakilah Mohd Yunos, together with Muhammad Irfanuddin Shaharin and Azfar Irfan Asri, under the guidance of FK Consulting Fellow, Nurul Syafiqah Zaidi.

The research also received collaboration from a local animal shelter for feedback and user testing purposes.

The research began in early 2024 and was completed in October 2024 as a final year project, and GebuAdopt now exists as a functioning prototype.

According to Norakilah, she observed that the increasing number of strays in the community was due to the absence of a centralised system that could connect shelters with individuals interested in adopting animals.

GEBUADOPT: AN INNOVATIVE ONLINE PLATFORM
FOR ANIMAL ADOPTION

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<https://gebuadopt.com>

PRODUCT BACKGROUND

GebuAdopt is a website that helps people adopt pets and report lost animals. It was created to solve problems faced by animal shelters in Malaysia, like outdated websites and low online exposure.

- With GebuAdopt, users can:
 - View adoptable cats and dogs
 - Report missing pets
 - Get shelter info easily



Shelters can update pet info, and admins manage the system. This system was designed based on feedback from users and Cat Tiram Shelter.

STATE OF ART / METHODS

ADOPTION FLOW



COST ANALYSIS

Before development

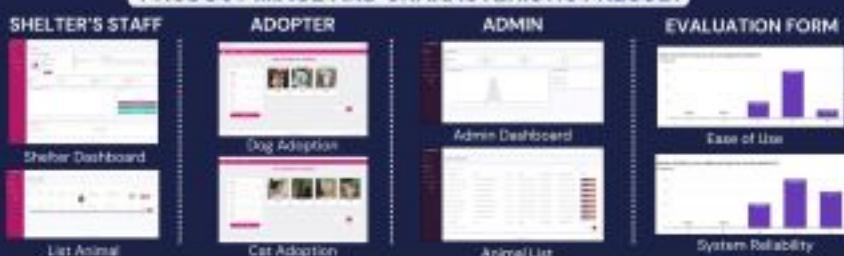
- Development Tools (Free)
 - Visual Studio Code
 - MySQL
 - Figma (Free Plan)
 - Drawio
- Cost
 - Domain: Hostinger (RM40/year)

After development

Source	Description	Estimated Contribution
Shelter Contribution	After approval, shelters pay for yearly fee	RM20/year
Donation During Adoption	User can donate when submitting adoption applications.	User's decision
Sponsor a pet	User "sponsor" a specific animal	User's decision
General Donations	Donate anything	User's decision



PRODUCT IMAGE AND CHARACTERISTIC / RESULT



ENVIRONMENTAL IMPACT

GebuAdopt supports the **Life on Land SDG** by helping people adopt pets responsibly, reducing the number of stray animals, and connecting communities with animal shelters.



USEFULNESS / APPLICABILITY

- For Adopters (Public Users)
 - Easily browse adoptable pets anywhere
 - View pet profiles with images, health status, and age
 - Submit adoption applications directly through the website
 - Report or search for lost pets using the Lost & Found feature
 - Receive updates via email on application status
 - Gives feedback and Ratings on shelter
- For Shelter Staff
 - Manage pet listings (add, edit, remove animals) through a user dashboard
 - Receive and review adoption applications in one place
 - Approve or reject adoption applications directly
 - No need for manual record keeping or updating social media manually
 - Save time and improve public communication

NOVELTY/ORIGINALITY/INTENTIVENESS

Lost Pet Report System

- Users can report and search for lost pets directly on the website.
- Verified Shelter Only
- Only trusted shelters can register, no random users, no scams.
- Shelter Dashboard
- Each shelter gets a dashboard to manage pets and adoption requests

STATUS OF INNOVATION

- Product Development / Market Readiness
 - Functional prototype completed.
 - Fully developed front-end & backend.
 - Ready for deployment with minor enhancements.
- TRL Level (Technology Readiness Level)
 - TRL 6: System tested in real environment with shelter and user feedback.
 - Can reach TRL 7 after full public deployment.
- Functionality of Product
 - Responsive interface (desktop)
 - Functional login & signup for all roles
 - CRUD operations for pets and shelters
 - Email notification system
 - Admin approval for shelter registration

MARKETABILITY

This system can be marketed to:

- Local animal shelters (private & NGO)
- Animal welfare groups and volunteers
- Municipal councils managing stray control programs
- Tech or charity sponsors looking to support animal welfare

“This platform allows registered animal shelters to upload lists of animals available for adoption, complete with details such as species, age, and health status.

“Potential adopters can filter searches, submit applications directly, and use the lost-and-found feature to report missing animals,” she said.

She added that each user, whether shelter, administrator, or adopter, also has a dedicated dashboard to ensure smooth and safe use.

“The main objective of this research is to create a trusted national digital hub for adoption, thereby reducing the number of stray and re-abandoned animals.

“For the industry, GebuAdopt can resolve the problem of inefficient shelter management systems, while for the community, it offers a more structured and transparent adoption process.

“For now, there are preliminary proposals to expand the platform’s functions in the future, including developing a mobile app, collaborating with more shelters, providing donation and sponsorship features, adding multilingual support, and working with veterinary clinics, NGOs, and pet brands for post-adoption support,” she explained.

The estimated basic development cost of this platform is around RM3,800 per year, covering equipment, hosting, and maintenance, though this figure remains at an early estimation stage.

They also hope this project can be expanded into a fully operational platform accessible via web and mobile app, with a target of more than 100 registered shelters, real-time lost animal maps, and a sustainable ecosystem through sharing, donations, and community involvement.

This research won a gold medal at the Creation, Innovation, Technology and Research Exposition (CITREX) 2025, organised by Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) on 18 to 19 June 2025 at the UMPSA Sports Complex Hall, Gambang Campus.

In addition, this research won a gold medal and Top 20 Finalist at the FYPROM-COM Exhibition 2025.

Most recently, the team was also one of three groups representing UMPSA in the Third Season Innovathon Audition, an initiative under the Ministry of Economy and the Ministry of Science, Technology and Innovation (MOSTI) in collaboration with ASTRO, held on 4 and 5 August 2025 at Universiti Malaya (UM), Kuala Lumpur.

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