**Virtual Pet Assistant**

**Course Code & Name: CSC301 – Seminar**

**Prepared by**:

**Aryan Arora (22CSU031)  
Aryan Pawar (22CSU030)  
Ashish Mehta (22CSU035)  
Arinjay Bhola (22CSU026)**

**Instructor: Dr. Swati Gupta**

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**THE NORTHCAP UNIVERSITY  
Gurugram, India**

# Introduction

* **Brief overview of the report topic:**This report presents the development of a web-based Pet Care Assistant — an informational platform offering guidance, tips, and techniques for caring for various pets.
* **Purpose and objectives of the report:**The aim is to create a responsive, user-friendly website to assist pet owners with well-structured content, including feeding, grooming, training, and health advice.
* **Scope and limitations:**The website focuses on static and dynamic content delivery, categorized articles, and user experience features. It does not include interactive simulations or e-commerce capabilities.
* **Significance of the study:**The platform helps bridge the knowledge gap for new or existing pet owners, promoting responsible pet ownership and animal welfare.

**Background / Literature Review**

* **Relevant background information:**  
  Many pet owners rely on scattered sources for pet advice, often leading to misinformation. A centralized, reliable source can significantly improve care practices.
* **Key findings from past research or studies:**  
  Studies highlight that digital platforms contribute positively to pet care education when they present validated and structured information.
* **Theoretical framework and models:**  
  The site is designed based on information architecture principles, responsive design theory, and content accessibility standards.
* **Recent advancements in the chosen field:**  
  Content-driven pet websites have increased with the use of CMS platforms and front-end technologies that enhance readability and navigation.

**Research Methodology**

* Data collection methods:  
  Content was curated from verified veterinary websites, blogs, and expert interviews. Feedback was gathered through user testing and peer review.
* Tools and techniques used:

Frontend: HTML, CSS, JavaScript, React

Backend: Node.js, Express.js (for login/contact form, Saving And Fetching Dog Profiles)

* + Sampling and data sources:  
    Sample users included classmates, pet owners, and family members who reviewed usability and content clarity.

**Findings & Analysis**

* **Summary of key findings:**The website is functional, visually appealing, and offers clearly categorized pet care information. It includes sections for dogs, cats, birds, and small pets.
* **Interpretation and discussion:**Users appreciated the organized layout, dark mode toggle, and easy-to-understand tips. The contact form allowed for basic interaction and feedback collection.
* **Comparisons with previous research:**The site stands out by ensuring simplified language, structured layout, and mobile responsiveness, which many existing pet care websites lack.

**Conclusion & Recommendations**

* **Summary of key findings:**The project achieved its goal of creating a helpful, accessible informational platform for pet care**.**
* **Implications and practical applications:**Can be used by new and experienced pet owners, shelters, and schools for educational purposes.
* **Limitations of the study:**No user-generated content or live vet consultation features. Content is manually added and not dynamically pulled from APIs.
* **Future research directions:**

Add blog and Q&A system

Integrate vet appointment features

Expand to include exotic pets and multilingual content

**References**

* W3Schools & MDN – Web Development Documentation
* FreeCodeCamp – Full Stack Development with Node.js
* Prepinsta- Javascript , Mern Stack Course