

o The Aero project aims to create a website for showcasing adoptable animals and connecting them with potential adopters. – Architectural design is responsible for defining the system's structure and its various components. – Designing a database involves creating the database's layout and arranging the data and connections within it. – User interface design concentrates on developing an interface that is easy to use and visually pleasing, which involves planning the layout, arranging elements, enhancing user experience, and designing visually appealing features.

Systems Analysis Questionnaire: The survey conducted by Aero revealed insights into the need for the website, with a majority of young participants showing interest in pet ownership. – Designing a database includes creating the database's structure and arranging data and connections within it. – User interface design focuses on developing an interface that is both easy to use and visually attractive.

Functional requirements include user registration, animal listings, search and filtering, adoption applications, review and approval processes, adoption status tracking, donation and payment processing, and contact and support. Non-functional requirements focus on user interface, responsiveness, performance and scalability, security, accessibility, social media integration, maintenance and support, and performance analytics.

o Comprehensive pet care is a focus of Aero, including access to medical consultations through the website for quick and convenient professional advice

This chapter introduces the system analysis phase, crucial in understanding the requirements and limitations of the system to be developed. – Utilize visual components like graphics, colors, and icons strategically to improve the beauty and user-friendliness of the system.

o Animal welfare associations in Saudi Arabia play a crucial role in rescuing stray animals and promoting animal rights and welfare. Using the example of Aero, a website facilitating animal adoption, it outlines the data collection process through a detailed questionnaire aimed at gathering information about available animals.

System Design: This section presents the design of the proposed system through flowcharts and use case diagrams, illustrating interactions between users and the system

Chapter 4 delves into system design following the conclusion of the requirements analysis stage. – The aim of user interface design is to develop a visually appealing and user-friendly interface that fulfills user requirements.

o The literature review helps categorize relevant studies and identifies areas where the literature may be lacking.