A lion lying on a rock

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A black circle with white text and an elephant

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**PROJECT PLAN**  
  
  
Milan Milanov – 481476

Toni Hristov – 503357

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A sea turtle swimming in the water

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# Project Definition

Zoo Bazaar is on the brink of unveiling its eagerly anticipated new zoo, nestled in the vibrant city of Eindhoven. As the countdown to its grand opening in February commences, meticulous preparations are underway, including the development of a sophisticated software solution that will play a pivotal role in realizing the zoo's objectives.

At the core of this project lie two overarching objectives. The first centers around the comprehensive management of the zoo's diverse array of animals and their respective habitats, while the second entails the efficient administration of the workforce and the orchestration of employee schedules.

Within the zoo's confines, its animal inhabitants span various categories, types, and breeds, each requiring specific accommodations within their designated enclosures. This entails the creation of tailored schedules for feeding and administering necessary medications, ensuring that each animal receives the utmost care and attention.

In tandem with the animal care domain, Zoo Bazaar operates with a dedicated team of four distinct employee categories: Administrators, HR personnel, Veterinarians, and Caretakers. Each employee is assigned a unique set of responsibilities and a personalized schedule tailored to their role within the zoo's operations. The management of these schedules stands as a significant undertaking, as Zoo Bazaar places a premium on maintaining a transparent and organized framework to facilitate smooth employee transitions. This meticulous scheduling approach also affords the zoo the ability to promptly determine its staffing requirements, a feature that will undoubtedly enhance overall operational efficiency.

# Client

Ocean View is going to be a new diving center located in Athens, Greece

The diving center is going to open doors on 30.01.2024.

Contact Person: Raja Gorentla

Email: r.gorentla@fontys.nl

Phone number: +30 1231234567

# Project Team

The project will be developed by two talented full stack developers

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**DEVELOPER:**

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# Current situation

Currently, there are no zoos in Eindhoven, unlike many other cities in the Netherlands. Zoo Bazaar aims to change that by opening its doors in early February. To help run the zoo smoothly, they need a special computer program. Some other zoos in the country don't have good computer programs to keep things organized. That's why our team is working hard to create a fast and efficient software solution that meets all of Zoo Bazaar's needs and requirements. Our goal is to make sure everything runs well, and Zoo Bazaar becomes a top-notch zoo in the Netherlands.

# Problem Description

Zoological institutions encounter a myriad of operational challenges that demand efficient management and coordination. These encompass diverse facets, including the care and health management of a wide array of animals with distinct needs, the intricate task of employee scheduling across various roles, resource allocation optimization, enhancing visitor experiences through ticketing and interactive exhibits, effective inventory and procurement management, maintaining comprehensive animal records and conservation data, ensuring safety and security, managing revenue streams, and adhering to stringent regulatory compliance standards. The absence of a centralized and integrated system to address these challenges often leads to inefficiencies, increased operational costs, and a less-than-optimal visitor experience. Therefore, the implementation of a robust software solution is imperative to streamline operations, enhance animal care, and bolster the overall effectiveness of zoological institutions, contributing to their long-term success and sustainability. This project aims to design and deploy a tailored software solution to meet these specific needs, offering zoos an integrated toolset to address these challenges and elevate their performance in delivering educational, conservation, and recreational objectives.

# Project Goal

The project goal is to create a reliable and user-friendly website for all the employees of Zoo Bazaar and a perfect desktop application for the administration. To ensure that all the animals have been taking care of and all problems could be solved and reported easily. We want to make sure we reach all the client requirements and deliver a system that has taken care of each small detail.

A giraffe with a black background

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# Client requirements

TEAM – Zoo Baaar

ZOO BAZAAR

VETERIARS

CARETAKERS

HR

ADMINISTRATION

* ADMINISTRATION
  + - ADD/REMOVE/EDIT all types of employees.
    - Check all information of all types of employees.
    - ADD/REMOVE/EDIT all types of animals.
    - ADD/REMOVE/EDIT cages of animals.
    - Assign/Unassign animals from cages.
    - Move animal to different cage.
    - ADD/REMOVE/EDIT the different sectors of the zoo.
    - Assign/Unassign employee to a zoo sector
    - Changing employee’s position. (HR, Caretaker, Vet)
    - Check customer’s information.
    - Add/Remove customers.
    - Edit customer information – partly.
    - Ordering supplies for the animals – medications and food
* Human Resources
  + - Make the planning for feeding of animals.
    - ADD/REMOVE/EDIT feeding plan.
    - Schedule monthly medical checks for each animal.
    - Organizing and managing the supplies ordered by the administration.
    - Organizing the moving/taking out animals of cage each day
* Caretakers
  + - Feed animals based on the given schedule.
    - Report any medical problems with the animals.
    - Check feeding schedule.
    - Multiple sector option (could be assigned to more than one sector, but each shift is in one of the selected sectors)
    - Check their own shifts/schedule.
    - Report for shift absence/unavailability.
    - Get announcements/notifications when there is a task he should do (feed animal/take out/move/check)
    - Move animals daily based on their taking out schedule from HR.
* Veterinary
  + - Keep a medical card/report of each animal.
    - ADD/REMOVE/EDIT all animals medical card/report.
    - Check all animals medical card/report.
    - Preform the monthly medical check assigned by HR.
    - Have appointments with sick animals.
    - Assign medicals for animals.
    - Put a request for specific medicament so that Administration can order it.
    - Report animal availability.
    - Vaccination

CUSTOMERS – ZOO VISITORS

CUSTOMERS

ZOO VISITORS

GROUP VISITORS

* Zoo Visitors
  + - Book a zoo tickets.
    - Monthly subscription.
    - Get notifications for upcoming events/news.
    - Get notifications for new animals.
* Group visitors
  + - Based on how big the group is, get a discount
    - Could book a caretaker for a better explaining of animals.
    - Could feed/pet some animals with care takers. (Not all of them only the ones that HR said it is okay). This is an extra attraction.

# MoSCoW

TEAM - OCEAN VIEW

* ADMINISTRATION

|  |  |  |
| --- | --- | --- |
| 1 | ADD/REMOVE/EDIT all types of employees. | MUST |
| 2 | Check all information of all types of employees. | MUST |
| 3 | ADD/REMOVE/EDIT all types of animals. | MUST |
| 4 | ADD/REMOVE/EDIT cages of animals. | MUST |
| 5 | Assign/Unassign animals from cages. | SHOULD |
| 6 | Move animal to different cage. | SHOULD |
| 7 | ADD/REMOVE/EDIT the different sectors of the zoo. | SHOULD |
| 8 | Assign/Unassign employee to a zoo sector | SHOULD |
| 9 | Changing employee’s position. (HR, Caretaker, Vet) | COULD |
| 10 | Check customer’s information. | MUST |
| 11 | Add/Remove customers. | COULD |
| 12 | Edit customer information – partly. | COULD |
| 13 | Ordering supplies for the animals – medications and food | SHOULD |

* HR

|  |  |  |
| --- | --- | --- |
| 1 | Make the planning for feeding of animals. | MUST |
| 2 | ADD/REMOVE/EDIT feeding plan. | SHOULD |
| 3 | Schedule monthly medical checks for each animal. | COULD |
| 4 | Organizing and managing the supplies ordered by the administration. | SHOULD |
| 5 | Organizing the moving/taking out animals of cage each day | COULD |

* Caretakers

|  |  |  |
| --- | --- | --- |
| 1 | Feed animals based on the given schedule. | MUST |
| 2 | Report any medical problems with the animals. | MUST |
| 3 | Check feeding schedule. | MUST |
| 4 | Multiple sector option (could be assigned to more than one sector, but each shift is in one of the selected sectors) | COULD |
| 5 | Check their own shifts/schedule. | MUST |
| 6 | Report for shift absence/unavailability. | COULD |
| 7 | Get announcements/notifications when there is a task he should do (feed animal/take out/move/check) | SHOULD |
| 8 | Move animals daily based on their taking out schedule from HR. | COULD |

* Veterinary

|  |  |  |
| --- | --- | --- |
| 1 | Keep a medical card/report of each animal. | MUST |
| 2 | ADD/REMOVE/EDIT all animals medical card/report. | MUST |
| 3 | Check all animals medical card/report. | MUST |
| 4 | Preform the monthly medical check assigned by HR. | SHOULD |
| 5 | Have appointments with sick animals. | SHOULD |
| 6 | Assign medicals for animals. | COULD |
| 7 | Put a request for specific medicament so that Administration can order it. | COULD |
| 8 | Report animal availability. | COULD |
| 9 | Vaccination | SHOULD |

CUSTOMERS

* Zoo Visitors

|  |  |  |
| --- | --- | --- |
| 1 | Book a zoo tickets. | MUST |
| 2 | Monthly subscription. | COULD |
| 3 | Get notifications for upcoming events/news. | SHOULD |
| 4 | Get notifications for new animals. | SHOULD |

* Group visitors

|  |  |  |
| --- | --- | --- |
| 1 | Based on how big the group is, get a discount | MUST |
| 2 | Could book a caretaker for a better explaining of animals. | COULD |
| 3 | Could feed/pet some animals with care takers. (Not all of them only the ones that HR said it is okay). This is an extra attraction | COULD |

# Deliverable

* Beautiful and user-friendly website for the employees of Zoo Bazaar
* Good working environment for Zoo Bazaar’s team in a desktop application
* Good structure of the database
* Beautiful and user-friendly website for the customers of Zoo Bazaar.
* Full Documentation of the project

# Non-deliverables

* Breeding system of animals

# Constrains

Work force: 200 workers

Initiation: 4th September 2023

Deadline: 30th January 2024

Budget: 1 000 000 euros

SYSTEM: C# .NET

# Risk Analysis

For every system there are some risks containing in the project. For us the biggest risk will be the taking care of animals. The animals of course are main priority of the zoo, so they need to be taken care of properly. That is why we will make special care this won’t happened in our system and there is 0 lacking in that area.   
Of course, as every single project the other biggest problem will be the time management and delivering every single requirement of the client.

An elephant with a trunk up

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# Phasing

This is a very big project that will be built in the next 5 months. It is a short time for such a big project, but with good planning and time management there should be no problem to reach all the client’s requirements.

* September 2023 – finished documentation and planning.
* September 2023 – finished registration of animals, creating the employees accounts.
* October 2023 - finished animals
* October 2023 - finished employee accounts
* October 2023 – finished cages and sectors of the zoo
* October 2023 – first version of website design
* November 2023 – finished administration and HR
* November 2023 – finished calendar with availability and schedule for the employees.
* November 2023 – second version of website.
* December 2023 – finished desktop application
* December 2023 – finished website
* January 2024 – fixing issues and details
* A tiger lying in the grass

  Description automatically generatedJanuary 2024 – testing
* January 2024 – finish of the whole software system