

<VietKoiExpo>

Software Requirement Specification

Project Code: Koi Show Management System

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SIGNATURE PAGE

GROUP 2:

LEADER: Nguyễn Hữu Hiển SE180274 Back-End

TEAM MEMBER:

Lê Hữu Thành Tín SE180481 Front-End

Đoàn Vĩnh Nguyên SE180483 Front-End

Nguyễn Trường Sang SE180397 Back-End

Trần Hoàng Nhật Minh SE180461 Back-End

TABLE OF CONTENTS

[1 Introduction 5](#_Toc461102219)

[2 Overall Description 7](#_Toc461102225)

[3 FUNCTIONAL Requirements 8](#_Toc461102226)

[4 NON-FUNCTIONAL Requirements 10](#_Toc461102230)

[5 Supporting Information 13](#_Toc461102242)

# Introduction

This Software Requirement Specification (SRS) defines the functionality, behavior, and design constraints for the Koi Fish Exhibition Contest Management System (KoiCMS). This system will facilitate the organization and management of Koi fish exhibitions, handling participant registration, contest management, and result calculations. It will support both online and offline contest formats.

KoiCMS is designed for the organizing unit of Koi competitions to streamline competition processes such as event management, Koi registration, automatic classification into contest categories, result calculation, and statistical reporting. This SRS covers the entire system, focusing on user interaction through a web interface.

* CMS: Content Management System
* KoiCMS: Koi Fish Exhibition Contest Management System
* Admin: System administrator responsible for managing the contest.
* User: General user who can browse contest information and register Koi for competitions.
* Judge: Official who scores Koi in competitions.

References:

Kodama Koi Show: [<https://kodamaKoishow.com>]

This document covers the detailed requirements for KoiCMS. Section 2 provides an overview of the system, while Sections 3 and 4 specify the functional and non-functional requirements, respectively.

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Business rules

|  |  |  |
| --- | --- | --- |
| Business Rule ID | Business Rule Description | Type |
| BR-01 | The system must display general information about the Koi competition, including prizes, rules, judging criteria, and news updates. | Informational |
| BR-02 | Users must be able to search for ongoing, upcoming, and past competitions. | Functional |
| BR-03 | Participants must register for an account to enter Koi fish into the competition. | Functional |
| BR-04 | Users must create a profile for their Koi fish that includes details such as variety, size, and age before entering the competition. | Functional |
| BR-05 | The competition can be conducted in either an online or offline format, with rules defined for each format. | Operational |
| BR-06 | Koi fish entries must undergo an approval process after registration before being eligible for competition. | Procedural |
| BR-07 | Koi fish must be automatically categorized into competition tiers based on predefined criteria: variety, size, and age. | Automation |
| BR-08 | Judges must evaluate each Koi fish and submit scores based on three primary criteria: 50% body shape, 30% color, and 20% pattern. | Operational |
| BR-09 | The system must calculate the final results based on the highest scores from judges for each Koi fish. | Calculation |
| BR-10 | Users must be able to predict the outcomes of Koi fish participating in the competition. | Predictive |
| BR-11 | The system must provide statistics on competition outcomes, predictions, and Koi fish achievements. | Reporting |

# Overall Description

KoiCMS will allow users to register Koi fish for competitions, view competition details, and allow the admin to manage the entire competition lifecycle. It will support automatic classification of Koi into categories and include dashboards for results and reports.

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# FUNCTIONAL Requirements A diagram of a company Description automatically generated

# NON-FUNCTIONAL Requirements

* The system must be easy to use for admins, users, and judges with clear navigation for managing competitions.
* Task completion for registering Koi and viewing contest details should take no more than 5 minutes.
* System uptime must be 99.9% during contest periods.
* Data consistency must be maintained during Koi registration and result calculation.
* The system should handle up to 1000 concurrent users with response times under 2 seconds for key operations.
* The system should support multiple contests running concurrently and allow easy updates to contest rules.
* The system will be built using web technologies, with compatibility across major browsers.
* Backend system to use relational databases for storing user and competition data.