



<VietKoiExpo>

Project Code: Koi Show Management System

Full Name	Student Code	Role
Nguyễn Hữu Hiến (Leader)	SE180274	Back-End
Lê Hữu Thành Tín	SE180481	Front-End
Nguyễn Trường Sang	SE180397	Back-End
Trần Hoàng Nhật Minh	SE180461	Back-End
Quách Gia Bảo	SE180449	Front-End

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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.

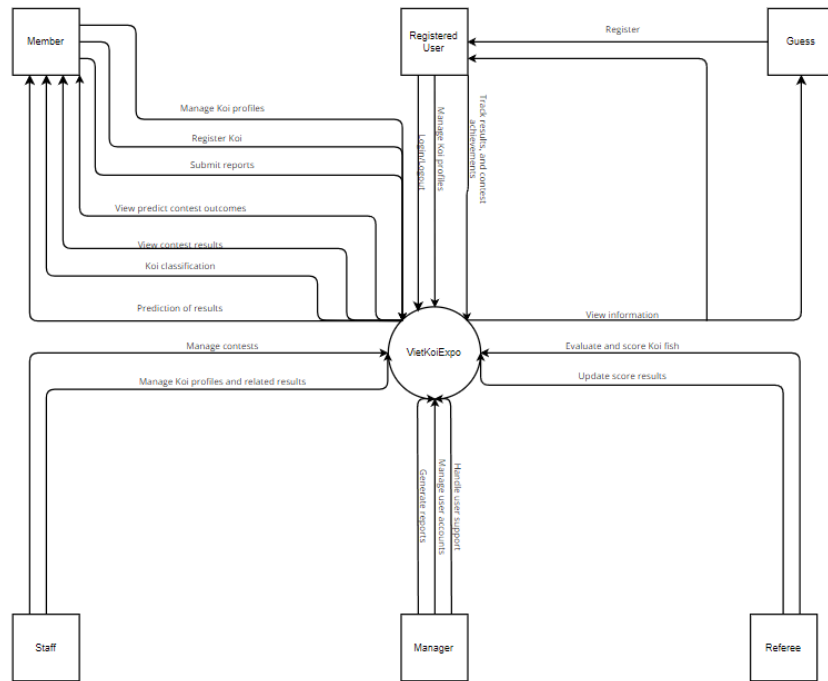
KoiCMS is designed for the organizing unit of Koi competitions to streamline competition processes such as event management, Koi registration, automatic classification into contest categories, result calculation, and statistical reporting. This SRS covers the entire system, focusing on user interaction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

- CMS: Content Management System
- KoiCMS: Koi Fish Exhibition Contest Management System
- Manager: Manages User and Staff activities
- Staff: System administrator responsible for managing the contest.
- User: General user who can browse contest information and register Koi for competitions.
- Referee: Official who scores Koi in competitions.

References:

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

Our vision is to create a website where people can compete with others in the beauty of their koi fish and display it for everyone to admire. We aim to introduce new functions that enhance user interaction and convenience, including interactive features and a robust reward system. By continuously developing and expanding our services, we strive to meet the diverse needs of our customers and become a trusted destination for koi beauty competitions in koi competitions.



Context Diagram for Koi Show Management System

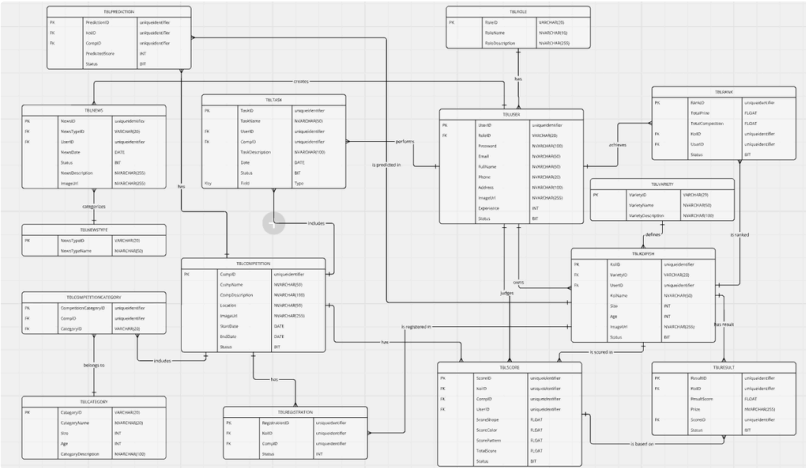
Business rules

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

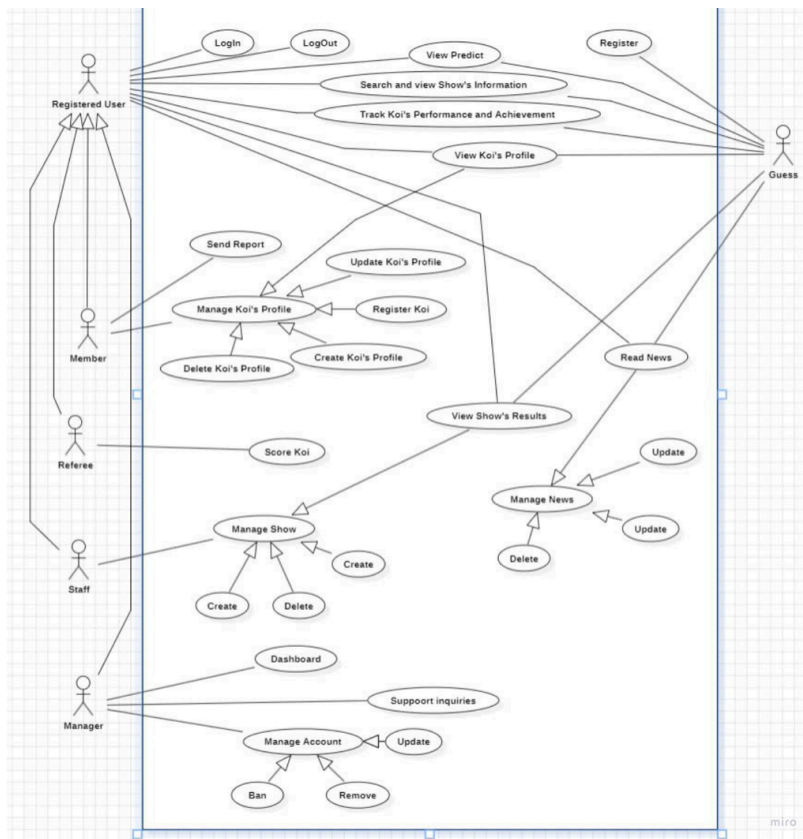
OVERALL DESCRIPTION

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.



ERD for Koi Show Management System

FUNCTIONAL REQUIREMENTS



Use case diagram for Koi Show Management System

Functions:

✓ REGISTER

Email must be in correct format @gmail.com

Password must be at least 8 characters, must contain uppercase letters, must contain numbers

After having an account, if the user wants to upload koi fish and participate in the contest, they must enter the following information: FullName, Phone, Address, Avatar.

✓ LOGIN

Use mail and correct password for account to login

✓ RANK

Ranking of koi fish winning in the competition

✓ MANAGE KOI FISH

Users can upload their koi fish to their profile with Koi Fish Variety, Koi Fish Name, Size, Age, Image. Also they can update, delete their created koi fish

✓ KOI FISH REGISTRATION

User can use their created koi fish to join in the competition

✓ COMPETITION

Allow koi fish to compete to see which one gets the higher score

Koi fish will be classified into categories based on size and age.

The referee will score the koi fish.

✓ REPORT

Users can write reports to managers for support or evaluation

Staff can inform Manager about work progress

✓ NEWS

Stay updated on contest rankings, announcements, information about ongoing and past contests, etc

▼ MANAGE ACCOUNT

Manager can assign an account to staff, referee, or other admins. They can ban or even permanently delete an account if it breaks the rules

▼ SEARCH AND VIEW

Everyone can search, view, follow ongoing competitions, information, news, etc

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.

SCREEN FLOW

