



AQUASPACE

CS48

Meet the Team



Inuri
Gunasekara

19000499



Kalsha
Samarajeewa

19001495



Dilshan
Sankalpa

19000405



Rashmika
Lakshan

19000792


- 
- Advisor : Dr. A. R. Weerasinghe
 - Supervisor : Ms. Gayani Rupasinghe
 - Co-Supervisor : Ms. M. M. A. Devindi



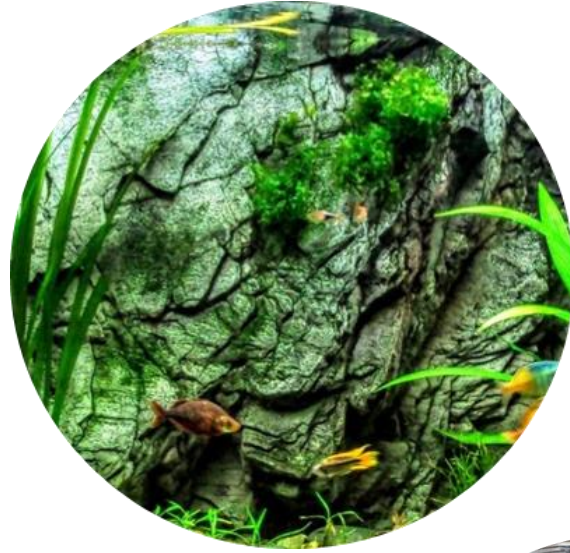
Table of Contents

- 01** The Problem
- 02** Project Description
- 03** Requirements
- 04** Feasibility Study
- 05** Technologies
- 06** Workload Distribution



The Problem

It's easy
to raise
a fish



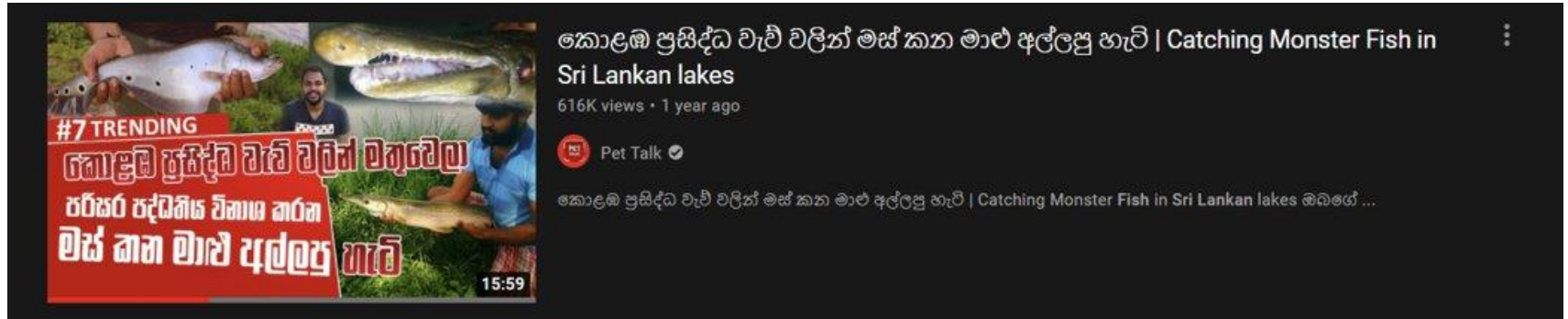
... isn't it?



In Sri Lanka, the hunt is on for alien fish in native lakes

New assessment shows 74% of Sri Lanka's freshwater fish threatened with extinction

by Malaka Rodrigo on 31 July 2020





Survey results

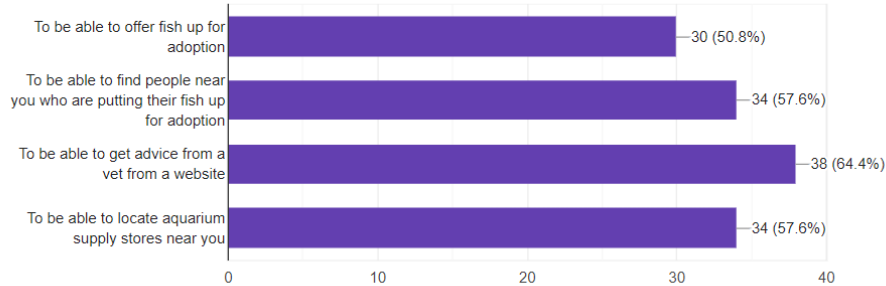
353

Responses

Survey Results

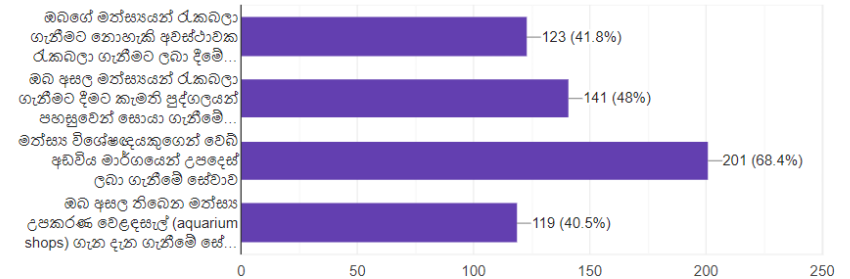
Which of the following features will be most useful for you

59 responses



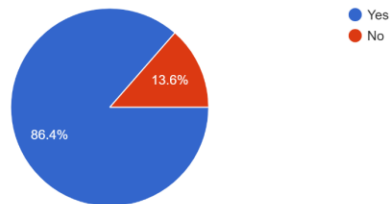
ඔබට වඩාත්ම ප්‍රයෝජනවත් වන්නේ පහත සඳහන් කුමන අංගයන් ද?

294 responses



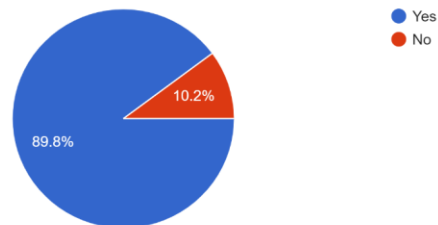
If you are a fish owner, and in the case you can no longer look after your fish, would you be willing to put them up for adoption?

59 responses



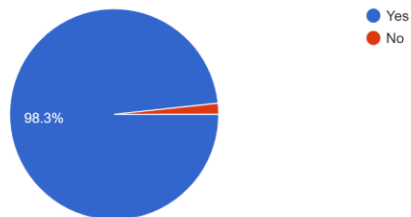
If you are looking to acquire a fish, would you be willing to adopt instead of buy?

59 responses



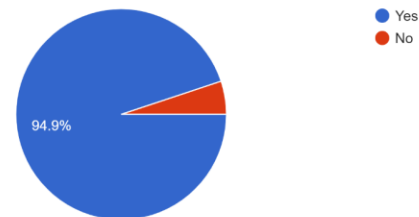
Do you think it would be useful for you to be able to locate stores that offer aquarium supplies near you?

59 responses



Do you think it would be useful if you can locate people near you who are offering their fish up for adoption?

59 responses



The problems

- The community of fish enthusiasts has been spread across several platforms
- Marketplaces do not provide information needed to make the correct decision
- Lack of a centralized information center for basic care instructions
- Abandonment is the easier option when you can't raise a fish
- Adoption is not popular/ not known
- Lack of awareness on cleaning up invasive species



Project Description

Goal

To provide the community of fish enthusiasts and store owners with a platform that allows them to **connect** with each other easily and to provide the community a place to **share** information to save time and money.



Objectives



Connect with other fish enthusiasts near you to sell fish and equipment



A central knowledge base on basic care instructions



Encourage adoption



Encourage the community to clean up invasive species














Existing Systems



Marketplaces



Social Media

	Ikman.lk	Facebook	AquaSpace
Advertise Fish and Aquatic equipment			
Find sellers/ buyers based on location			
Care Information on fish and plants			
Free prioritized posts for adoption			
Rate articles			
Review stores			
Find community events to clean up invasive species			



Scope

In Scope

- A web application
- Users can advertise fish and equipment
- Users can view and rate articles
- Users can view events
- Review stores
- Rate articles
- Payment for creating a post will be done through a sandbox

Scope

Constraints

- No frameworks
- Truthfulness cannot be guaranteed
- Payment for goods will not be handled
- Inquiry cannot be done without registering

Assumptions

- All users will have internet
- All users will have basic English skills
- Users will enter valid details
- Users will constantly check for inquiries

Deliverables

- A Web based application
- User Manual





Requirements

User Identification

01

Guest User

02

Registered User

03

Store Owner

04

Moderator

05

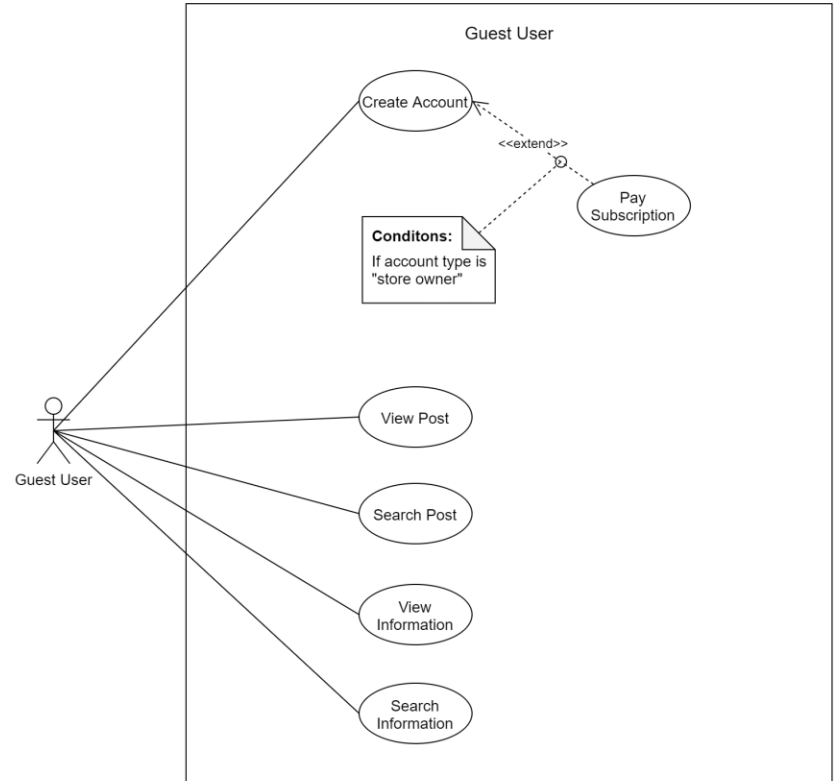
Admin

Functional Requirements

01

Guest User

- View and Search posts
- View and Search articles
- Register



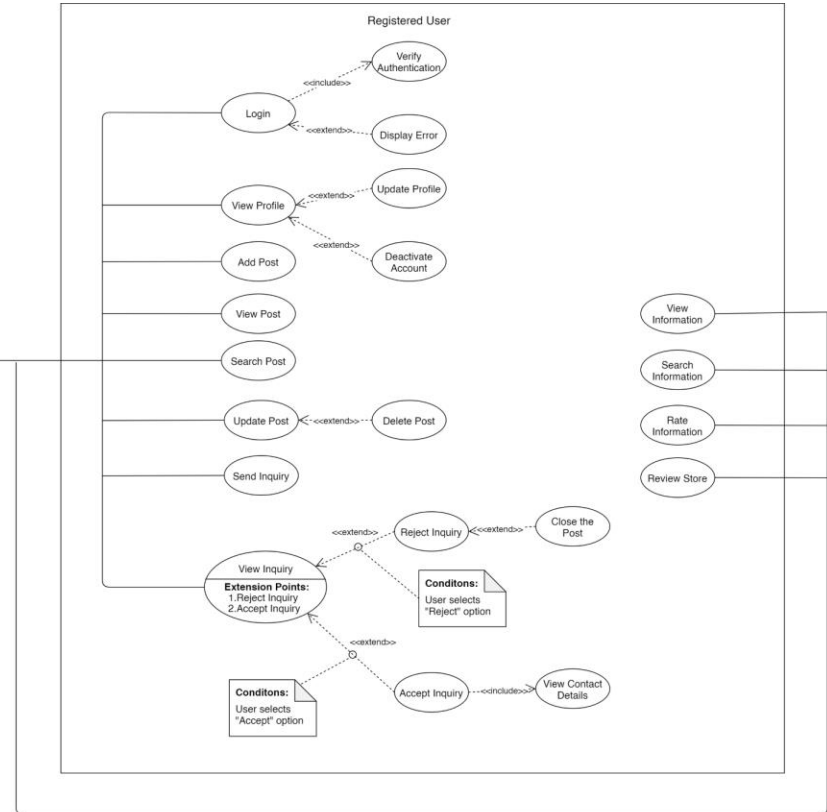
Functional Requirements

02

Registered User

- Add posts
- View and Update profile
- View active posts
- Send and receive Inquiries
- Rate articles
- Review Stores

Registered User

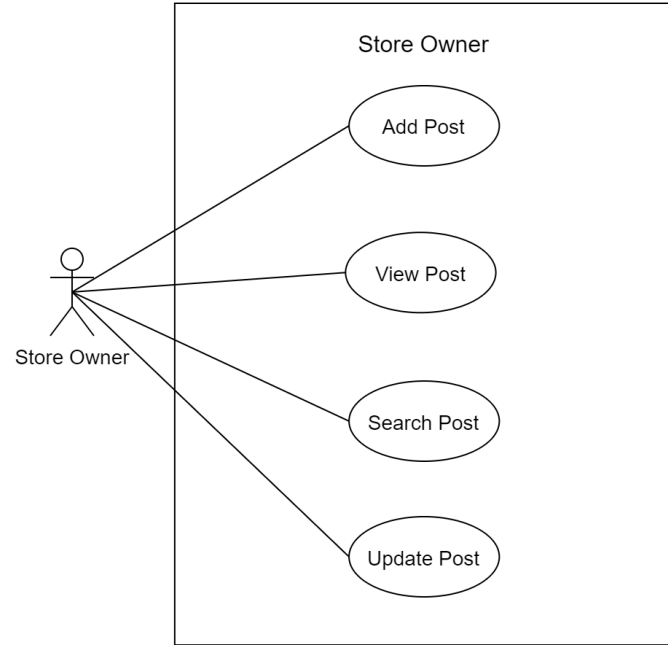


Functional Requirements

03

Store Owner

- Add posts
- View and update profile

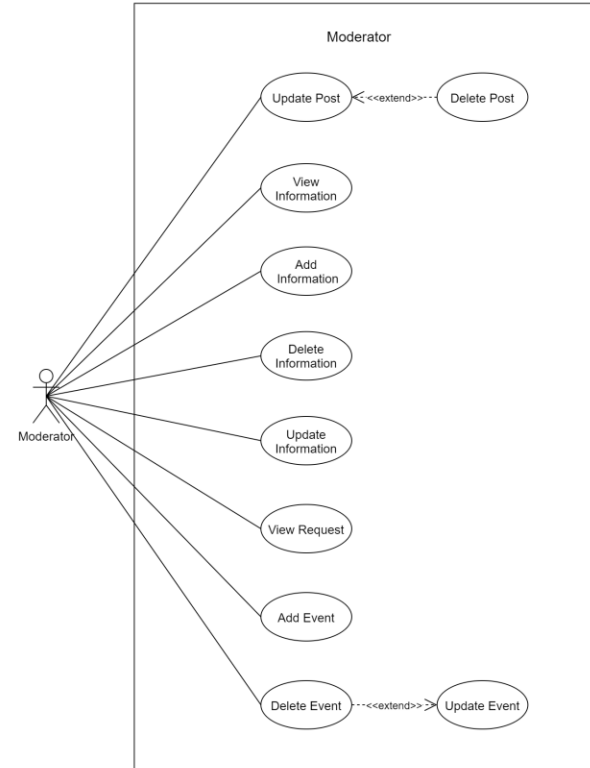


Functional Requirements

04

Moderator

- Add articles
- Update and delete articles
- Add events
- Update and delete events
- Remove posts

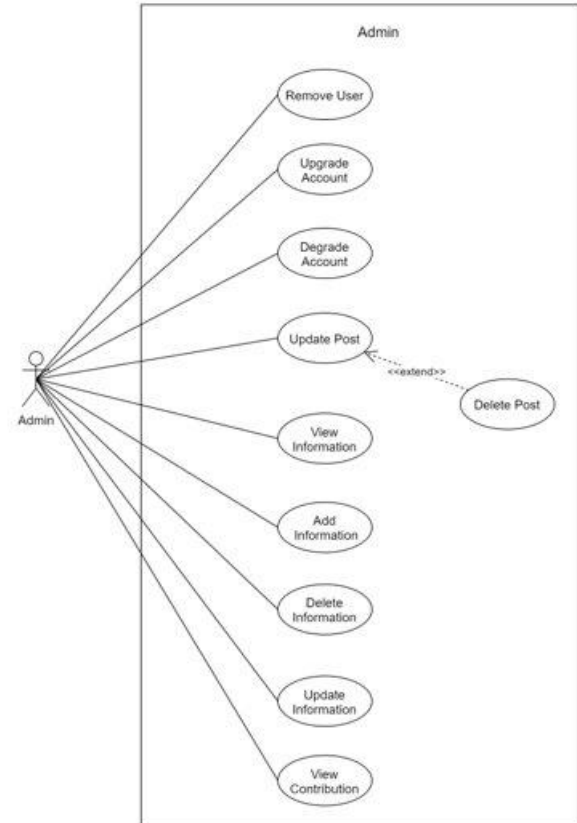


Functional Requirements

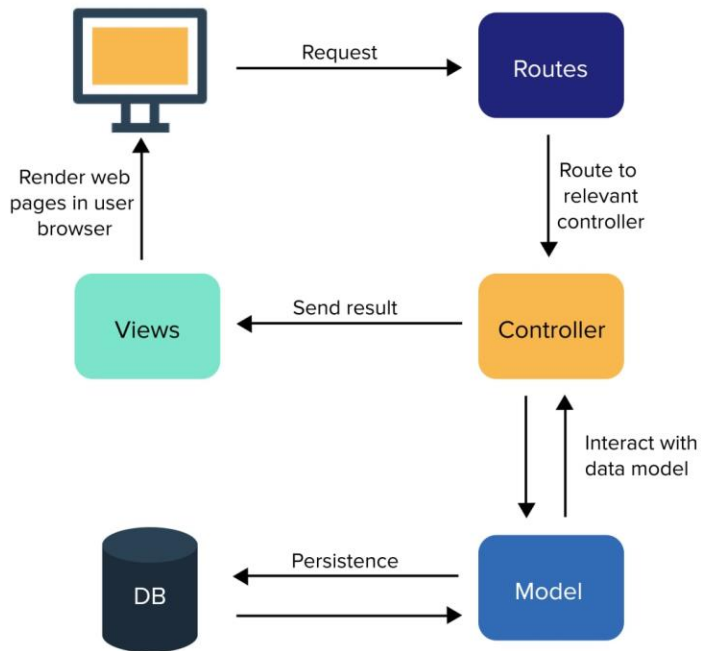
05

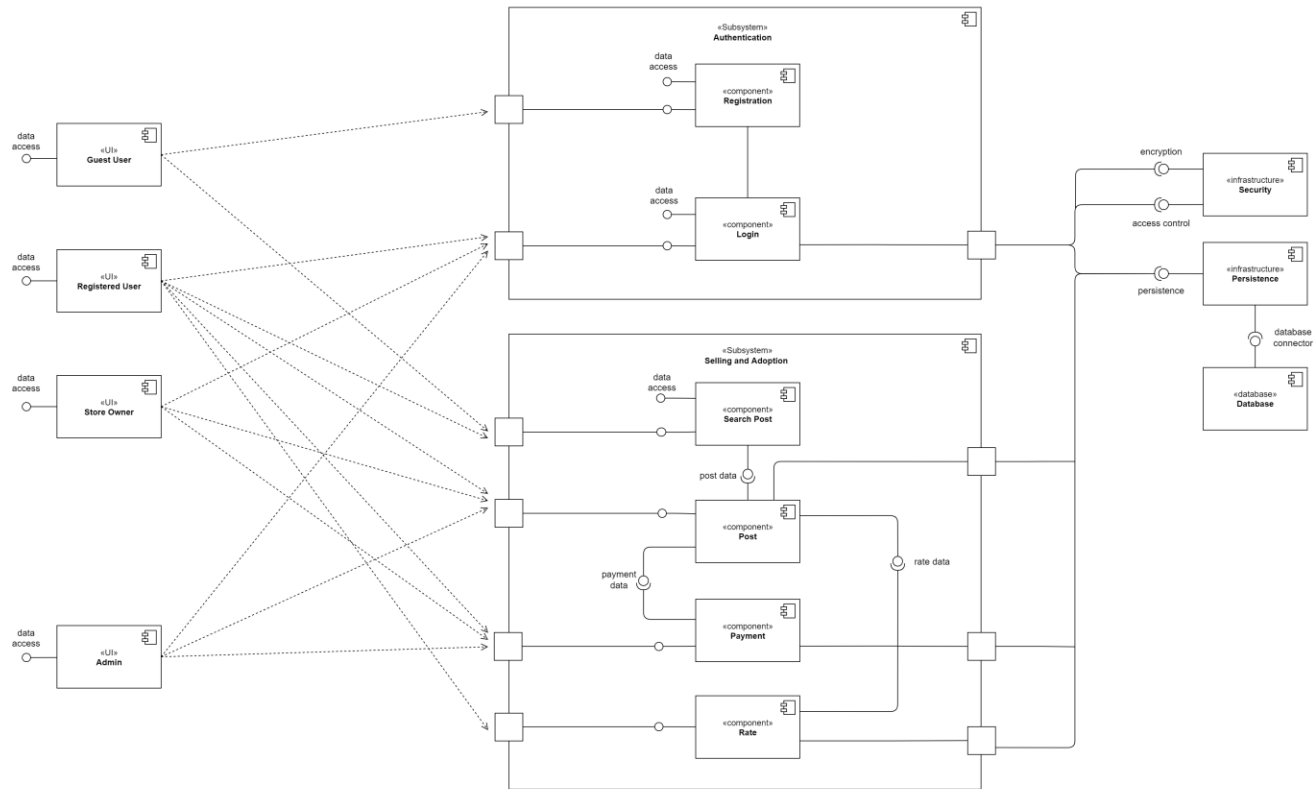
Admin

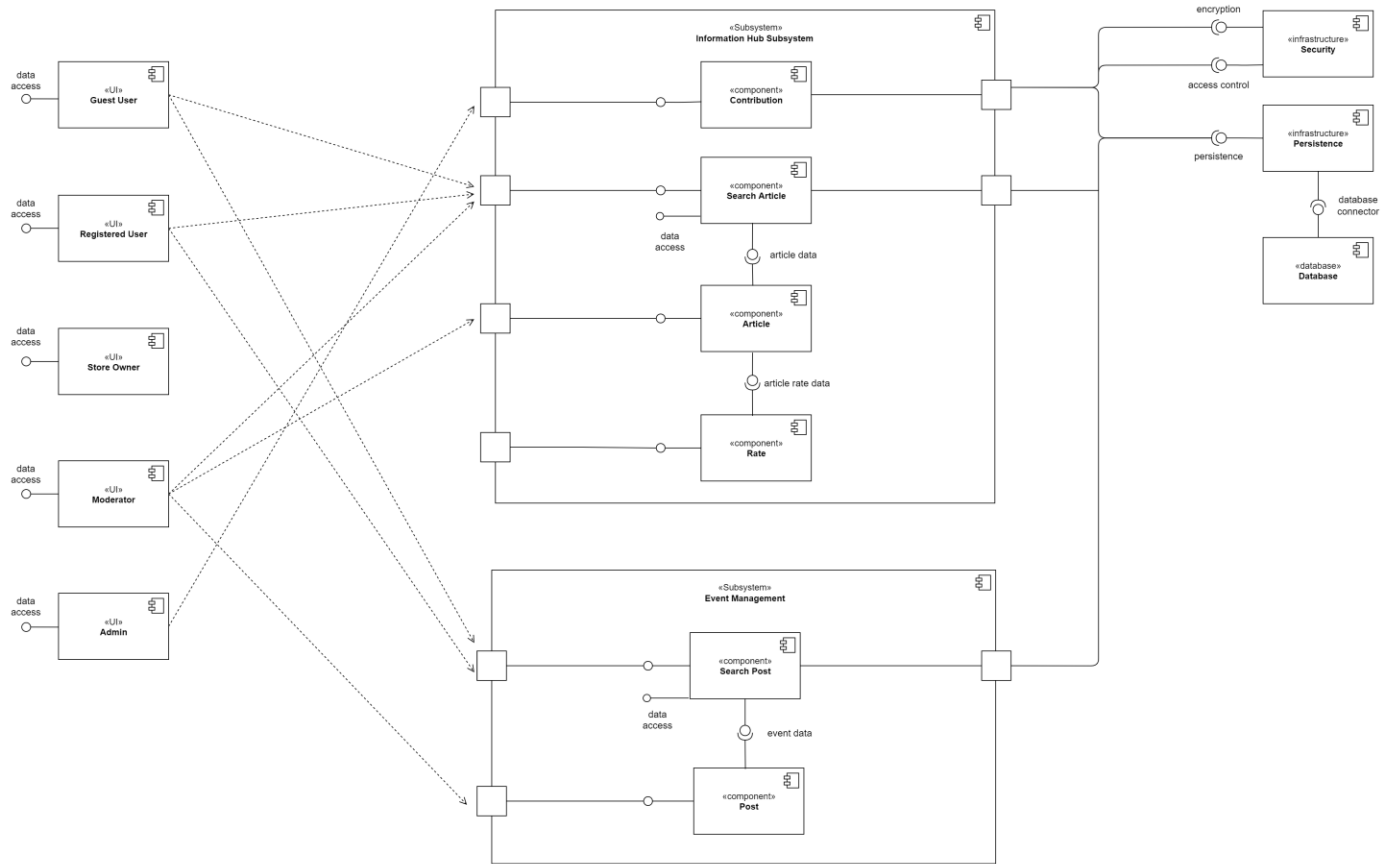
- Upgrader user account to moderator
- Downgrade moderator account
- View moderator contribution
- Remove an account



• High Level System Architecture







Quality Attributes

- **Usability**
Simple, responsive user interface
- **Availability**
Maintain good back-ups
- **Security**
User access levels
Login authentication

Quality Attributes

- **Performance**

Good hosting service

- **Portability**

Use of standard programming languages

Hardware compatibility

- **Maintainability**

Good documentation

Coding standards

Modular design



Feasibility Study

Feasibility

• 01 Operational Feasibility

- Survey conducted received majority positive answers
- Buy and sell fish and related equipment
- Adoption system
- Information hub
- Event requests

The project is **operationally feasible**

Feasibility

• 02 Technical Feasibility

- Software and hardware needed for implementation are freely available
- Technical skills required are within the capabilities of the team

The project is **technically feasible**

Feasibility

• 03 Economic Feasibility

- Cost for hosting
 - Free for the first year
- Cost for payment sandbox
- No cost for software and hardware

The project is **economically feasible**

Feasibility

- **04** Legal and ethical Feasibility

- Sensitive data will not be revealed to third parties
- Different access levels
- Misuse will not be tolerated

The project is **legally and ethically** feasible

Feasibility

- **05** Schedule Feasibility

Waterfall methodology will be used

4 members * 7 hours per week = 28 hours per week
42 Weeks * 28 hours/week

1176 hours



Technologies

Front End



Back End





Modules



Google Maps

PayHere



Collaboration

zoom



Version Control





Work Distribution



According to user roles

Inuri Gunasekara	Kalsha Samarajeewa	Dilshan Sankalpa	Rashmika Lakshan
<ul style="list-style-type: none">• Admin	<ul style="list-style-type: none">• Moderator	<ul style="list-style-type: none">• Guest User	<ul style="list-style-type: none">• Store-owner
<ul style="list-style-type: none">• Registered User	<ul style="list-style-type: none">• Registered User	<ul style="list-style-type: none">• Registered User	<ul style="list-style-type: none">• Registered User

Github Org Project Board

SYGP-48

Repositories Packages People Teams **Projects**

2nd Year Group Project
Updated 11 days ago

Filter cards + Add cards Fullscreen Me

2 To do

- ☐ Sequence Diagrams
 - ☐ Adoption/ Selling : @inurim
 - ☐ Authentication : @dilshanSankalpa
 - ☐ Info Hub : @wrlakshan
 - ☐ Events : @YaiyaSamAdded by inurim
- ☐ ER Diagram
 - Assignees: @YaiyaSam, @inurim, @dilshanSankalpa, @wrlakshanAdded by inurim

2 In progress

- ☐ Presentation
 - ☐ Create slides
 - ☐ Divide scriptsAssignees: @inurim, @YaiyaSam
Added by inurim
- ☐ UI Design
Added by inurim

14 Done

- check this*
Added by dilshanSankalpa
- ☐ Draw use case diagrams
 - Assignees
 - ☒ subsystem 1 (Adoption) : @YaiyaSam, @inurim
 - ☒ subsystem 2 (Community) : @wrlakshan
 - ☒ subsystem 3 (Info Hub) : @dilshanSankalpa
 - Diagram
<https://drive.google.com/file/d/15OL1TDmPZjzKKHY9n-RbOuklY62dkXH-/view?usp=sharing>

2 Notes

- ☐ i update registration activity diagram check it out
Added by dilshanSankalpa
- ☐ i have created use case narratives roughly for payment process and they are commented check it . there should be slight changes in the registration activity diagram as well as use case narrative of it i suggest it in the sign up use narrative i commented it and check it out . i will draw a new activity diagram for registration
Added by dilshanSankalpa



Thank you



Q & A