



Group 48



AquaSpace

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Meet the Team



Kalsha Samarajeewa



Rashmika Lakshan



Dilshan Sankalpa

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Project Goal



AquaSpace provides the community of fish enthusiasts and store owners with a platform that allows them to connect with each other easily and share information

what is AquaSpace?

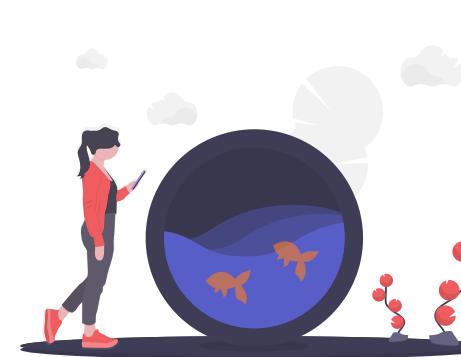
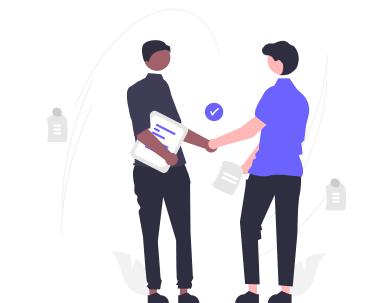
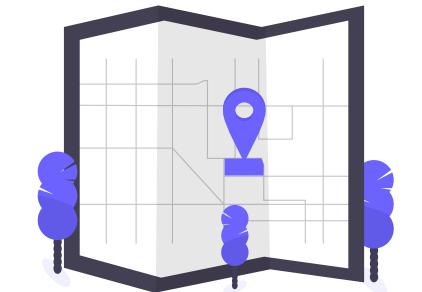


Problems

- Location based web application for buying and selling fish and equipment
- 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
- Adoption is not popular/ not known

Solutions

- Location based web application for buying and selling fish and equipment
- A central knowledge base on basic care instructions
- Ask questions from experts based on a coin system
- Connect store owners with potential clients and to help build a consumer base
- Promote adoption



Feedback



- Insufficient scope
- Unnecessary actors
- Renewing and deleting posts
- Charging for posts
- Illegal fish selling
- Word limitation on posts
- Delivery

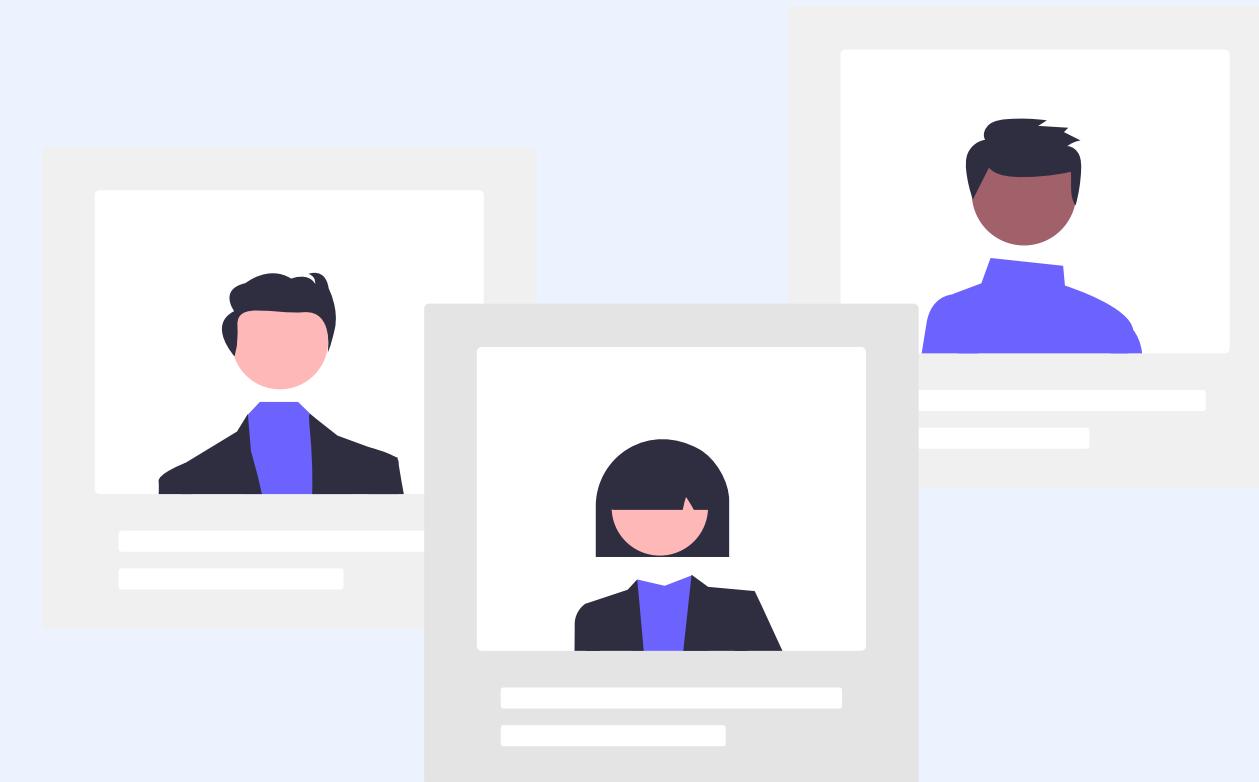
User Roles

01 Regular User

02 Store Owner

03 Verified Expert

04 Admin

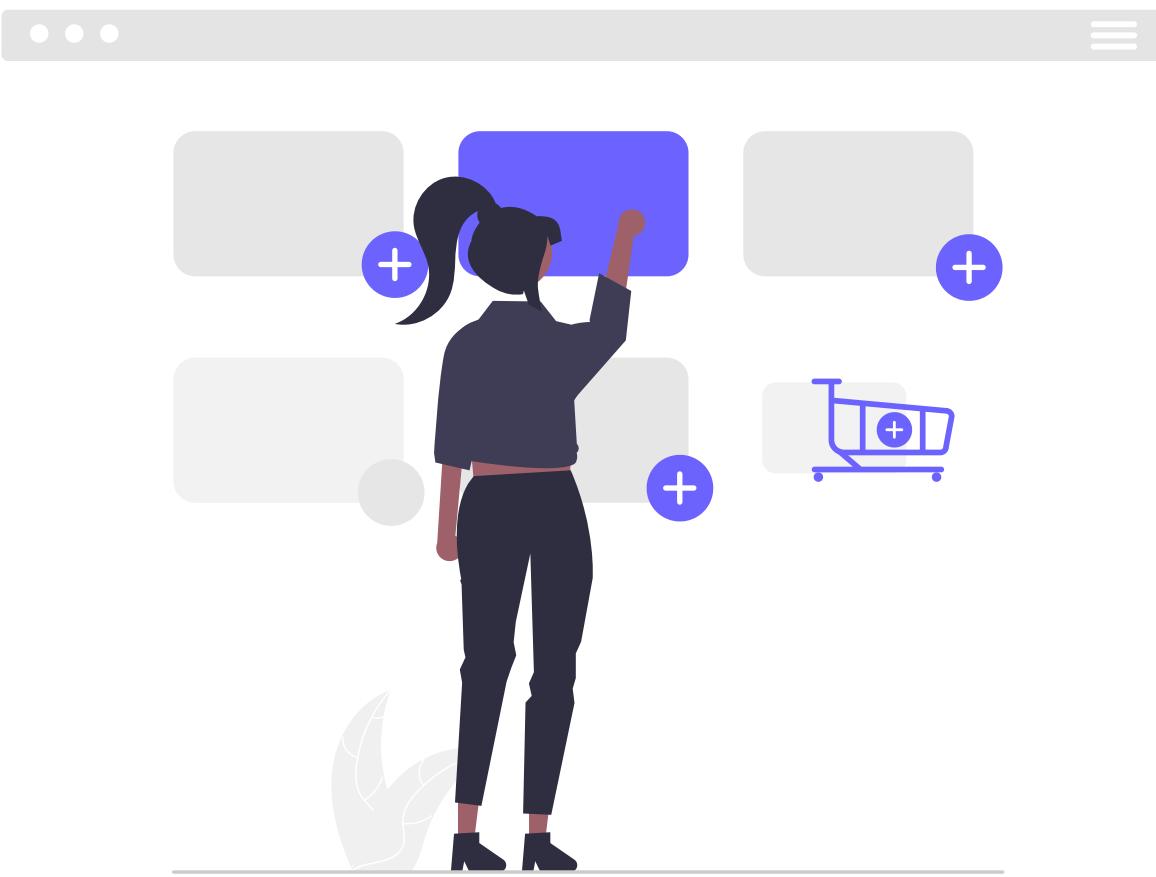




Functional Requirements

Regular User

- Add selling posts
- Add adoption posts
- Browse and view blog section
- Rate articles
- Post questions
- Guided tank building
- Buy products
- Rate and review products



Store Owner



- Add posts
- Sell fish and products
- Handle orders
- Handle refund requests
- Manage inventory
- Report generation
- Reply to item questions
- Delivery

Verified Expert

- Add fish data to the database
- Add articles to blog
- Answer registered users' questions
- Verify posts
- Handle posts related issues



Admin



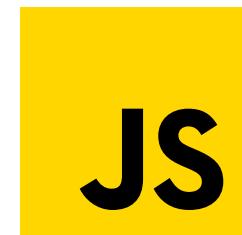
- Add admins to the system
- Verify expert accounts
- Verify store accounts
- Block or remove user accounts
- Report generation
- View post verifications
- View expert contribution
- Approve payments for experts
- Change post rates



Technologies



Frontend



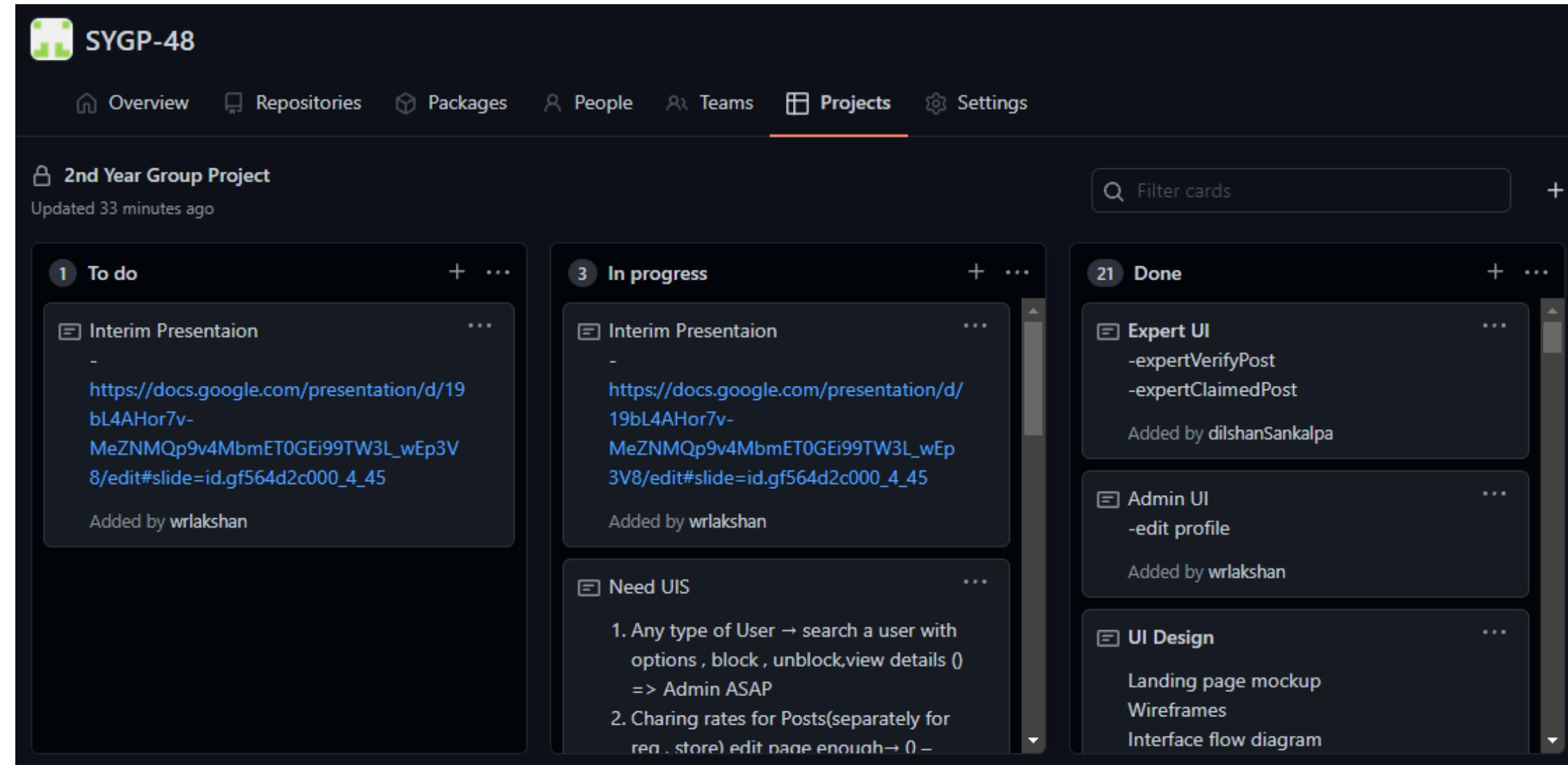
Backend



AquaSpace Rest API

```
▽ AQUASPACE
  > .vscode
  ▽ backend
    ▽ App
      > Controllers
      ! Config.php
    ▽ Core
      ! Controller.php
      ! Error.php
      ! Model.php
      ! Router.php
      ! Token.php
      ! View.php
    > log
    > public
    > vendor
    { composer.json
    { composer.lock
  > frontend
```

Version Controlling using git and github organization as the collaboration tool



The screenshot shows a GitHub organization named "SYGP-48" with a project titled "2nd Year Group Project". The project board has three columns: "To do", "In progress", and "Done".

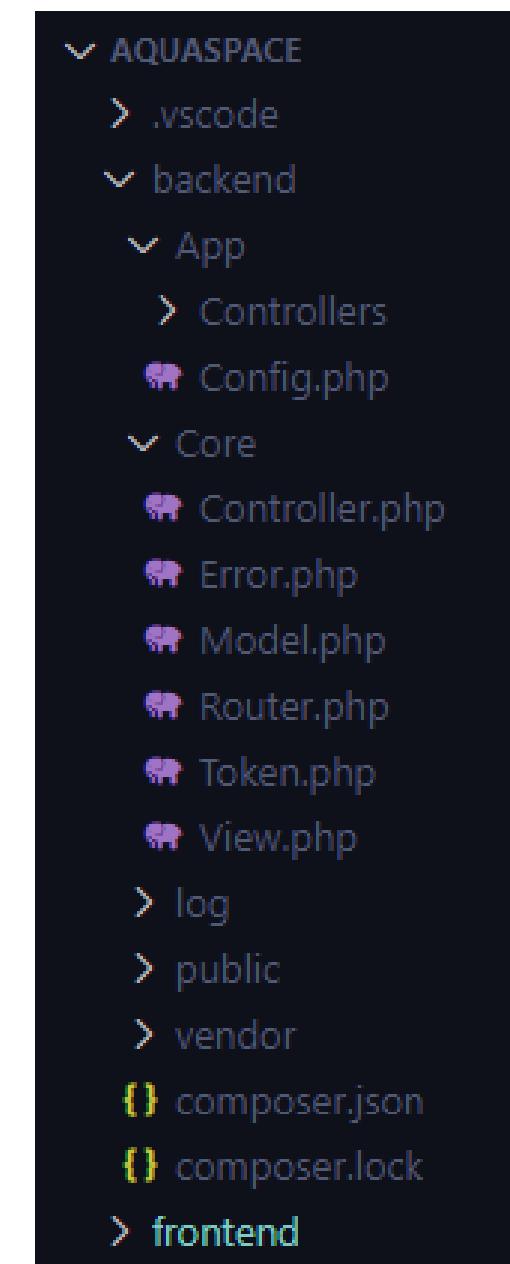
- To do:** 1 item: "Interim Presentaion" with a link to a Google Slides presentation.
- In progress:** 3 items: "Interim Presentaion" (with the same link), "Need UIS" (with a list of tasks: 1. Any type of User → search a user with options , block , unblock,view details () => Admin ASAP, 2. Charing rates for Posts(separately for req . store) edit page enough→ 0 –), and "UI Design" (with tasks: Landing page mockup, Wireframes, Interface flow diagram).
- Done:** 21 items: "Expert UI" (with tasks: -expertVerifyPost, -expertClaimedPost), "Admin UI" (with task: -edit profile), and "UI Design" (with tasks: Landing page mockup, Wireframes, Interface flow diagram). One card in the "Done" column was added by "dilshanSankalpa".

A filter bar at the top right allows filtering cards.

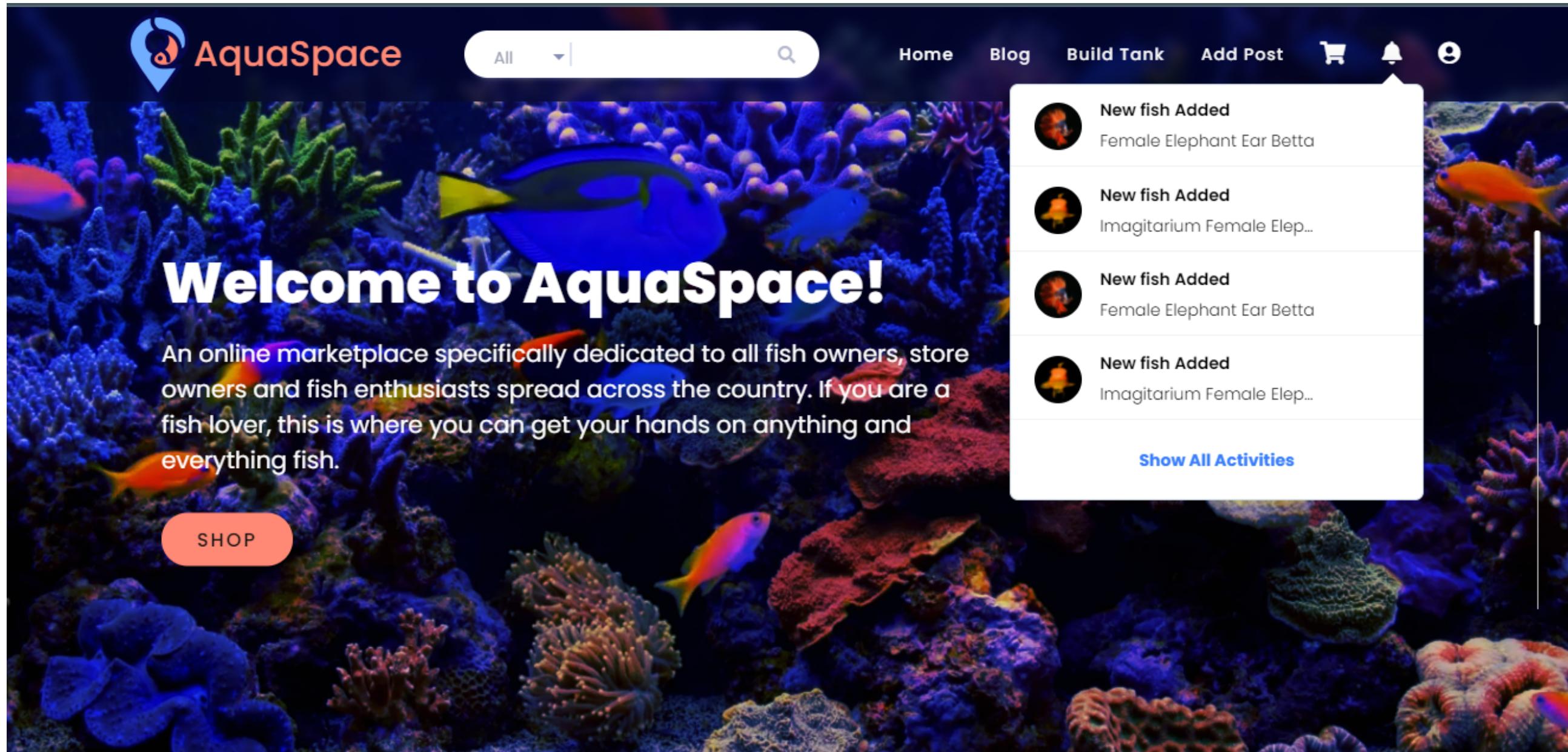
Quality Assurance



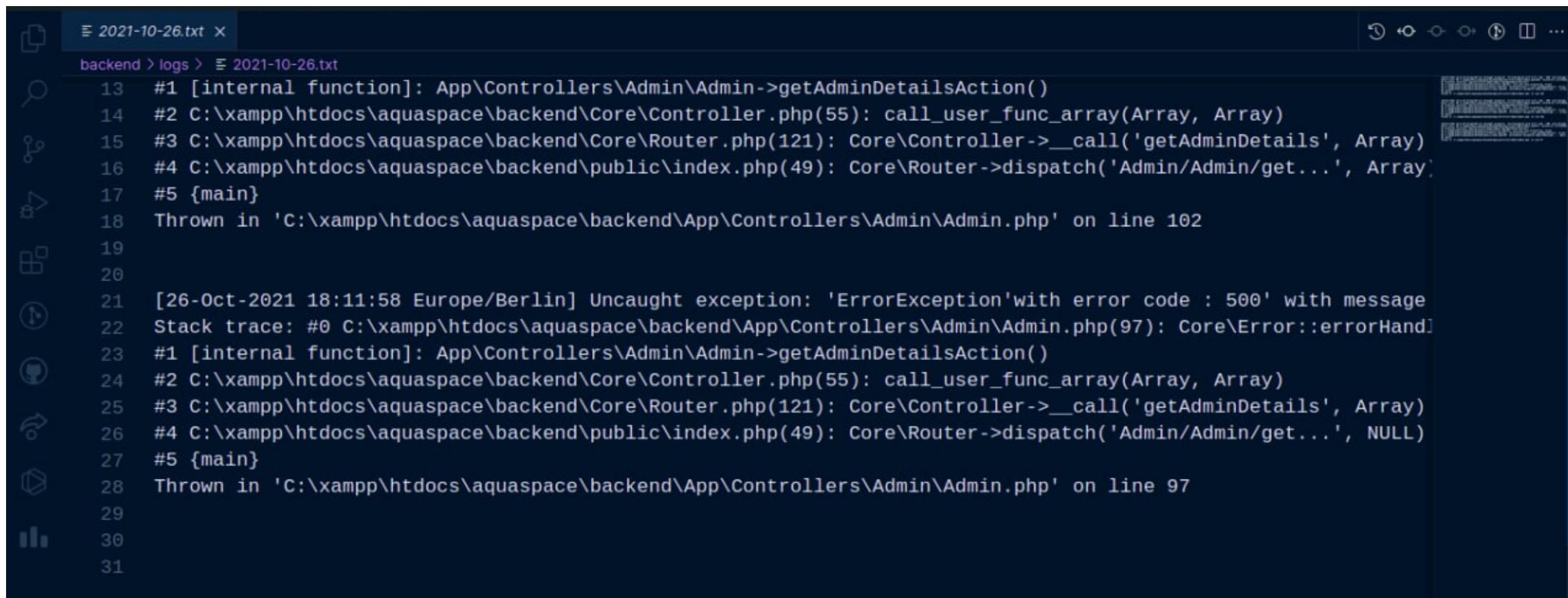
Enhanced security and ease of modification using modularity with the help of the custom made MVC framework



User friendly interfaces and easy navigation

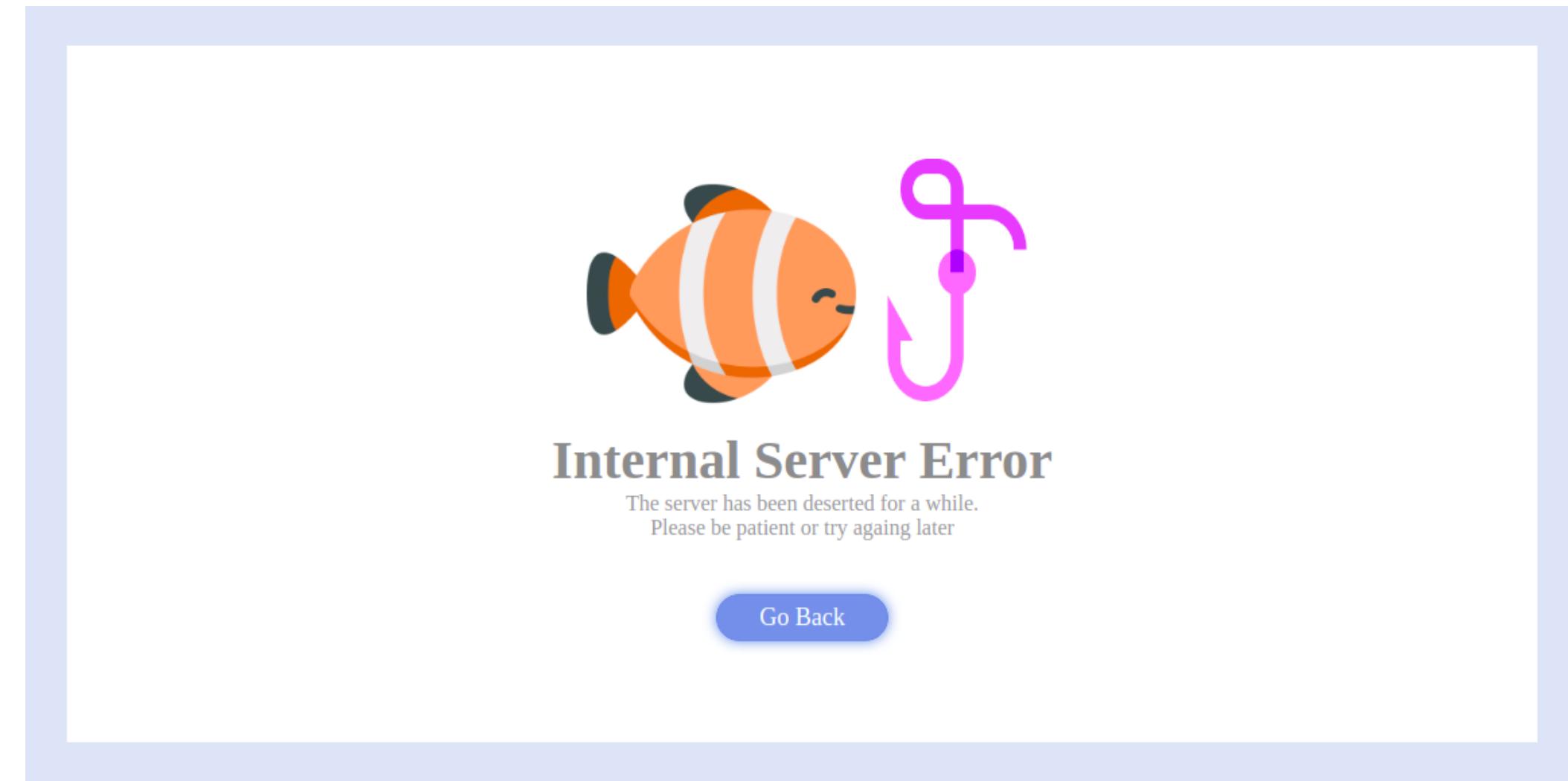


Log system for server side errors



```
backend > logs > 2021-10-26.txt
13 #1 [internal function]: App\Controllers\Admin\Admin->getAdminDetailsAction()
14 #2 C:\xampp\htdocs\aquaspace\backend\Core\Controller.php(55): call_user_func_array(Array, Array)
15 #3 C:\xampp\htdocs\aquaspace\backend\Core\Router.php(121): Core\Controller->__call('getAdminDetails', Array)
16 #4 C:\xampp\htdocs\aquaspace\backend\public\index.php(49): Core\Router->dispatch('Admin/Admin/get...', Array)
17 #5 {main}
18 Thrown in 'C:\xampp\htdocs\aquaspace\backend\App\Controllers\Admin\Admin.php' on line 102
19
20
21 [26-Oct-2021 18:11:58 Europe/Berlin] Uncaught exception: 'ErrorException' with error code : 500' with message
22 Stack trace: #0 C:\xampp\htdocs\aquaspace\backend\App\Controllers\Admin\Admin.php(97): Core\Error::errorHand
23 #1 [internal function]: App\Controllers\Admin\Admin->getAdminDetailsAction()
24 #2 C:\xampp\htdocs\aquaspace\backend\Core\Controller.php(55): call_user_func_array(Array, Array)
25 #3 C:\xampp\htdocs\aquaspace\backend\Core\Router.php(121): Core\Controller->__call('getAdminDetails', Array)
26 #4 C:\xampp\htdocs\aquaspace\backend\public\index.php(49): Core\Router->dispatch('Admin/Admin/get...', NULL)
27 #5 {main}
28 Thrown in 'C:\xampp\htdocs\aquaspace\backend\App\Controllers\Admin\Admin.php' on line 97
29
30
31
```

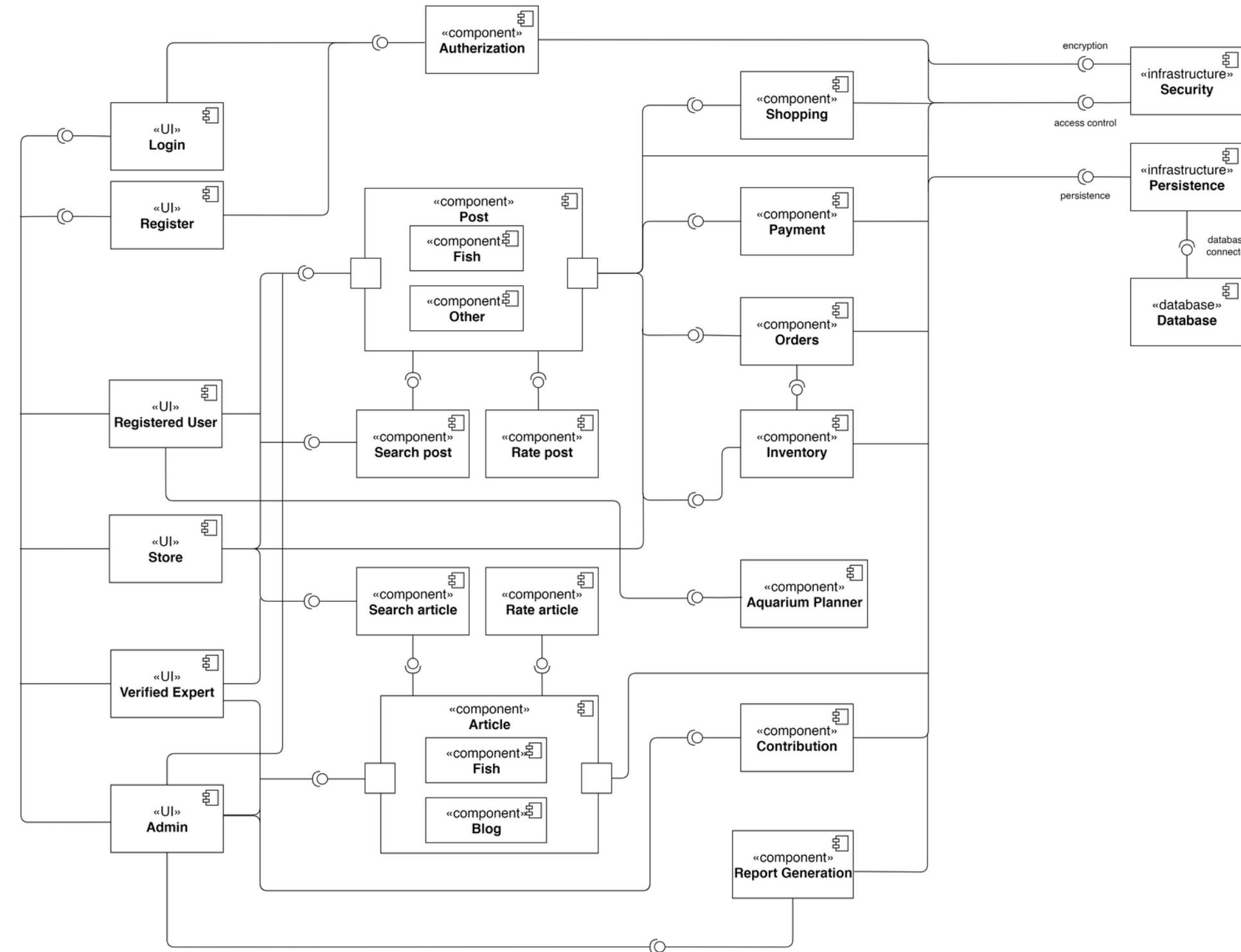
User friendly error handling - end users cannot see the server side errors



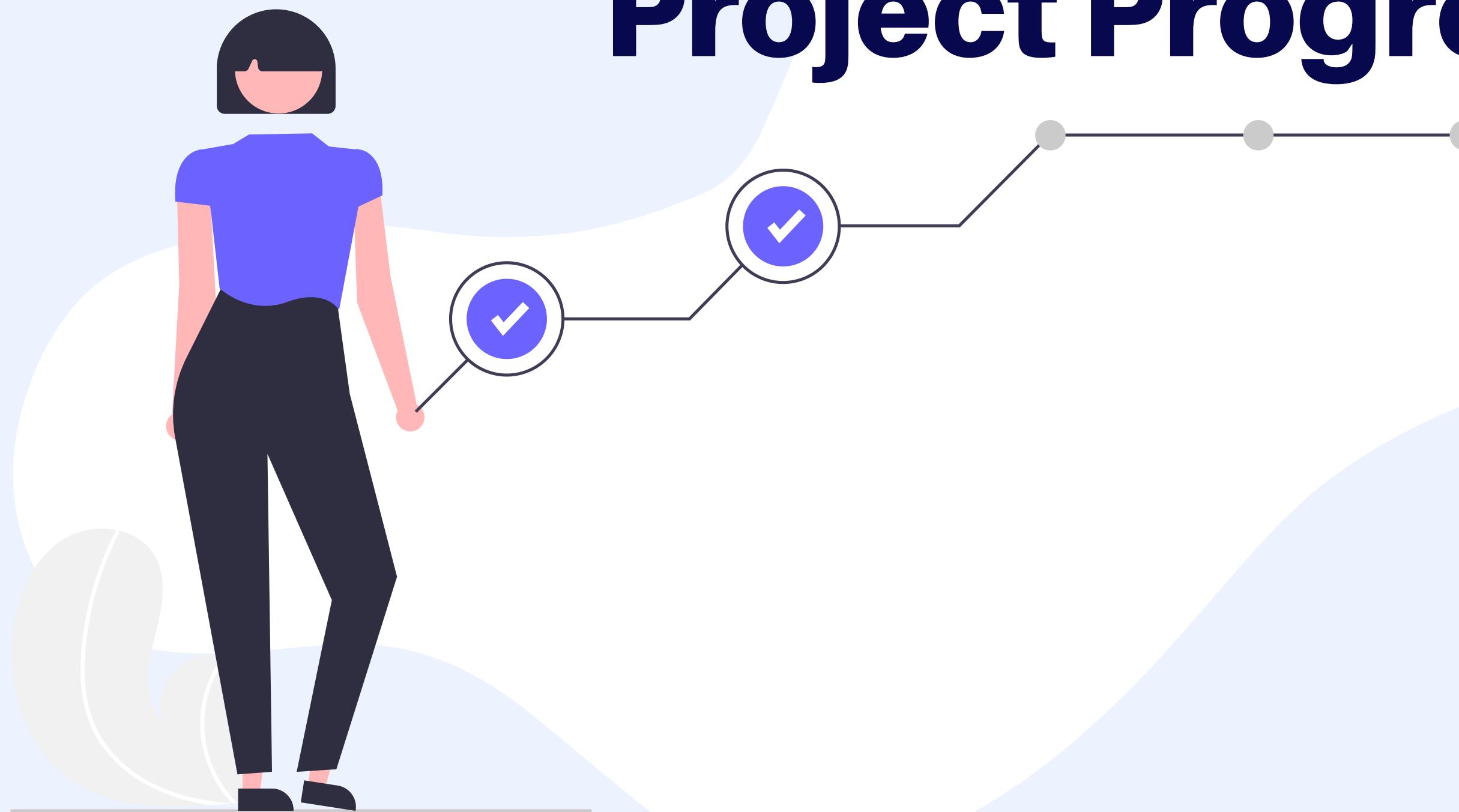
MD5 password encryption and token based authentication system

access_token	user_type 1 = regular user, 2 = experienced user, 3 = store ...	user_status	attempt	attempt_time save time() value due to ease of comparison	password
b3VylHNIY3JldGUgaGVhZGVy.e2lkOjI1LGVtYWlsOidrYWxza...	1	4	0	1635692175	e2d4aa88a95e3c42b7d66a488876c50e

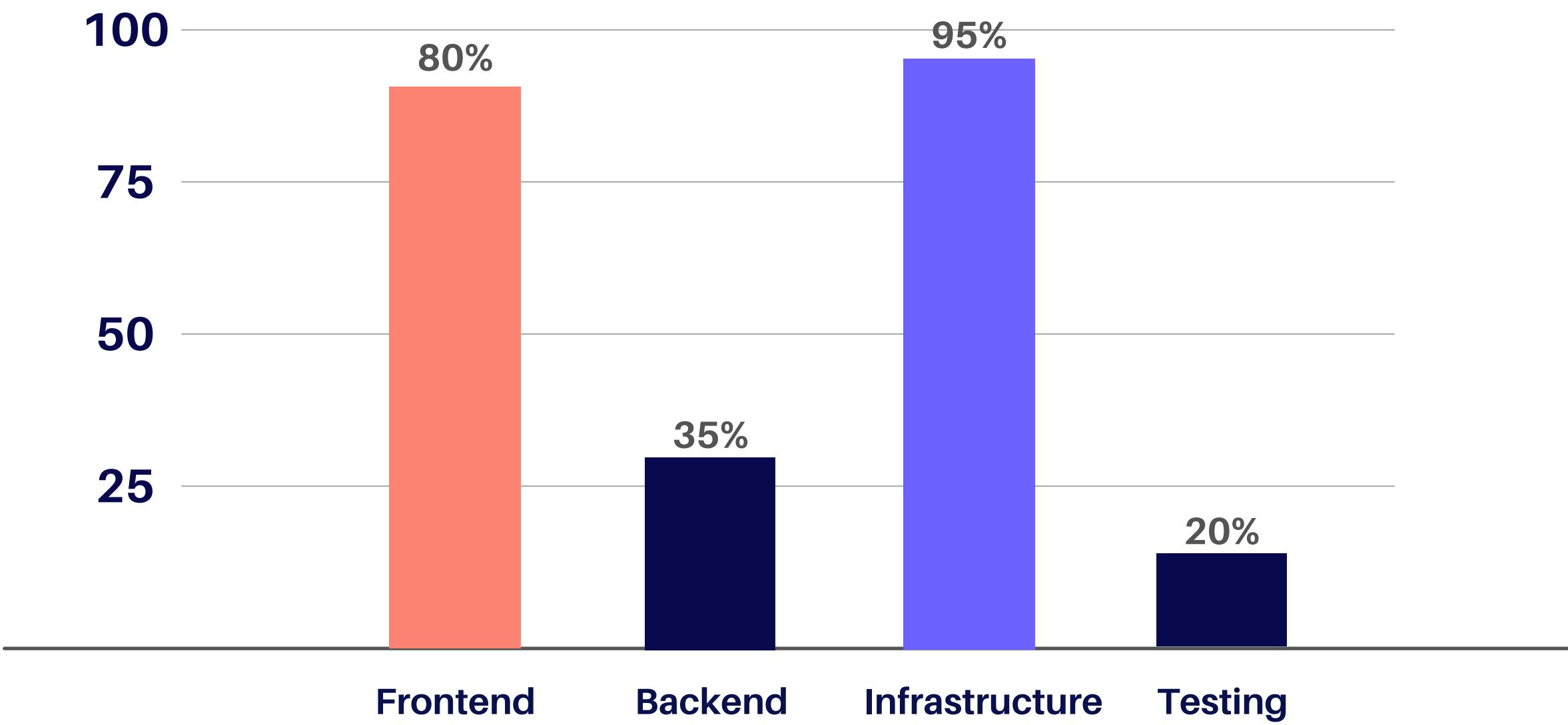
System Architecture



Project Progress



Progress



Approximated data on the project progress

Regular User

- Authentication
- 90% of the user interfaces
- Landing page
- View products
- Add fish/plant/equipment posts
- Add adopt posts
- Ask question from verified experts

Store Owner

- Authentication
- 90% of the user interfaces
- View storefront
- Add to inventory
- View items in inventory

Administrator

- Authentication
- 90% of the user interfaces
- Account overview
- Edit profile
- Reset password
- Add admins
- View admins
- Verify store accounts
- Verify expert accounts

Verified Expert

- Authentication
- 70% of the user interfaces

Testing

- Testing for authentication system
- Testing on user registration and login validation
- Testing database connectivity
- Testing completed CRUD operations

Workload Distribution

Dilshan Sankalpa

- Authentication
- Administrator
- Verified expert

Kalsha Samarajeewa

- Landing page
- Regular user
- Verified expert

Rashmika Lakshan

- Login and signup UI
- Store owner
- Verified expert



Project Timeline

Demonstration

