American International University-Bangladesh (AIUB)
Department of Computer Science
Faculty of Science & Technology (FST)

Fish Disease Detector

A Software Engineering Project Submitted

Semester: Spring_23_24		**Section: J**	**Group Number:**	
SN	Student Name	Student ID	Contribution (CO3+CO4)	Individual Marks
1	Kamruzzaman Sony	22-46791-1		
2	Md. Shakil Hossain	22-46885-1		
3	A. M. Rafinul Huq	21-45668-3		
4	Debashish Das	19-40693-1		

The project will be Evaluated for the following Course Outcomes

CO3: *Select* appropriate software engineering models, project management roles and their associated skills for the complex software engineering project and evaluate the sustainability of developed software, taking into consideration the societal and environmental aspects	Total Marks	
Appropriate Process Model Selection and Argumentation with Evidence	[5 Marks]	
Evidence of Argumentation regarding process model selection	[5Marks]	
Analysis the impact of societal, health, safety, legal and cultural issues	[5Marks]	
Submission, Defense, Completeness, Spelling, grammar and Organization of the Project report	[5Marks]	
CO4: *Develop* project management plan to manage software engineering projects following the principles of engineering management and economic decision process	Total Marks	
Develop the project plan, its components of the proposed software products	[5Marks]	
Identify all the activities/tasks related to project management and categorize them within the WBS structure. Perform detailed effort estimation correspond with the WBS and schedule the activities with resources	[5Marks]	
Identify all the potential risks in your project and prioritize them to overcome these risk factors.	[5Marks]	

Description of Student's Contribution in the Project work

Student Name: Kamruzzaman Sony
Student ID: 22-46797-1
Contribution in Percentage (85 %):
Contribution in the Project:

- Contribution Description 1
- Contribution Description 2

_____
Signature of the Student

Student Name: Md. Shakil Hossain
Student ID: 22-46885-1
Contribution in Percentage (5 %):
Contribution in the Project:

- Contribution Description 1
- Contribution Description 2

_____
Signature of the Student

Student Name: A. M. Rafinul Huq
Student ID: 21-45668-3
Contribution in Percentage (5 %):
Contribution in the Project:

- Contribution Description 1
- Contribution Description 2

_____
Signature of the Student

Student Name: Debashish Das
Student ID: 19-40693-1
Contribution in Percentage (5 %):
Contribution in the Project:

- Contribution Description 1
- Contribution Description 2

_____
Signature of the Student

Rubric for Project Assessment (CO3)

Criteria	Marks distribution (Max 3X5= 15)				Acquired Marks
	Inadequate (1-2)	Satisfactory (3)	Good (4)	Excellent (5)	
Selection of Software Engineering Models	Does not articulate a position or argument of choosing appropriate model. Does not present any evidence to support the arguments for the choice of the model	Articulates a position or argument for choosing models that is unfocused or ambiguous. Presents incomplete/vague evidence to support argument for model choice	Articulates a position or argument of choosing models that is limited in scope. Does not present enough evidence to support the argument for the choice of the model	Clearly articulates a position or argument for the choosing software engineering models. Presents sufficient amount of evidence to support argument for the model selection	
Role identification and Responsibility Allocation	The project has poor project management plans for identifying roles and assigning the responsibilities	Identify few roles in the project management where some of the roles are left alone with any project responsibilities	Identify most of the roles in the project management and assign their responsibilities	Well planned project with proper role identification and responsibility allocation in the project management activities	
Impact identification					
Formatting and Submission	Project report is not complete and Several errors in spelling and grammar. Present a Confusing organization of concepts, supporting arguments, and	Some errors in spelling and grammar. Some problems of organizing the answer in a logical order of defining, elaborating, and	Few errors in spelling and grammar. Presents most of the details in a logical flow of organization in	Project report is complete and No errors in spelling and grammar. Consistently presents a logical	

	real-life example. Sentences rambling, and details are repeated.	providing real-life examples.	definition, details, and example.	and effective organization of definition, details, and real-life example of the topic.	
				Acquired marks:	
				CO Pass / Fail:	

Rubric for Project Assessment (CO4)

Marking Criteria	**Marks Distribution (Maximum 3X5=15)**				**Acquired Marks**
	Inadequate (1-2)	**Satisfactory (3)**	**Good (4)**	**Excellent (5)**	
Project Planning	No background information regarding the project is given; project goals and benefits are missing.	Insufficient background information is given; project goals and benefits are poorly stated	Sufficient background information is given; the purpose and goals of the project are explained.	Thorough and relevant background information is given; project goals are clear and easy to identify.	
Effort Estimation and Scheduling	Student vaguely discuss the impact of societal, health, safety, legal and cultural issues in their project	Student provided with partial relevance to the impact of societal, health, safety, legal and cultural issues in their project	Student fairly provided the analysis to the impact of societal, health, safety, legal and cultural issues in their project	Student comprehensively provided the analysis to the impact of societal, health, safety, legal and cultural issues in their project	
Risk Management	Ambiguous representative example.	Partially identify / indicate towards real-life example.	Real-life example is fairly connected towards the definition.	Comprehensively defend with real life example.	
				Acquired Marks:	
				CO Pass / Fail:	

UI/UX DESIGN

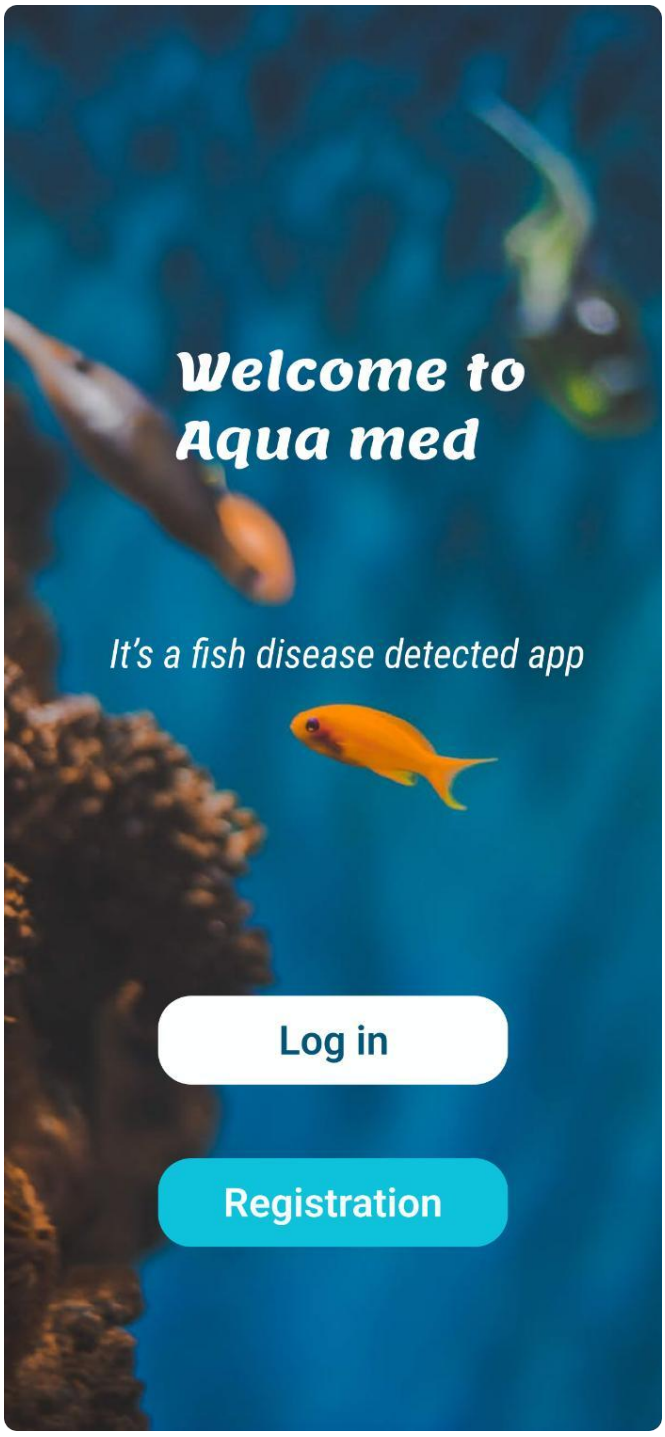

Figure 1: Home Page

1.Home Page: The home page serves as the initial point of interaction for users upon launching the AquaMed application. This pivotal screen not only provides a seamless entry point but also presents essential functionalities such as login and registration options. This report outlines the proposed design elements and user flow for the AquaMed app's home page, focusing particularly on the presentation of the login and registration features.

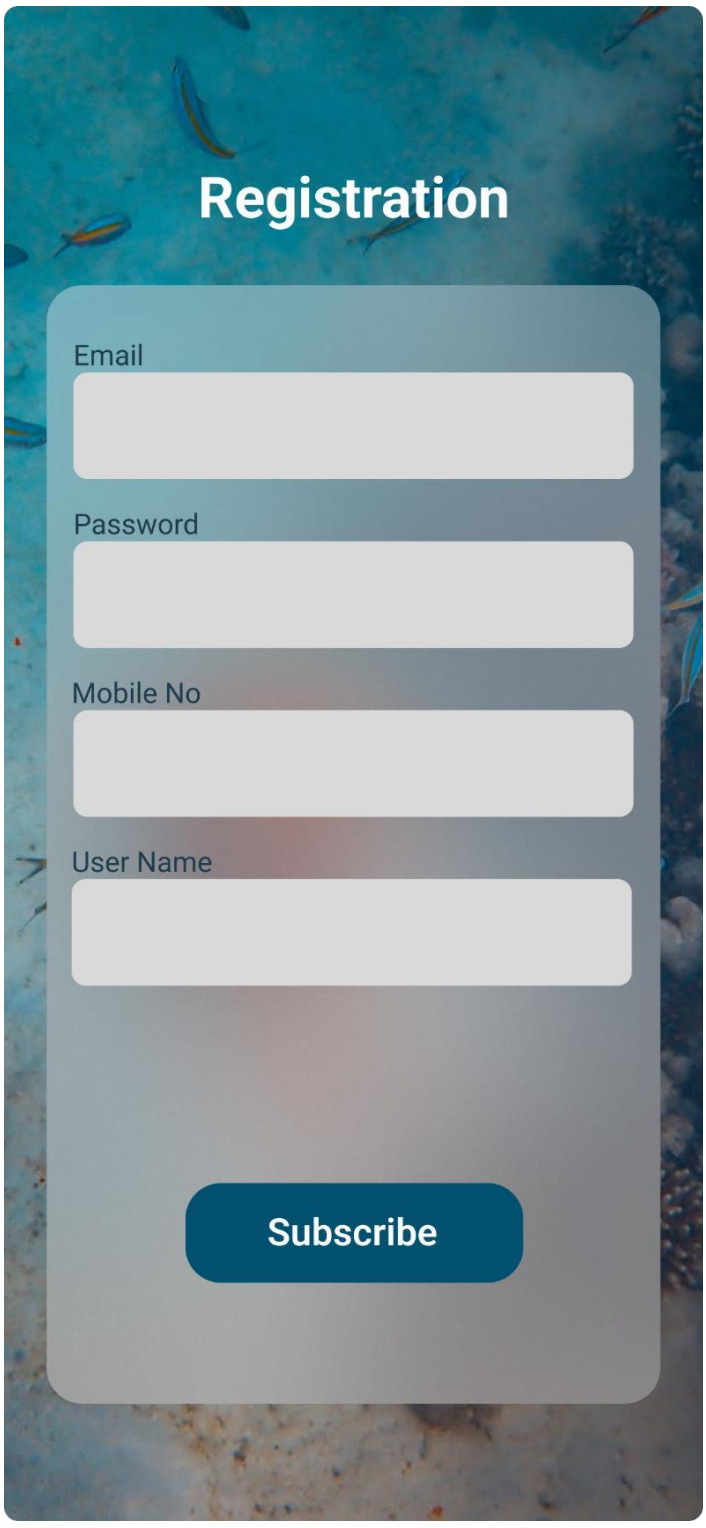

Figure 2: Registration Page

2.Registration Page: The Registration Page is a pivotal component of the AquaMed application, serving as the entry point for new users to join the platform. In response to user feedback and our commitment to enhancing user experience, we propose a refined registration process that seamlessly integrates user sign-up and subscription initiation. This report outlines the key features and functionalities of the enhanced Registration Page.

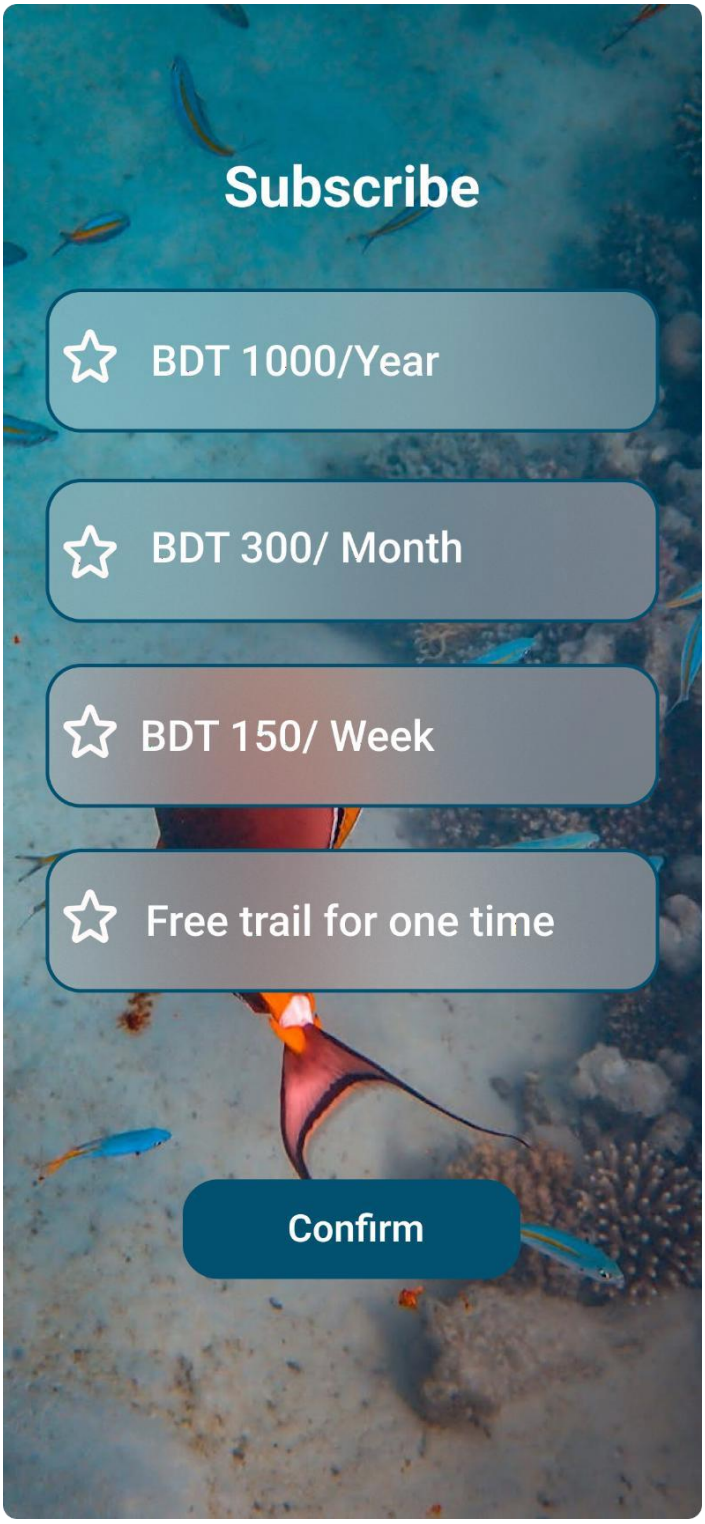

Figure 3: Subscription Page

3.Subscription Page: The Subscription Page within the AquaMed application plays a pivotal role in offering users transparent access to subscription plans tailored to their needs. This report outlines the key functionalities of the Subscription Page, including plan selection and database registration upon confirmation.

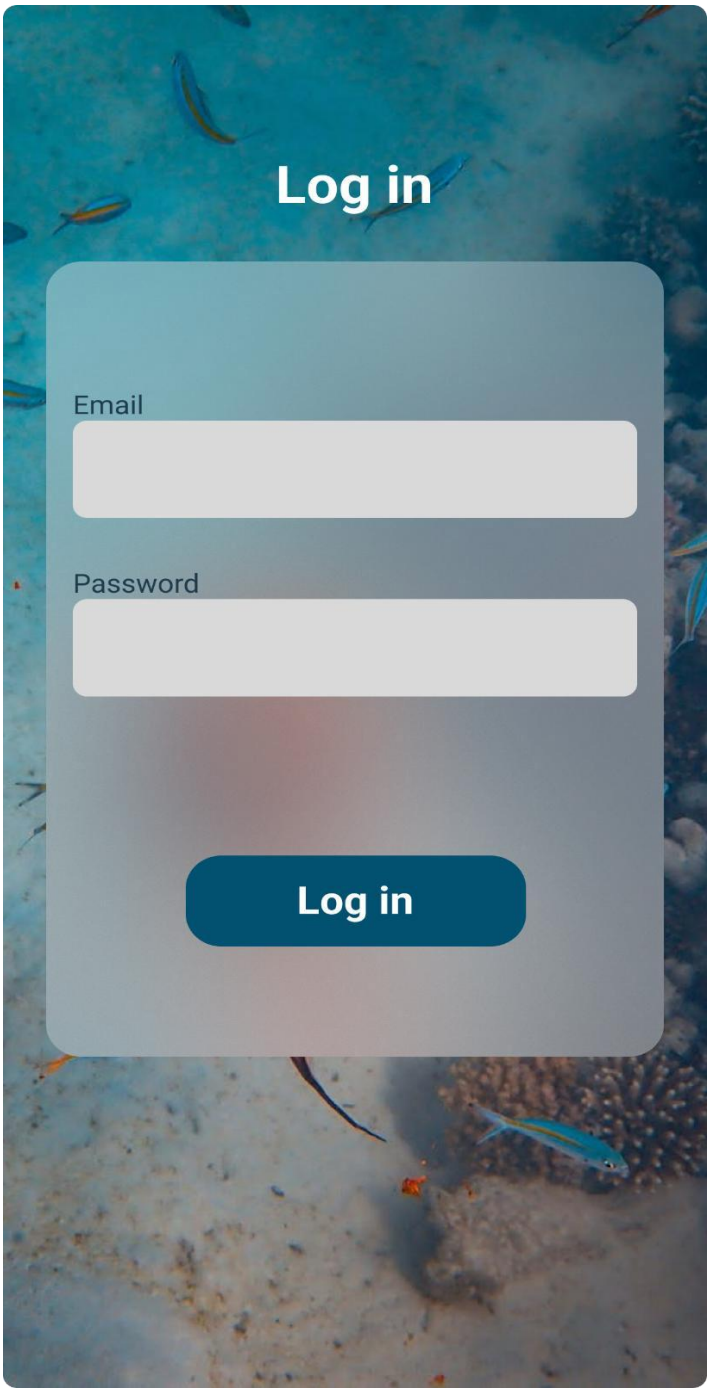

Figure 4: Login Page

4.Login Page: The Login Page is a fundamental component of the AquaMed application, providing users with secure access to their accounts and the platform's features. This report outlines the essential features and user flow of the AquaMed Login Page, emphasizing seamless access to the user dashboard upon successful login.

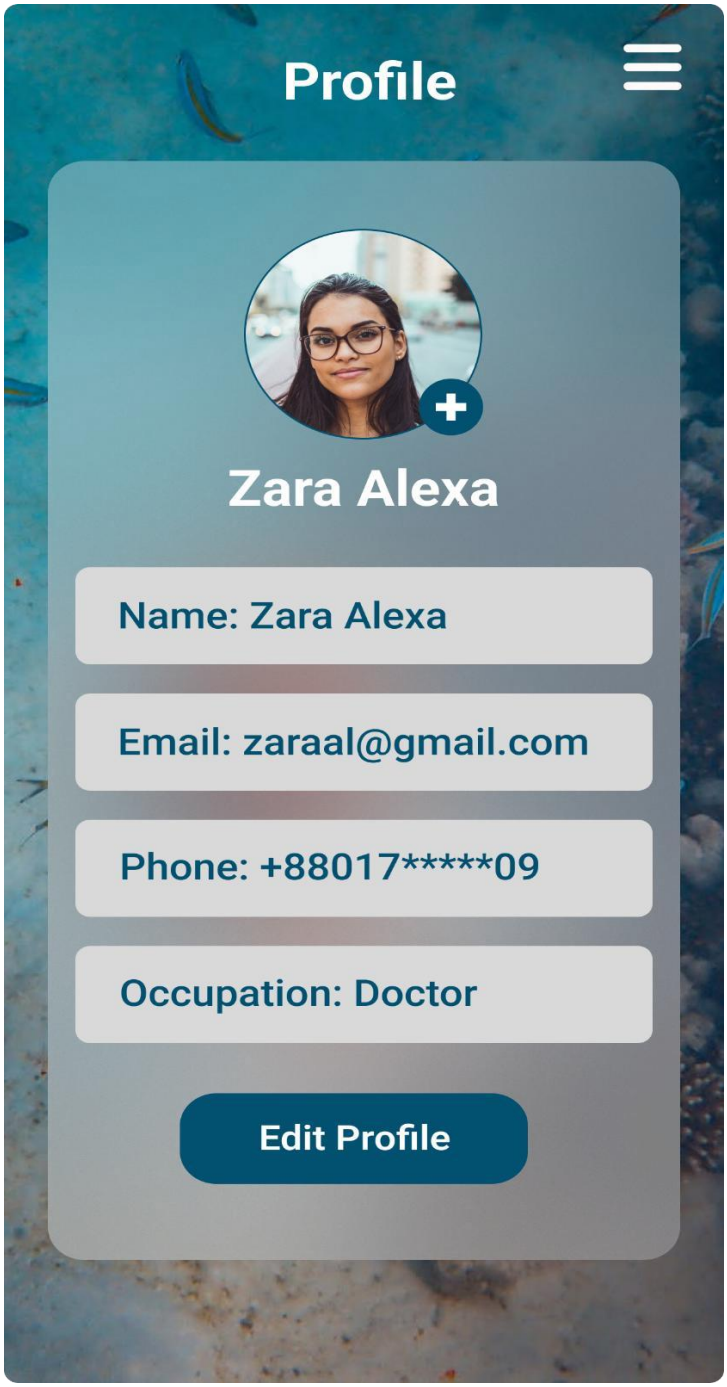

Figure 5: Profile Page

5.Profile Page: The Profile Page within the AquaMed application offers users a comprehensive view of their personal information while providing the flexibility to edit and update their details as needed. This report outlines the key features and user interactions available on the AquaMed Profile Page, emphasizing both information display and editing functionalities.

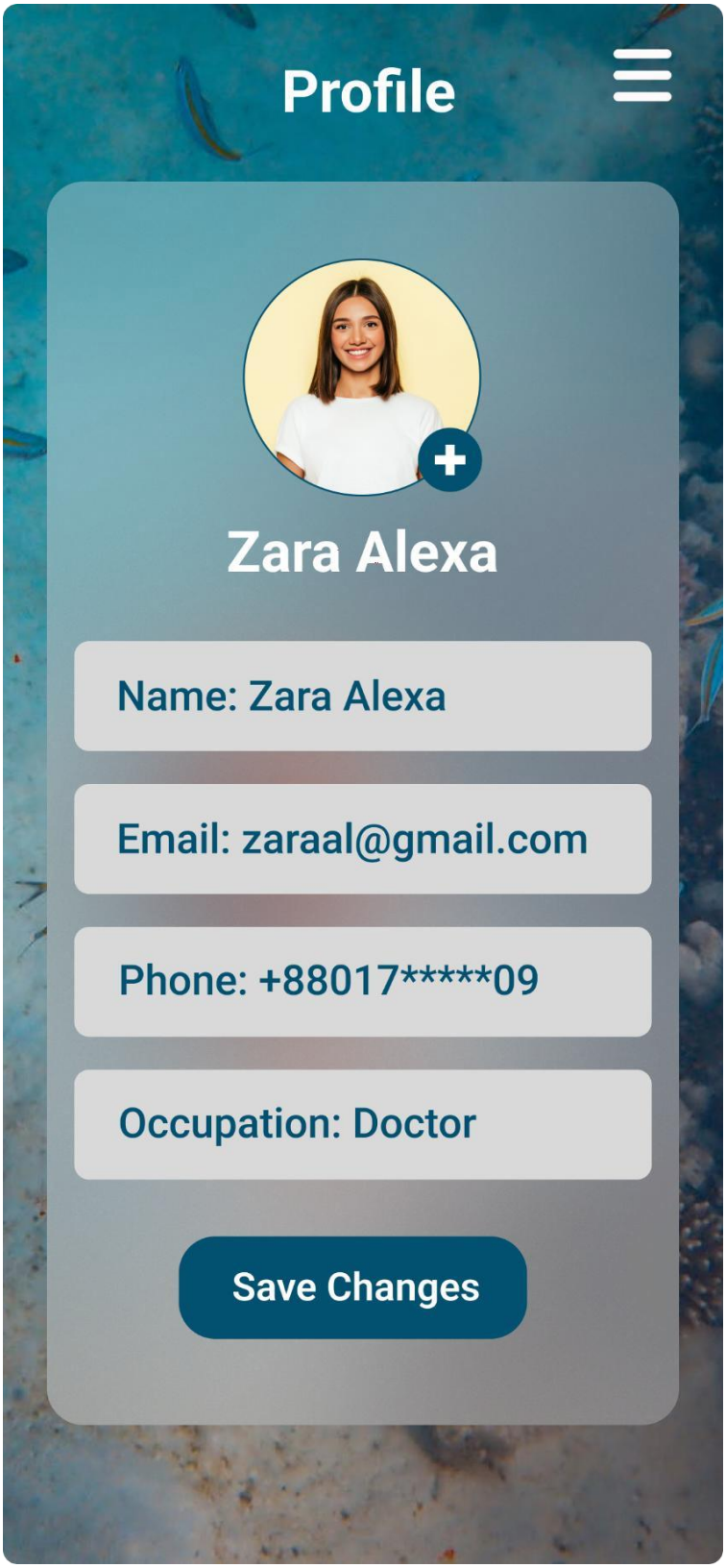

Figure 6: Profile edit Page

6.Profile edit Page: The Profile Edit Page within the AquaMed application empowers users to update and refine their personal information according to their evolving preferences. This report outlines the seamless and intuitive user experience offered by the Profile Edit Page, focusing on the process of editing and saving changes to user details.

Figure 7: News Portal page

7.News Portal Page: The News Portal Page within the AquaMed application serves as a comprehensive resource for users to access the latest information and updates regarding fish diseases. This report outlines the key features and functionalities of the News Portal Page, focusing on its role in delivering timely and relevant news content to users.

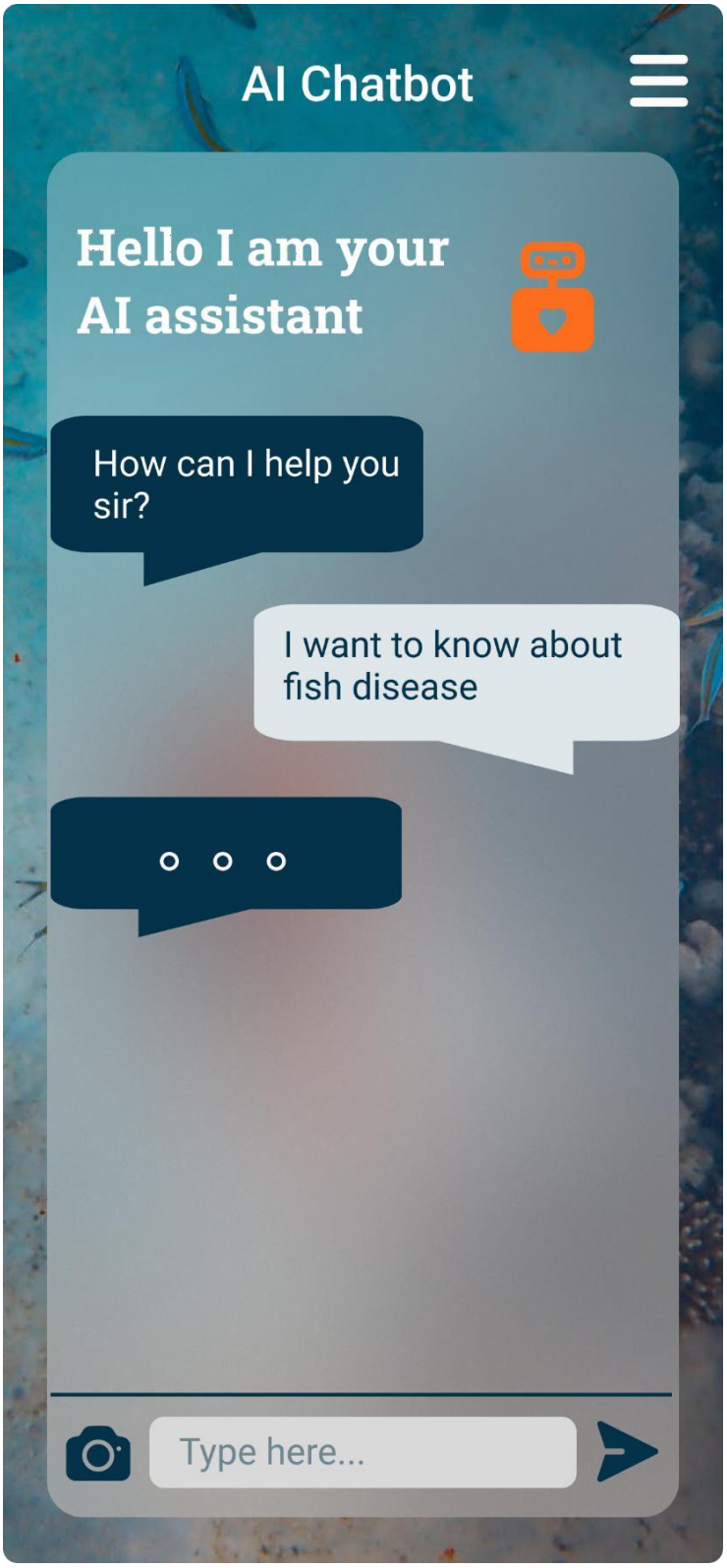

Figure 8: AI Chatbot

8.AI Chatbot: The AI Chatbot feature integrated into the AquaMed application offers users personalized and timely support related to aquaculture and fish health management. This report outlines the functionality and benefits of the AI Chatbot, emphasizing its role in providing users with tailored assistance and guidance.

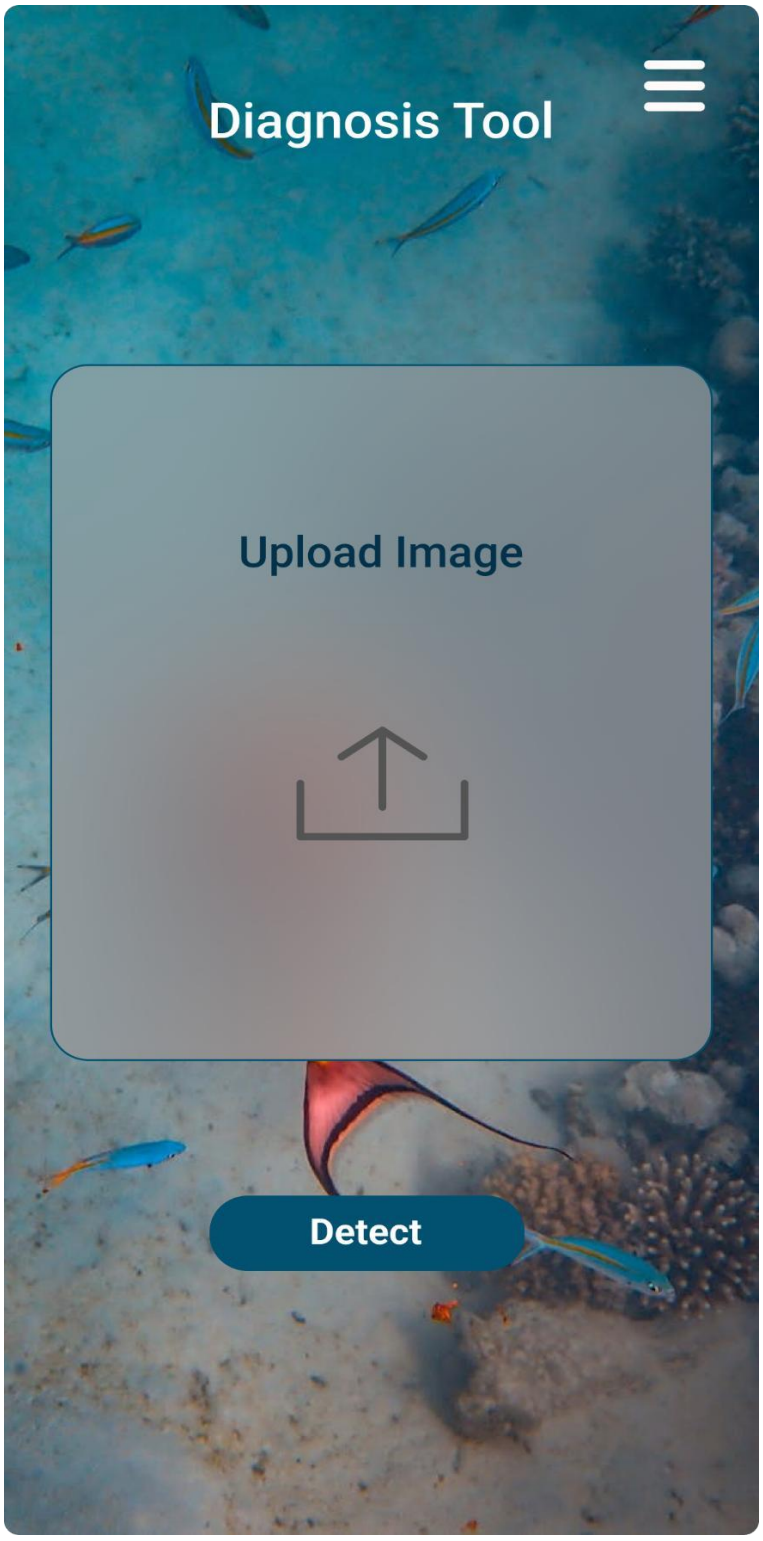

Figure 9: Diagnosis Tool

9.Diagnosis Tool Page:.The Diagnosis Page within the AquaMed application represents a groundbreaking feature that serves as both a diagnostic tool and the user dashboard. This report outlines the multifaceted functionality and significance of the Diagnosis Page, emphasizing its role in facilitating the detection of fish diseases through image analysis.

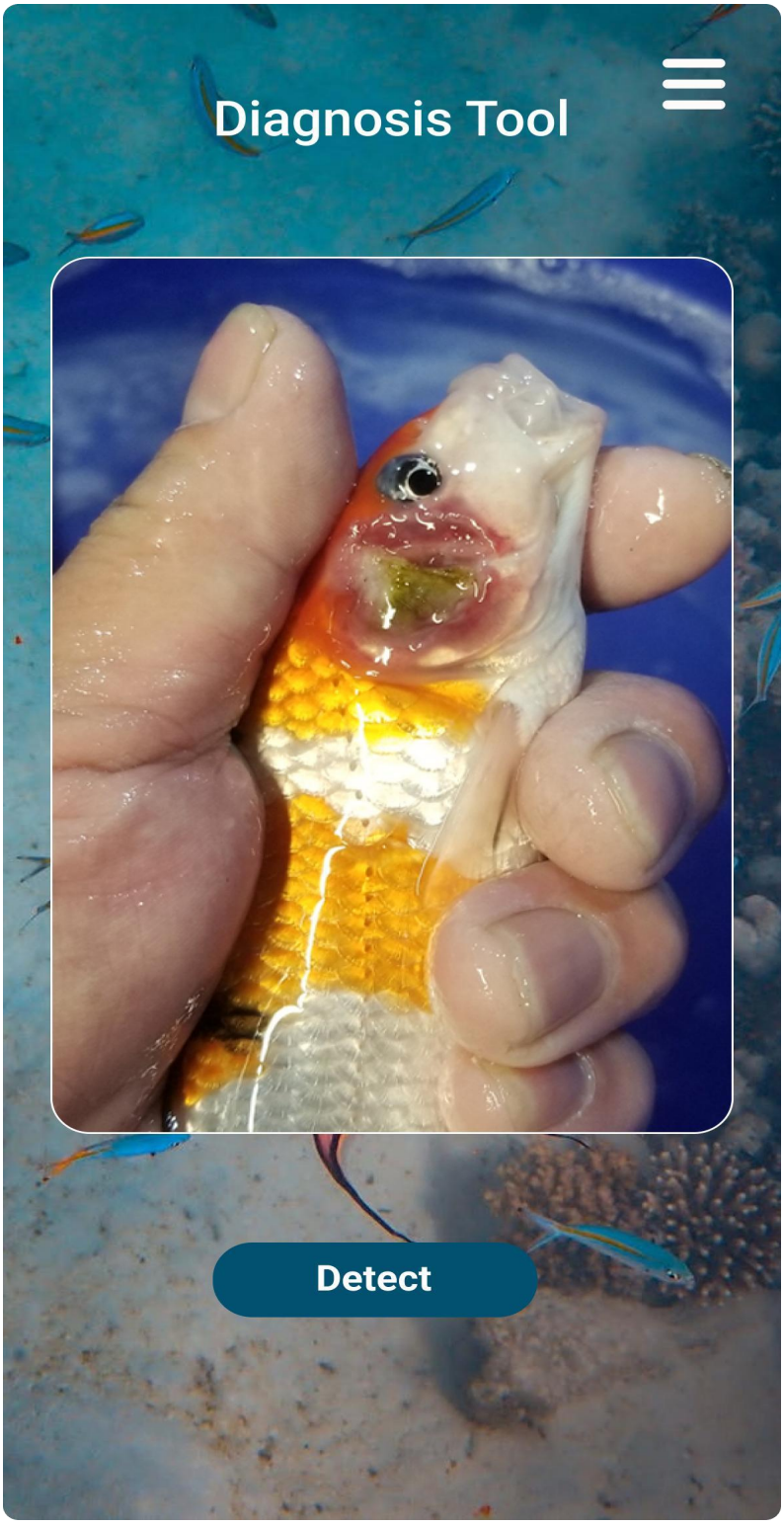

Figure 10: Diagnosis tool page

10.Diagnosis Tool Page: The Diagnosis Tool Page within the AquaMed application offers users a powerful platform to upload images of affected fish specimens for analysis and diagnosis. This report highlights the key functionality of the Diagnosis Tool Page, focusing on the seamless image upload and display feature.

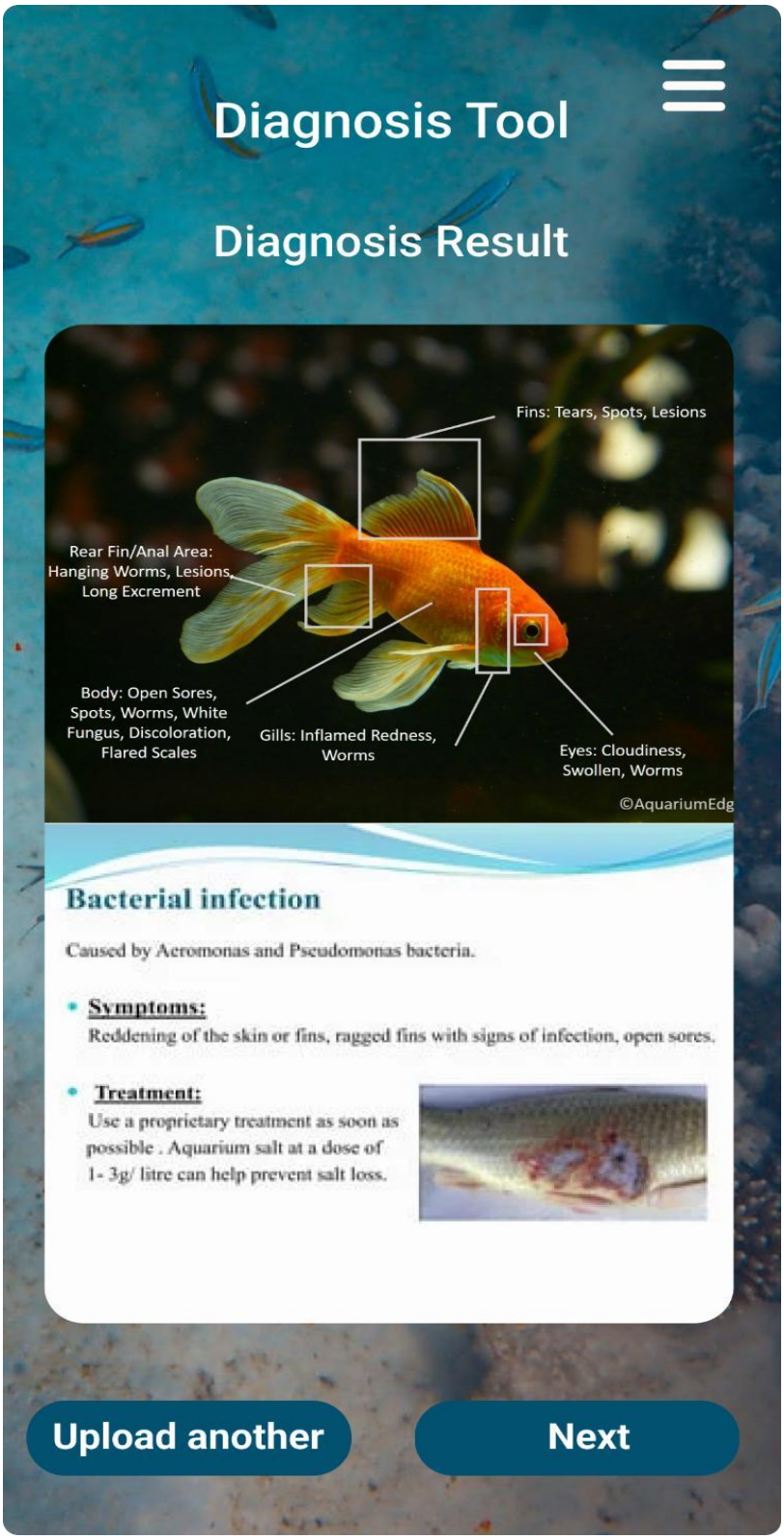

Figure 11: Diagnosis Result Page

11.Diagnosis Result Page: The Diagnosis Result Page within the AquaMed application serves as a hub for users to access detailed information and analysis related to fish diseases detected from uploaded images. This report outlines the key features and functionalities of the Diagnosis Result Page, emphasizing its role in providing comprehensive disease analysis and facilitating user navigation.

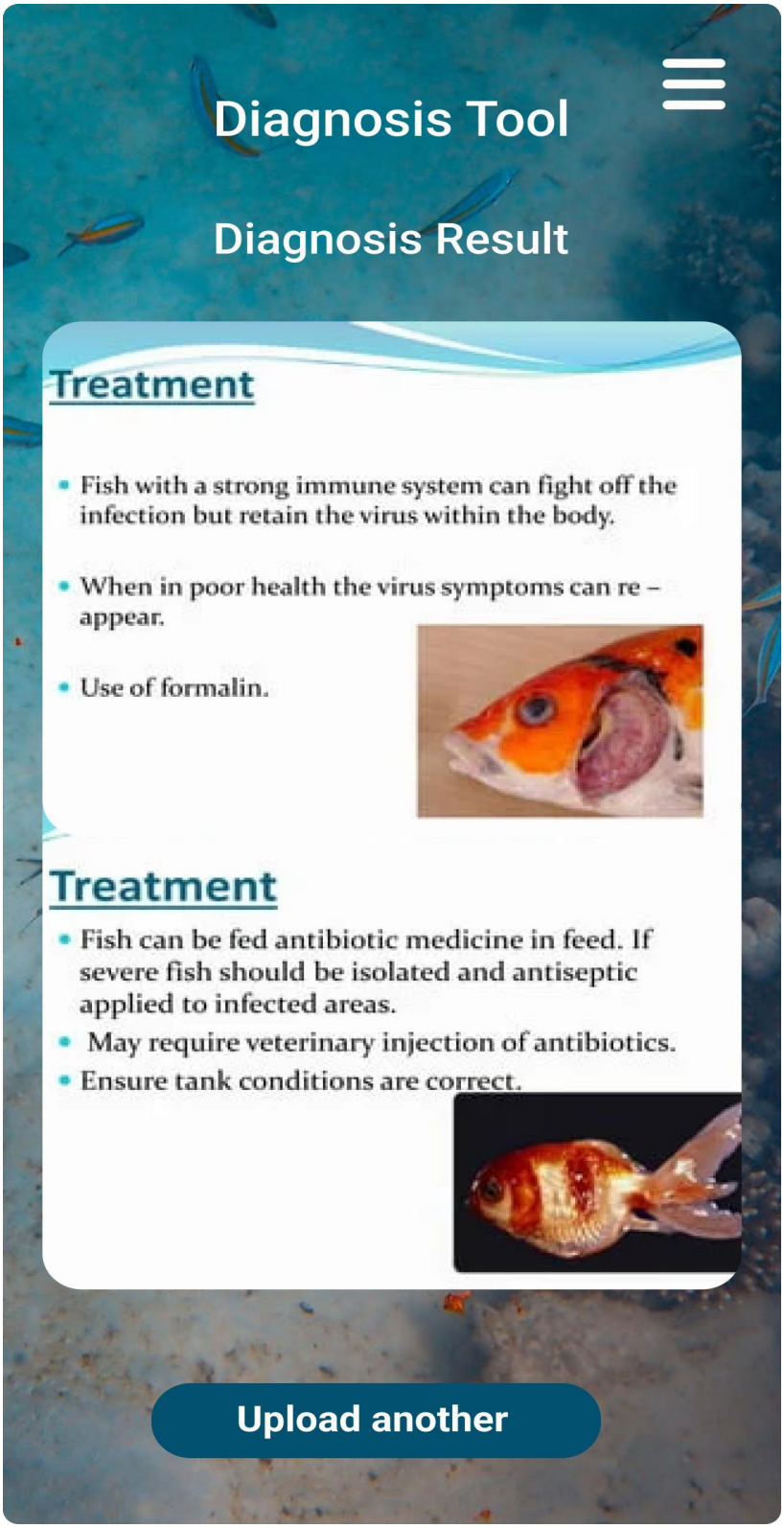

Figure 12: Diagnosis Result next page

12.Diagnosis Result Next Page: The Diagnosis Result Next Page within the AquaMed application extends the functionality of the Diagnosis Result Page, allowing users to explore additional fish diseases detected from uploaded images. This report outlines the seamless continuation of multi-disease analysis offered by the Diagnosis Result Next Page, emphasizing its role in providing comprehensive insights into fish health.

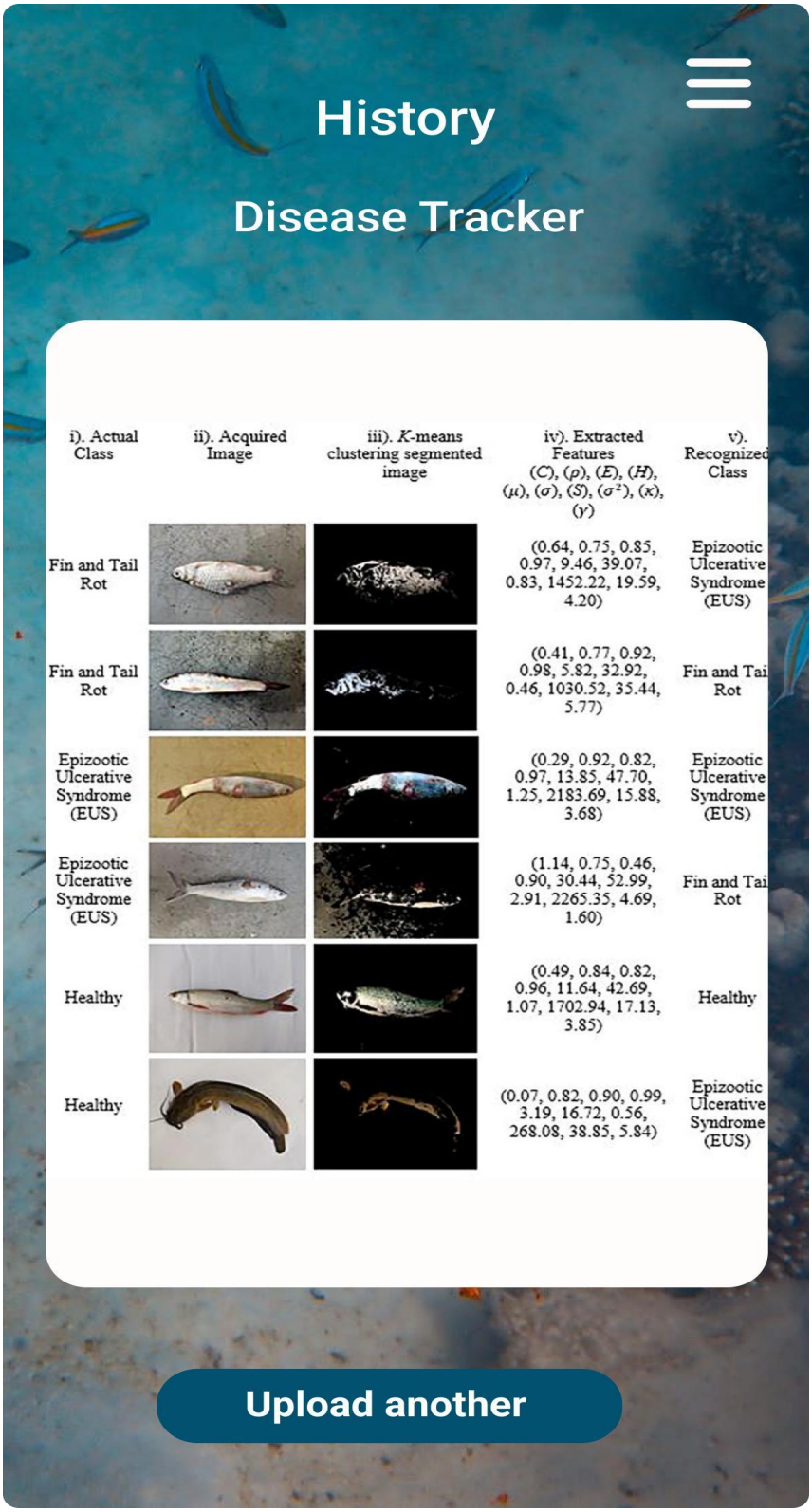

Figure 13: History page

13.HistoryPage: The History Page within the AquaMed application serves as an invaluable resource for users to access a comprehensive archive of past fish disease detections. This report highlights the key features and functionalities of the History Page, emphasizing its role in providing users with a historical record of fish health management efforts.

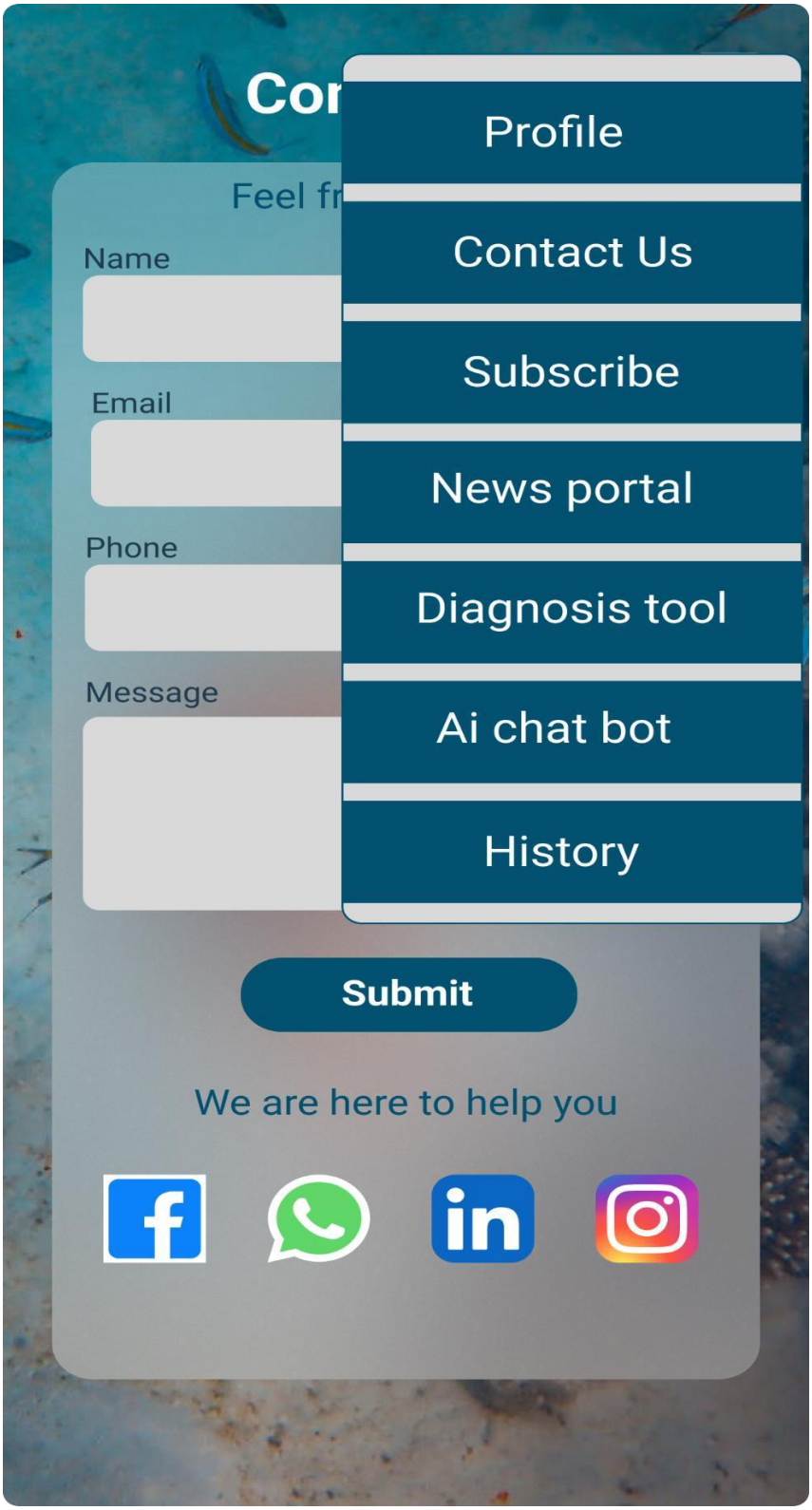

Figure 14: Menu

14.Menu Page: The Menu Page within the AquaMed application serves as a centralized navigation hub, offering users easy access to a comprehensive range of features and functionalities. This report outlines the key options available on the Menu Page, highlighting its role in facilitating seamless navigation and user engagement.

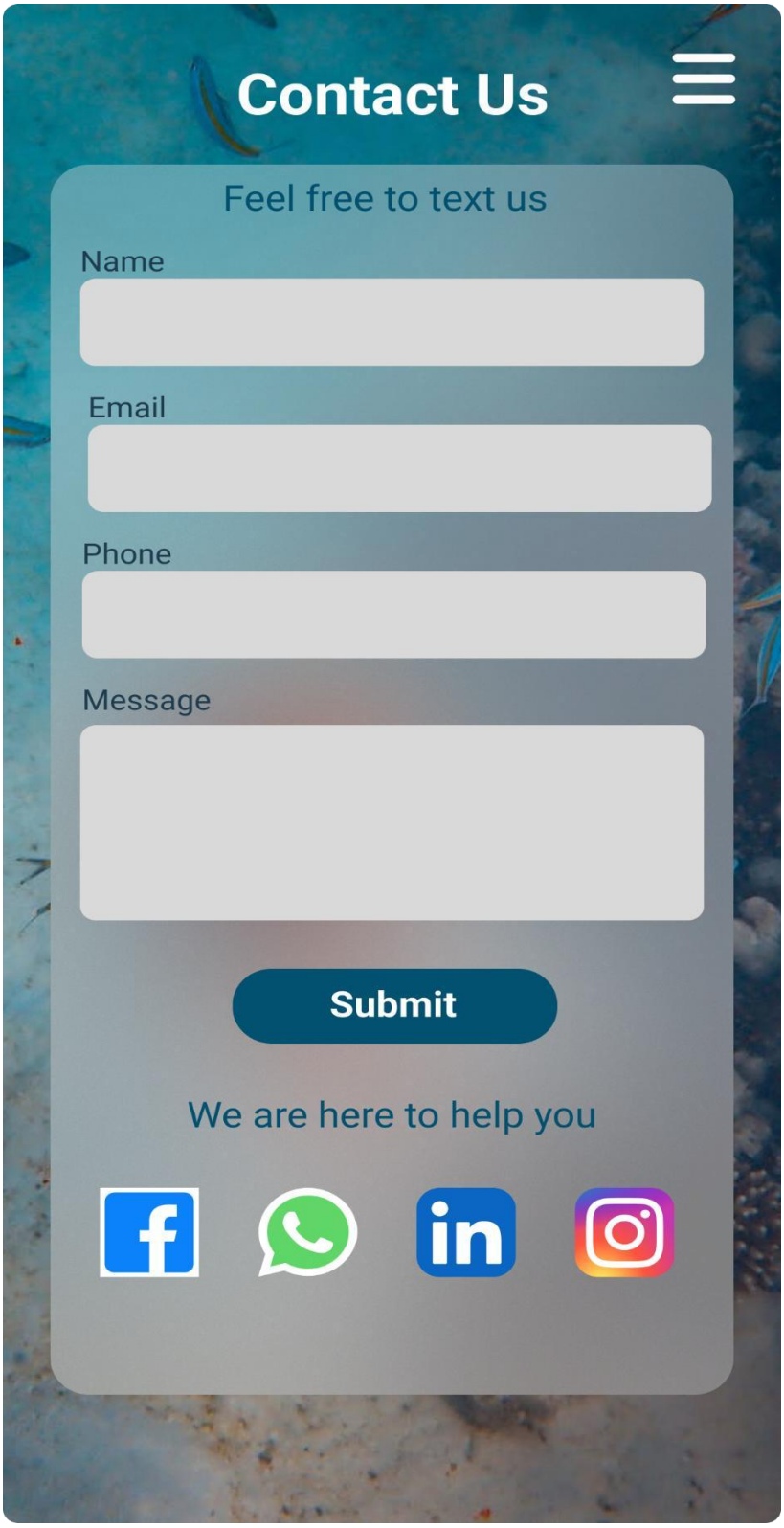

Figure 15: Contact Us page

15.Contact Us Page: The Contact Us Page within the AquaMed application serves as a convenient communication channel for users to connect with the platform administrators. This report outlines the key features and functionalities of the Contact Us Page, emphasizing its role in facilitating seamless user engagement and support.