Sri Lanka Institute of Information Technology

Software Engineering Practices (IT5030)

Continuous Assignment – 2025, Semester 1/2

DiveMaster – Diving Certificates Management System Product Backlog

Group Name: Code Crafters



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1. Introduction

The DiveMaster - Diving Certificates Management System is a digital platform designed to streamline diving certifications, scheduling, assessments, and equipment tracking. The product backlog provides a structured list of requirements and features that will be developed in an iterative manner following the Agile Scrum methodology.

2. Product Backlog

ID	User Story	Initial Estimate	Sprint 1	Sprint 2	Sprint 3
GU-01	As a guest user, I want to browse available diving courses and sessions so that I can understand training opportunities before registering.	2			
GU-02	As a guest user, I want to request an account so that I can enroll in a diving course or make a reservation.	4			
GU-03	As a guest user, I want to reset my password in case I forget it so that I can regain access to my account.	4			
RD-01	As a recreational diver, I want to create an account and log in so that I can access my diving course details, schedules, and progress.	4			
RD-02	As a recreational diver, I want to book a training or recreational dive session so that I can participate in a dive at my preferred location and time.	6			
RD-03	As a recreational diver, I want to modify or cancel my booking so that I can adjust my schedule based on availability.	2			
RD-04	As a recreational diver, I want to view my past and upcoming dive bookings so that I can keep track of my diving schedule.	2			
RD-05	As a recreational diver, I want to log my dive details (depth, duration, environmental conditions) so that I can maintain an accurate record.	4			
RD-06	As a recreational diver, I want my instructor to review and approve my dive log so that my training progress is validated.	3			
RD-07	As a recreational diver, I want to complete online learning modules and assessments so that I can prepare for my certification.	3			
RD-08	As a recreational diver, I want to receive my digital certification after completing my	3			

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	assessments so that I can verify my			
	credentials.			
RD-09	As a recreational diver, I want to download	2		
	and share my certification so that I can prove my qualifications to other dive centers.	3		
	As a recreational diver, I want to check			
	available equipment before my scheduled			
RD-10	dive so that I can ensure all necessary gear is	3		
	available.			
	As a recreational diver, I want to receive			
DD 11	automated reminders about my assigned	2		
RD-11	equipment and return schedules so that I can	3		
	follow procedures.			
	As a research diver, I want to create an			
RS-01	account and log in so that I can book dives	3		
	and access research features.			
	As a research diver, I want to schedule a dive			
RS-02	session with specific instructors so that I can	3		
	conduct research with expert guidance.			
DC 02	As a research diver, I want to log marine life	5		
RS-03	observations and environmental conditions so that I can contribute to conservation research.	5		
	As a research diver, I want to take photos and			
RS-04	log species observations for later	3		
KS 01	identification and analysis.	3		
	As a research diver, I want to use an offline			
RS-05	mobile app to capture dive data so that I can	6		
	sync logs later.			
	As a research diver, I want to generate reports			
RS-06	of my tracking records so that I can analyze	3		
	trends in marine biodiversity.			
	As a research diver, I want to choose specific			
RS-07	diving equipment based on my research needs	3		
	so that I can ensure proper gear is available.			
DC 00	As a research diver, I want to receive	2		
RS-08	automated maintenance alerts for assigned equipment so that I can avoid faulty gear.	3		
	As an instructor, I want to log in and view my			
IN-01	assigned students so that I can track their	4		
	training progress.	7		
	As an instructor, I want to accept or request			
IN-02	modifications to my assigned training	6		
	sessions so that I can manage my schedule.	-		
	As an instructor, I want to check confirmed			
IN-03	bookings and assigned students so that I can	4		
	prepare for upcoming sessions.			

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	As an instructor, I want to validate and		
IN-04	approve student dive logs so that their training	2	
	records are accurately maintained.	2	
	As an instructor, I want to report equipment		
IN-05	maintenance issues so that necessary repairs	4	
	can be scheduled.	4	
	As an instructor, I want to conduct and		
IN-06	evaluate student assessments so that I can	4	
	determine their readiness for certification.		
IN-07	As an instructor, I want to provide feedback		
IIN-U/	on student assessments so that students can	2	
	improve their skills and knowledge.		
	As a certification authority, I want to review		
	student performance records so that I can		
CA-01	verify compliance with certification	4	
	standards.		
	As a certification authority, I want to approve		
CA-02	or reject submitted certifications so that only	6	
CA-02		0	
	qualified divers receive credentials.		
CA-03	As a certification authority, I want to generate		
	reports on issued certifications and pass rates	2	
	so that I can track industry trends.		
CA-04	As a certification authority, I want to verify		
	digital certifications so that divers can	4	
	authenticate their credentials easily.		
	addictionate their eledentials easily.		

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