**Diving Center Management System – Deep Blue Diving**

1. Must have features

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| Feature | Description | Time (Senior) | Time (Junior) | Cost (Senior) | Cost (Junior) | Category |
| Core Booking System | Basic booking creation, validation, confirmation emails | 5 days | 7 days | €3,500 | €3,500 | Core |
| Regulatory Compliance System | Spanish maritime regulations, GDPR, insurance, health & safety | 7 days | 10 days | €4,900 | €5,000 | Compliance |
| Customer Management | Customer profiles, contact info, basic booking history | 3 days | 5 days | €2,100 | €2,500 | Core |
| Equipment Management | Basic equipment tracking, availability checking | 4 days | 6 days | €2,800 | €3,000 | Core |
| Payment Processing | Stripe integration, payment methods, basic invoicing | 4 days | 6 days | €2,800 | €3,000 | Core |
| Multi-Location Support | Location management, cross-location data | 3 days | 5 days | €2,100 | €2,500 | Core |
| Basic Reporting | Revenue reports, booking statistics, monthly summaries | 3 days | 5 days | €2,100 | €2,500 | Core |
| Security & Access Control | User authentication, role-based access, data encryption | 4 days | 6 days | €2,800 | €3,000 | Security |
| Basic API | RESTful API for basic integrations | 3 days | 5 days | €2,100 | €2,500 | Integration |
| Installation & Setup | Server setup, database migration, email config | 4 days | 6 days | €2,800 | €3,000 | Setup |
| Training & Documentation | User training, technical documentation | 3 days | 4 days | €2,100 | €2,000 | Setup |
| TOTAL MUST HAVE | 14 features | 45 days | 68 days | €31,500 | €34,000 | Core System |

1. Should have features

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| Feature | Description | Time (Senior) | Time (Junior) | Cost (Senior) | Cost (Junior) | Category |
| Volume Discount Pricing | Tiered pricing system (1-2, 3-5, 6-8, 9+ dives) | 3 days | 5 days | €2,100 | €2,500 | Revenue |
| Multi-Agency Certification | SSI, PADI, CMAS, VDST API integration | 5 days | 8 days | €3,500 | €4,000 | Certification |
| Night Dive Addons | Add-night-dive functionality, scheduling | 2 days | 3 days | €1,400 | €1,500 | Operations |
| Personal Instructor Addons | Private instructor booking system | 2 days | 3 days | €1,400 | €1,500 | Operations |
| Equipment Barcode System | Barcode scanning for equipment tracking | 3 days | 5 days | €2,100 | €2,500 | Operations |
| Equipment Maintenance | Maintenance scheduling, automated reminders | 3 days | 5 days | €2,100 | €2,500 | Operations |
| Advanced Customer Profiles | Certification tracking, medical clearances, preferences | 4 days | 6 days | €2,800 | €3,000 | Customer |
| Cross-Period Stay Pricing | Price changes during long stays, volume discounts | 4 days | 6 days | €2,800 | €3,000 | Revenue |
| Government Bono System | Discount codes and full payment vouchers | 3 days | 5 days | €2,100 | €2,500 | Revenue |
| Multilingual Support (5 languages) | Spanish, English, German, French, Italian content | 5 days | 7 days | €3,500 | €3,500 | Customer |
| Automated Notifications | Email, SMS notifications for bookings, weather alerts | 3 days | 5 days | €2,100 | €2,500 | Operations |
| Advanced Reporting | Revenue analytics, demand forecasting, KPI tracking | 4 days | 6 days | €2,800 | €3,000 | Analytics |
| Real-Time Dashboard | Live operations, financial monitoring, performance metrics | 4 days | 6 days | €2,800 | €3,000 | Analytics |
| Loyalty Program | Points system, rewards, customer retention | 3 days | 5 days | €2,100 | €2,500 | Revenue |
| Equipment Transfer System | Inter-location equipment transfers, tracking | 2 days | 3 days | €1,400 | €1,500 | Operations |
| Weather Integration | Live weather data, dive restrictions, alerts | 3 days | 5 days | €2,100 | €2,500 | Operations |
| Automated Invoicing | Generate invoices, payment tracking, reminders | 3 days | 5 days | €2,100 | €2,500 | Finance |
| Multi-Currency Support | Handle EUR, GBP, USD conversions | 3 days | 5 days | €2,100 | €2,500 | Finance |
| TOTAL | 18 features | 57 days | 88 days | €39,900 | €44,000 | Enhanced System |

1. Could have features

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| Feature | Description | Time (Senior) | Time (Junior) | Cost (Senior) | Cost (Junior) | Category |
| Progressive Web App (PWA) | App-like experience, offline capability | 5 days | 8 days | €3,500 | €4,000 | Mobile |
| Native Mobile App (iOS/Android) | Full native apps with GPS, camera, push notifications | 10 days | 15 days | €7,000 | €7,500 | Mobile |
| AI-Powered Scheduling | Automated staff scheduling, optimization | 4 days | 6 days | €2,800 | €3,000 | Automation |
| Predictive Maintenance | AI-based equipment failure prediction | 4 days | 6 days | €2,800 | €3,000 | Automation |
| Chatbot Integration | Automated customer service chatbot | 3 days | 5 days | €2,100 | €2,500 | Automation |
| Smart Recommendations | AI-driven activity suggestions, dynamic pricing | 4 days | 6 days | €2,800 | €3,000 | Automation |
| IoT Equipment Integration | Sensors, GPS tracking, real-time monitoring | 5 days | 8 days | €3,500 | €4,000 | Advanced |
| Advanced Business Intelligence | Predictive analytics, trend analysis, forecasting | 5 days | 8 days | €3,500 | €4,000 | Analytics |
| Social Media Integration | Automated posts, photo sharing, reviews | 3 days | 5 days | €2,100 | €2,500 | Marketing |
| Customer Journey Tracking | Pre/during/post-stay experience management | 6 days | 9 days | €4,200 | €4,500 | Customer |
| Third-Party Integrations | Booking.com, TripAdvisor, Google Calendar | 4 days | 6 days | €2,800 | €3,000 | Integration |
| White-Label Options | Branded interfaces, custom domains | 3 days | 5 days | €2,100 | €2,500 | Branding |
| Voice Commands | Voice-activated booking, equipment check | 4 days | 6 days | €2,800 | €3,000 | Advanced |
| Augmented Reality | AR equipment identification, dive site visualization | 6 days | 10 days | €4,200 | €5,000 | Advanced |
| Dynamic Pricing Engine | AI-based pricing optimization | 5 days | 8 days | €3,500 | €4,000 | Revenue |
| Customer Lifetime Value | Advanced customer analytics, segmentation | 4 days | 6 days | €2,800 | €3,000 | Analytics |
| Multi-Factor Authentication | Enhanced security with 2FA, biometrics | 3 days | 5 days | €2,100 | €2,500 | Security |
| Advanced Monitoring | Real-time alerts, performance monitoring | 3 days | 5 days | €2,100 | €2,500 | Operations |
| TOTAL COULD HAVE | 18 features | 77 days | 122 days | €53,900 | €61,000 | Premium System |

1. **Cost breakdown**

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| Priority | Features | Days (Senior) | Days (Junior) | Cost (Senior) | Cost (Junior) |
| Must Have | 14 | 45 | 68 | €31,500 | €34,000 |
| Should Have | 18 | 57 | 88 | €39,900 | €44,000 |
| Could Have | 18 | 77 | 122 | €53,900 | €61,000 |
| TOTAL | 50 features | 179 days | 278 days | €125,300 | €139,000 |

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| Group | Phase | Duration | Features | Cost |
| Senior Developer | Phase 1: Must Have | 6 weeks | 14 core features | €31,500 |
| Senior Developer | Phase 2: Should Have | 4 weeks | 18 enhanced features | €39,900 |
| Senior Developer | Phase 3: Testing | 2 weeks | Integration, testing, deployment | €14,000 |
| Senior Developer | Phase 4: Advanced (Optional) | 10 weeks | 18 premium features | €53,900 |
| Senior Developer | TOTAL (Must + Should) | 8 weeks | 32 features | €85,400 |
| Senior Developer | TOTAL (All Features) | 22 weeks | 50 features | €139,300 |

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| Group | Phase | Duration | Features | Cost |
| Junior Developer | Phase 1: Must Have | 10 weeks | 14 core features | €34,000 |
| Junior Developer | Phase 2: Testing | 2 weeks | Integration, testing, deployment | €7,000 |
| Junior Developer | TOTAL Budget | 12 weeks | 14 features | €41,000 |