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Accoleisure App

**Detailed Action Plan for Accoleisure
Application Update & Re-Deployment**



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ACCCOLEISURE SOLUTIONS

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Introduction

Following our recent discussions, I have drafted a comprehensive action plan to bring the Accoleisure project up to date with the latest technologies and restore full functionality. Given the acquisition by Afrosoft, and the significant changes to both the Flutter framework and backend technologies, it is critical that we address the current gaps to ensure smooth integration and alignment with new operational requirements.

Application Overview

The Accoleisure app is designed to provide [specific features such as event booking, membership management, notifications, etc.]. The platform consists of a user-facing mobile app built with Flutter and a management back-end written in PHP with RedBeanPHP as the ORM for data handling. The back end handles critical functions such as:

- **User Registration and Authentication**
- **Payment Processing and Wallet Integration**
- **Content Management and Notifications**
- **Data Analytics and User Activity Monitoring**
- **Admin Controls and Role-Based Access Management**

The entire infrastructure is assumed to be hosted on cloud services, ensuring scalability and reliable data storage.

1. Required Resources

Human Resources:

- **Lead Mobile Developer (Flutter/Dart):** Full-time, responsible for refactoring the front-end mobile application to be compatible with the latest Dart specification, addressing deprecated libraries, and ensuring feature parity with the current version.

- **Effort:** 8-10 weeks
- **Estimated Cost:** \$3500
- **Backend Developer (PHP/ORM):** Full-time, tasked with updating the backend services, transitioning from RedBeanPHP to a more modern ORM (e.g., Eloquent or Doctrine), and ensuring cloud services integration.
 - **Effort:** 4-6 weeks
 - **Estimated Cost:** \$3000
- **Cloud Infrastructure Specialist:** Part-time, tasked with auditing current cloud resources, optimizing for the updated codebase, and managing cloud deployments.
 - **Effort:** 2-3 weeks
 - **Estimated Cost:** \$1000
- **QA/Testing Specialist:** Part-time, responsible for testing the app on both the frontend and backend, ensuring the new codebase functions seamlessly in the cloud environment.
 - **Effort:** 3-4 weeks
 - **Estimated Cost:** \$1000
- **Project Manager:** To oversee timelines, coordinate resources, and ensure clear communication with Afrosoft's management team.
 - **Effort:** Part-time over the entire project duration
 - **Estimated Cost:** \$1000

Total Human Resource Cost: \$9500

Technological Resources:

- **Flutter & Dart SDK:** Update to the latest versions for compatibility with current technologies.
 - **Cost:** Free (Open source)
- **PHP ORM:** Migration from RedBeanPHP to a modern ORM such as Eloquent or Doctrine.
 - **Cost:** Free (Open source)
- **Cloud Services:** Optimized use of cloud services such as AWS or Google Cloud for hosting, data storage, and scalability.
 - **Cost:** \$0
- **Development Tools:** IDE licenses for developer environments (if needed, e.g., JetBrains PHPStorm).
 - **Cost:** \$40
- **Testing Tools:** Automated testing frameworks (e.g., Flutter testing library, PHPUnit for the backend).
 - **Cost:** Free (Open source)

Total Technological Resource Cost: \$40

2. Realistic Timelines

1. **Assessment and Planning (1-2 weeks):**

- Review the existing codebase to identify deprecated components and align it with the updated Dart specification. Conduct an audit of the cloud infrastructure to identify necessary optimizations.
- Outcome: Full documentation of technical needs and resource allocation.

2. **Codebase Update (4-6 weeks):**

- **Front-end:** Refactor the mobile application code to align with Flutter's latest versions and Dart specification, ensuring that the UI/UX remains unchanged and user centric.
- **Back-end:** Update the PHP code, replacing RedBeanPHP with a more efficient ORM (such as Eloquent or Doctrine), and ensure that all cloud services integrations (e.g., database, storage, payment) remain functional.

3. **Cloud Infrastructure Optimization (2-3 weeks):**

- Ensure that the application utilizes scalable, secure, and cost-efficient cloud infrastructure, particularly for real-time data services, push notifications, and user activity tracking.

4. **Testing & Debugging (2-3 weeks):**

- Comprehensive testing across both front-end and back-end components, including unit testing, integration testing, and user acceptance testing, with an emphasis on cloud-based performance.

5. **Deployment & Final Adjustments (1-2 weeks):**

- Deploy the updated application to production on the cloud, and make final adjustments based on testing feedback.

Total Estimated Timeline: 8-13 weeks, depending on complexity.

3. Key Milestones and Deliverables

- **Milestone 1 (Week 1-2):** Completion of codebase and infrastructure assessment.
- **Milestone 2 (Week 4-6):** Completion of front-end and back-end code updates, including cloud services optimization.
- **Milestone 3 (Week 8-10):** Completion of testing and debugging, ensuring performance in a cloud environment.
- **Milestone 4 (Week 12-13):** Deployment and final handover of the updated system, along with updated documentation and training where needed.

Next Steps

Once this action plan is reviewed and approved, we can proceed with allocating the necessary resources and kick off the project. I will provide a detailed cost breakdown and keep the team updated on progress throughout the entire update process.