Proposal for ARI Database Management System (Web Portal)

1. Project Overview

To design and develop a **web-based ARI Database Management System** to streamline and securely manage data related to:

1. Countries
2. Country Regions
3. Estimate Type
4. LCU
5. Wages

The portal will be built using **Laravel (PHP Framework)** and **MySQL Database**, providing administrators with a secure, user-friendly interface to enter, update, and visualize data effectively.

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2. Objectives

- Provide an intuitive and responsive web portal for data management.
- Enable secure login for authorized administrators.
- Facilitate an efficient data entry process with advanced validation.
- Allow data filtering and searching.
- Offer graphical visualization of wage data.
- Enable data export in **Excel** and **PDF** formats.
- Deploy the solution on **Hostinger Premium Hosting** with a dedicated domain.

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3. Key Features & Functionality

Admin Dashboard: Secure login system to access admin functionalities.
Data Management Modules:

- Add, update, and manage data in Countries, Country Regions, Estimate Type, LCU, and Wages tables.
- Filter and search data easily.

Data Visualization:

- Generate graphical charts and reports for wage data.

Export Functionality:

- Export filtered data to Excel and PDF formats.

Responsive Design:

- Mobile-friendly and works seamlessly on all modern browsers.

Security Features:

- Encrypted passwords using Laravel's hashing.
- Use of Laravel's built-in CSRF and XSS protection.
- Database secured via secure credentials and limited remote access.
- SSL certificate (via Hostinger) to encrypt data in transit.

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4. Technical Stack

- **Backend:** Laravel (PHP Framework)
- **Database:** MySQL
- **Frontend:** Blade templating engine, HTML5, CSS3, JavaScript
- **Hosting:** Hostinger Premium Hosting
- **Domain:** Custom domain for the portal

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5. Project Timeline

The estimated duration for completion is **5 to 6 weeks** as follows:

Phase	Timeline
Requirement Gathering & Design	1 week
Backend & Database Development	2 weeks
Frontend Development & UI/UX	1 week
Reporting & Visualization	1 week
Testing & Deployment	1 week
Total	**5–6 weeks**

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6. Cost Breakdown

Item	Cost
Design & Development	£1200

Item	Cost
Reporting & Data Visualization Module	£600
Total Project Cost (Excl. Hosting)	**£1800**

7. Hosting & Domain Cost (Approximate)

Item	Cost (Annual)
Hostinger Premium Hosting (1 year)	~£100–£120
Domain Registration (1 year)	~£10–£15
Total	**~£110–£135/year**

These are estimates based on current Hostinger prices and may vary slightly.

8. Data Security on Hosting

- Hostinger provides **free SSL certificates** to encrypt all communication.
- Database access restricted to specific server IPs.
- Regular backups and updates.
- Use of Laravel security best practices: hashed passwords, token-based protection, and environment configuration outside the web root.

Conclusion

The ARI Database Management System will simplify data entry and reporting, improve data accuracy, and enhance data-driven decision-making. The proposed cost-effective solution, built on modern and secure technologies, ensures scalability and reliability.