

# PASHA Benefits Portal - Implementation Guide

This document provides a comprehensive guide to the PASHA Benefits Portal implementation using the LAMP (Linux, Apache, MySQL, PHP) stack.

## System Overview

The PASHA Benefits Portal is a web application that allows:

1. **Public Users** to browse benefit offers and verify membership status
2. **Admin Users** to manage members, partners, offers, and system settings
3. **Partner Users** to verify member status and manage their profiles

## Technology Stack

- **Linux**: Operating system for hosting the application
- **Apache**: Web server with mod\_rewrite for clean URLs
- **MySQL**: Database for storing all application data
- **PHP**: Server-side programming language (PHP 7.4+ recommended)

## Directory Structure

```
pasha-benefits/
├── config/           # Configuration files
│   ├── config.php   # Main configuration file
│   └── database.php  # Database connection settings
├── public/          # Publicly accessible files
│   ├── index.php    # Main entry point
│   ├── assets/      # CSS, JS, images
│   └── .htaccess     # Apache configuration
├── app/             # Application code
│   ├── controllers/ # Controller classes
│   ├── models/      # Database models
│   ├── views/       # Templates and UI
│   ├── middleware/  # Authentication middleware
│   └── helpers/     # Utility functions
├── data/            # Data storage (logs, cache)
│   ├── logs/        # Application logs
│   └── cache/        # Cached data
├── vendor/          # Third-party libraries (via Composer)
└── scripts/         # Deployment and maintenance scripts
```

## Key Components

### Models

1. **MemberModel**: Manages member data and verification
2. **OfferModel**: Handles benefit offers and categories
3. **PartnerModel**: Manages partner organizations
4. **UserModel**: Handles user authentication and management
5. **ActivityLogModel**: Tracks user activity for auditing

### Controllers

1. **HomeController:** Public homepage and main navigation
2. **AuthController:** User authentication (login, logout, password reset)
3. **MemberController:** Member verification functionality
4. **OfferController:** Public offer browsing and details
5. **AdminController:** Admin dashboard and management functions
6. **PartnerController:** Partner portal functionality
7. **PageController:** Static pages (about, contact)
8. **ReportController:** Generate and export reports

## Views

1. **Public Views:** Homepage, offer listings, verification forms
2. **Admin Views:** Dashboard, member/offer/partner management
3. **Partner Views:** Dashboard, verification, profile management
4. **Authentication Views:** Login, password reset forms

## Database Schema

The application uses several relational tables to store data:

1. **members:** Store member organization information
2. **users:** System users (admin, staff, partner)
3. **partners:** Partner organizations offering benefits
4. **offers:** Benefit offers with details
5. **verifications:** Log of membership verifications
6. **activity\_logs:** Audit trail of user actions
7. **settings:** System-wide configuration settings

## Core Features

### Public Features

1. **Offer Browsing:** View available benefits, filter by category
2. **Member Verification:** Verify membership status
3. **Informational Pages:** About and contact information

### Admin Portal

1. **Dashboard:** Overview of key metrics and statistics
2. **Member Management:** Add, edit, and deactivate members
3. **Offer Management:** Create and manage benefit offers
4. **Partner Management:** Add and manage partner organizations
5. **User Management:** Create and manage system users
6. **Reports:** Generate and export various reports
7. **Activity Logging:** Comprehensive audit trail
8. **Settings:** Configure system behavior and appearance

### Partner Portal

1. **Member Verification:** Verify PASHA membership status
2. **Profile Management:** Update partner information
3. **Verification History:** View past verification activities

## Security Measures

1. **Authentication:** Secure login with password hashing
2. **Role-Based Access Control:** Different permissions by user role

3. **CSRF Protection:** Prevent cross-site request forgery
4. **Input Validation:** Server-side validation of all inputs
5. **Prepared Statements:** Protection against SQL injection
6. **Activity Logging:** Audit trail of all important actions
7. **Password Reset:** Secure password reset functionality
8. **Session Management:** Secure handling of user sessions

## Installation Guide

### 1. Prerequisites:

- Linux server with Apache (mod\_rewrite enabled)
- MySQL 5.7+ or MariaDB 10.2+
- PHP 7.4+ with required extensions
- Composer (for dependencies)

### 2. Database Setup:

- Create a new MySQL database
- Import the database schema from `scripts/db-schema.sql`
- Create an admin user: `php scripts/create-admin.php`

### 3. Application Setup:

- Clone the repository to your server
- Run `composer install` to install dependencies
- Copy `config/config.example.php` to `config/config.php` and customize
- Copy `config/database.example.php` to `config/database.php` and set credentials
- Ensure the `data/` directory is writable by the web server
- Configure Apache to point to the `public/` directory

- Ensure mod\_rewrite is enabled for clean URLs

#### 4. **Configuration:**

- Update settings in the admin panel
- Add initial members, partners, and offers
- Configure email settings if needed

## **Deployment Recommendations**

### 1. **Production Environment:**

- Enable HTTPS and configure security headers
- Set up proper file permissions
- Configure MySQL for optimal performance
- Set up regular backups

### 2. **Performance Optimization:**

- Enable PHP OpCache
- Configure browser caching for static assets
- Consider a CDN for images and other media
- Set up database indexing for improved query performance

### 3. **Maintenance:**

- Set up regular database backups
- Monitor error logs
- Update dependencies regularly
- Consider setting up monitoring for uptime alerts

## **Customization Options**

### 1. **Branding:**

- Update logo and site name in settings
- Customize CSS styles for your organization
- Modify email templates

### 2. **Features:**

- Enable/disable verification functionality
- Configure offer categories
- Customize user roles and permissions

## **Troubleshooting**

### 1. **Common Issues:**

- Permissions problems: Ensure proper directory permissions
- Database connection issues: Check credentials and server availability
- URL rewriting issues: Verify Apache configuration

### 2. **Logging:**

- Check application logs in `data/logs/`
- Check Apache error logs
- Enable debugging in development environments

## **Further Development**

### 1. **Potential Enhancements:**

- API for mobile application integration
- Email notifications for new offers
- Member login area for exclusive content

- Advanced analytics and reporting
- Integration with CRM or membership management systems

## **Support**

For questions, issues, or feature requests, please contact the development team.