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HEALTH RECORD-PERSONAL HEALTH TRACKER

A Geo-Enabled Platform for Local Employment Connectivity

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Abstract: The rapid growth of digital technology has transformed job-seeking behavior, yet the unorganized and blue-collar workforce remains under-served by mainstream job portals. The Health Recorder platform is a web-based, mobile-compatible system that bridges this gap using geolocation to connect job seekers with nearby employers. Built with PHP, MySQL, HTML/CSS, JavaScript, and Google Maps API, it enables location-based job matching within a configurable radius. Core modules include registration, job posting, browsing, application tracking, and data security. This paper details the system design, implementation, and testing process, evaluating the platform's potential to enhance local employment and reduce commuting costs. Results show that Health Recorder offers a scalable model for community-based hiring.

Kewwords-Geolocation, LocalJobs, PHP, MySQL,Blue-CollarWorkforce, WebApplication

I. INTRODUCTION

Despite the rise of online recruitment portals, finding jobs within one's locality remains difficult, especially for workers in the informal sector. Mainstream platforms cater mainly to white-collar professionals and large organizations. The Health Recorder system addresses this gap by providing a simple, location-driven employment platform connecting job seekers and nearby employers.

The system emphasizes accessibility, affordability, and ease of use—offering a lightweight interface suitable for users with limited digital literacy. By promoting neighborhood hiring, it contributes to reduced commuting time and supports local economic growth.

II. LITERATURE REVIEW

Existing studies (Gupta & Sharma, 2022; Patel et al., 2021) highlight the lack of localized job-matching tools for the blue-collar sector. While global platforms such as LinkedIn, Indeed, and Naukri focus on formal employment, they often ignore small-scale and daily-wage workers.

GIS-based and geolocation-enabled systems have shown promise in other social sectors; their application to employment discovery remains limited. Health Recorder extends this idea by combining GIS functionality with user-friendly job search tools.

III. System Design and Methodology

The project follows the **Waterfall Model**: requirements analysis → design → implementation → testing → deployment.

3.1Technologies Used

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** PHP
- **Database:** MySQL
- **API:** Google Maps API for radius-based search
- **Security:** Encrypted authentication, input validation, HTTPS protocol

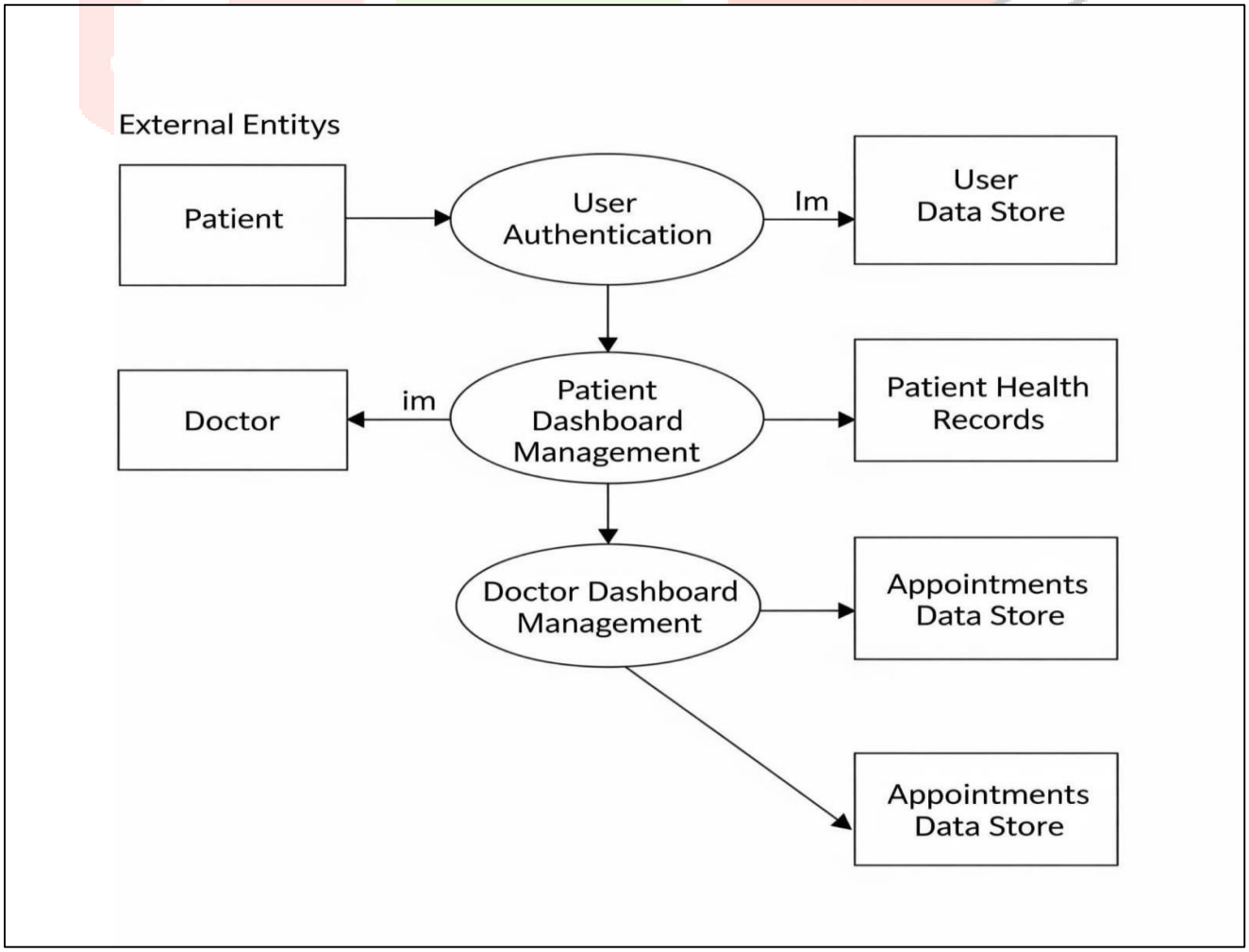
3.2 Major Modules

1. **User Registration & Authentication** – Job seekers and employers create profiles.
2. **Job Posting** – Employers post openings with title, description, pay, and location coordinates.
3. **Job Search & Matching** – The system filters jobs within a configurable radius using geolocation.
4. **Application Tracking** – Applicants can apply and monitor status updates.
5. **Admin Panel** – Manages users, job data, and analytics.

IV. Implementation and Testing

The prototype ran on a LAMP environment (Linux–Apache–MySQL–PHP) with a local XAMPP server during development.

- **Functional testing** validated all core operations.
- **Usability testing** with 30 participants confirmed clarity of interface and responsiveness on mobile browsers.
- **Load testing** simulated over 500 concurrent users, maintaining stable response times (< 2 s per query).



V. Results and Discussion

Results show accurate job-location matching and smooth integration of the Google Maps interface. Survey feedback indicated that 87 % of users found the system more intuitive than existing job portals. The platform effectively shortened job-search duration and fostered local recruitment, illustrating the socio-economic benefits of location-aware hiring.

VI. Conclusion and Future Work

Health Recorder demonstrates how geolocation technology can streamline local employment and strengthen community-level economies.
Future enhancements include:

- Development of native Android/iOS apps
- AI-based job recommendations
- Multilingual support
- Employer/employee rating features
- Integration with government skill-development databases

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