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Metier: A Mobile Job Search Platform with Aptitude Testing, Resume Building and ATS Compliance

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ABSTRACT

The competitive job market demands platforms that integrate job discovery, skill assessment, and resume optimization. This paper introduces *Métier*, a Flutter-based mobile application designed to bridge gaps in existing job portals by offering real-time job searches, aptitude testing, and ATS-compliant resume validation. A survey of 204 users revealed **73% freshers** prioritize resume validation (42.6%) and modern UI (37.3%). The app uses Firebase for backend operations, ensuring scalability and real-time updates. Findings highlight the need for integrated tools like AI-driven job matching and localized content to enhance employability.

Keywords: Job Search, Flutter, ATS Compliance, Aptitude Testing, Firebase.

1. Introduction

Traditional job platforms often lack features tailored to freshers, such as skill alignment tools and resume optimization. *Métier* addresses these gaps by offering:

- **Real-time job search** with filters (role, location, salary).
- **Aptitude tests** categorized by skill (quantitative, logical reasoning).
- **Resume validation** against ATS standards.
- **Saved jobs** and personalized dashboards.

Built with **Flutter** (frontend) and **Firebase** (backend), the app ensures cross-platform compatibility and secure data management.

2. Methodology

2.1 Data Collection

- **Primary Data:** Surveys (Google Forms) from 204 students and freshers.
- **Secondary Data:** Analysis of platforms like LinkedIn and Naukri.

2.2 Tools

- **Flutter:** For responsive UI (grid/list view toggles, dark mode).
- **Firebase:** Authentication, Firestore (job data), and Cloud Storage (resumes).
- **Survey Tools:** Quantitative analysis via Excel.

3. Results and Discussion

3.1 Key Findings

- **User Demographics:** 41.2% undergraduates, 73% freshers.

- **Feature Preferences:**
 - 42.6% prioritized ATS resume checks.
 - 37.3% favored modern UI with animations.
 - 40.7% emphasized company logo visibility.
- **Job Search Behavior:**
 - 36.3% used LinkedIn; 33.8% desired aptitude-based job matching.

3.2 Technical Outcomes

- **App Performance:** Smooth operation on low-end Android devices (8GB RAM).
- **Firebase Integration:** Real-time job updates and session management.

3.3 Challenges

- Basic AI implementation (future scope: ChatGPT integration).
- Limited iOS support (pending cross-platform updates).

4. Conclusion and Future Work

Métier successfully addresses inefficiencies in job portals by merging skill assessment, resume optimization, and real-time search. Survey results validate the demand for integrated tools, especially among freshers. Future enhancements include:

- **AI-Driven Job Matching:** Using NLP for personalized suggestions.
- **Localization:** Expanding to Tamil and other regional languages.
- **Freelance Job Listings:** Catering to gig economy trends.

Ethical Approval: Survey participants provided informed consent.

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