**OPEN SOURCE & HOSTING**

**MessFinder** is an open-source web app built with modern frontend technologies and hosted on a reliable cloud platform to ensure performance, availability, and ease of deployment.

**Open-Source Codebase**

* **Version Control:** Managed with Git, hosted on GitHub for collaboration and transparency.
* **Tech Stack:**
  + *Frontend :* React.js, JavaScript (ES6+), Tailwind CSS
  + *Backend :* Firebase
  + *Routing :* React Router
  + *State Management:* React Hooks, Context API

**Deployment & Hosting**

* **Platform:** Hosted on Vercel, optimized for React apps.
* **CI/CD:** Auto-deploys on GitHub push.
* **Build:**
  + Command: npm run build
  + Output: build/
* **URL:** [mess-finder.vercel.app](https://mess-finder.vercel.app/)
* **Security:** HTTPS enabled by default.

**FUTURE IMPLEMENTATIONS**

MessFinder aims to expand with several impactful enhancements to improve usability, trust, and scalability. Upcoming implementations include:

* Enhanced UI/UX and a faster, smoother experience.
* Stronger security with OTP verification and fraud prevention.
* Map-based search for precise location-based discovery.
* AI-powered suggestions tailored to user behavior and preferences.
* Landlord verification system to ensure authenticity.
* Real-time updates to prevent outdated listings.
* User review/rating system to maintain listing quality.
* Push notifications for updates, messages, and alerts.
* Admin dashboard for analytics, user, and listing management.
* Multilingual support for broader user reach.
* Payment gateway integration for secure online transactions.

No application is ever truly complete. MessFinder will continue to adapt and grow through regular improvements, feedback integration, and technological advancements.

**BIBLIOGRAPHY**

* **React** – A JavaScript Library for Building User Interfaces.

Meta (Facebook), <https://reactjs.org>

*(Accessed: April–May 2025)*

* **Firebase** – App Development Platform.

Google, <https://firebase.google.com>

*(Accessed: May 2025)*

* **MDN Web Docs** – HTML, CSS, JavaScript Documentation.

Mozilla Developer Network, <https://developer.mozilla.org>

*(Accessed: May 2025)*

* **Tailwind CSS** – Utility-First CSS Framework.

Tailwind Labs, <https://tailwindcss.com>

*(Accessed: April–May 2025)*

* **React Router** – Declarative Routing for React.js.

Remix Software, <https://reactrouter.com>

*(Accessed: May 2025)*

* **Google Fonts** – Free Fonts for Web and Mobile Use.

Google, <https://fonts.google.com>

*(Accessed: May 2025)*

* **SVGRepo –** Free SVG Vectors and Icons.

SVGRepo, [https://www.svgrepo.com](https://www.svgrepo.com/)

*(Accessed: April–May 2025)*

* **GitHub –** Code Hosting and Version Control Platform.

GitHub, Inc., <https://github.com>

*(Accessed: April–May 2025)*

* **Unsplash –** Free High-Resolution Images.

Unsplash, <https://unsplash.com>

*(Accessed: April 2025)*