

# 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- Real-time updates to prevent outdated listings.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>  
(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)