

Proposal



Final Project – Proposal Submission

Project Title: ReOwn

Project Description:

"ReOwn" is a web-based platform that allows users to **buy, sell, and exchange used items** safely and efficiently.

The system connects people who want to sell items they no longer need with others searching for affordable second-hand products.

It aims to promote **sustainability, waste reduction**, and **cost-effective purchasing** by creating a trusted community for trading used goods.

Users can post their items with photos and descriptions, browse by category, communicate through chat, and even request product exchanges.

Admins manage listings, monitor reports, and ensure safe interactions between users.

Group Members & Roles:

Name	Role
Mennat-Allah Ashraf Elsayed	Team Leader & Backend Developer & database designer
Somaya medhat Mahdy	Frontend developer & Tester
Amgad Ahmed Salah	UI/UX Designer & Frontend developer
Ahmed Elsayed Ahmed	Frontend developer & Backend developer
Mariam Mohamed Mohamed	Frontend developer & Tester
Hana Elsayed Hassan	Frontend developer & presentation maker

Team Leader:

Menna Elgharabawii

Objectives:

1. Allow users to register, log in, and manage their profiles.
 2. Enable sellers to post, edit, and delete used items.
 3. Implement advanced search and filter features (by category, price, or location).
 4. Build an internal messaging system between buyers and sellers.
 5. Support item exchange requests (swap function).
 6. Provide an admin dashboard for content moderation and category management.
 7. Ensure the platform is secure, responsive, and user-friendly.
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Tools & Technologies:

Layer	Tools & Technologies
Frontend	React.js, HTML, CSS, JavaScript , Tailwind
Backend	Node.js, Express.js
Database	MongoDB
Version Control	Git & GitHub
Design Tools	Figma, Canva (for UI mockups)
Testing	Postman (for API testing)
Hosting	Render / Firebase

Milestones & Deadlines:

Task	Deadline
Proposal preparation and approval	12/10/2025
UI/UX	20/10/2025
Project setup & Database creation	25/10/2025
Core feature implementation (CRUD, login,register)	8/11/2025

Task	Deadline
Home Page & Profile Page & Cart Page & Admin Dashboard & Checkout	15/11/2025
Integration with Backend	17/11/2025
Testing, bug fixing, and documentation	20/11/2025
Final presentation and report submission	28/11/2025

KPIs (Key Performance Indicators):

1. Code Quality & Development

- Clean, modular, and reusable code.
- Clear project folder structure and comments.
- Test coverage for main functions and routes.
- Proper state management on frontend.

2. Performance & Optimization

- API response time under 1 second for standard requests.
- Fast page load times (<2 seconds on desktop).
- Optimized images and caching for repeated users.

3. User Experience (UX)

- Fully responsive design for all devices.
- Simple and intuitive navigation.
- Accessibility (contrast, readable text, clear buttons).
- High user satisfaction in testing feedback.

4. Deployment & Scalability

- Successful deployment on a cloud platform (Render).
- SEO-optimized URLs and metadata for discoverability.

5. Business & Functional Impact

- All core features completed before deadline.

- Smooth transaction flow between buyer and seller.