

Project: HouseHub (Household Hub)

Course: Computer Science Capstone

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1. Introduction

This paper lists the HouseHub system's present shortcomings as well as possible upgrades and future additions. The project's academic character, time constraints, and scope limitations are the main causes of these flaws. Features and enhancements that may be added if work were to continue past the capstone deadline are highlighted in the wishlist.

2. Current Shortcomings

2. 1

Although the user interface is designed to be clean and user-friendly. It lacks:

- Advance accessibility features
- A mobile-first design optimization

The UI meets function requirements but it can be further refined

2.2 Limited Scalability Testing

The system has been tested under a normal level of scenarios or stress for a capstone project it have not been stress test under heavy load conditions.

- Large households with hundreds of chores
- Many concurrent WebSocket users
- High-frequency messaging traffic

2.3 Deployment

HouseHUB is primarily configured for local development at the moment:

- So there is no cloud deployment

3. Wishlist

3.1 Enhanced Task Management

Future versions of HouseHub could include:

- Recurring and scheduled chores
- Task priority levels and deadlines
- Calendar integration (Google Calendar / iCal)
- Visual progress tracking and analytics

3.2 Improved Message Features

Enhancements to messaging system

- File and Image sharing
- Message search and filtering

3.4 Mobile and Cross-Platform Support

A long-term goal is to expand HouseHub beyond a web application:

- Dedicated mobile app (React Native or Flutter)
- Push notifications
- Improved mobile responsiveness