Greenbay

Purpose

A web application for **Buy**, **Exchange**, **Sell** of items. Aimed for a *college* environment where physical communication is very easy between **sellers** and **buyers**. Hence, can be used very effectively. For example, exchange of *novels*, buying *second-hand books* from *seniors* etc.

Scope

Our website provides a common *platform* for the **sellers** and the **buyers** where the sellers put up goods for **sale**. The buyer can find the best price for a particular item(our webiste will *sort* goods according to prices as well). By this, the buyers no longer need to keep moving from *senior to senior* looking for goods which he needs. He can buy them directly through our website and that too at the best price.

Introduction

- ## Existing System

    - Fresher entering college hasd to face an initial period of hustle where he's confused as to where he can get all important goods required for his day to day life. He wanders around for stuff like books(required for his curriculum), drafters, calculators etc.
    - Eventually after a long series of interrogations from various seniors when he finally buys those stuff only to realise that he has been fooled and he could have bought them at a much lower price from someone else. By the time this happens a month of college already withers away.
    - At the same time when a guy moves from the 1st to the 2nd year there are alot of things which become useless to him. For example- a guy in the 1st year needs bicycle which a 4th year student has no use of

- ## Proposed System

    This application promotes the reusability of used items by providing platform to students for follwing.

    - User can post ad for Books, Laptop/Mobile , PG/Hostel and other stationery items.
    - User can update his/her existing ad.
    - User view other ads and get the product he/she is interested in buying.
    - They can also apply filters depending on different criterias.
    - Authentication facility is also provided.
    - User can add products in his/her wishlisht.

- ## Advantages For Students

    - ### For buyers
        - multiple deals for used products you cant find in any other place easily

- You could shortlist products that suit your budgets
- check out photos and even negotiate all from the convenience of your room
- products are available within your campus since the platforms leverage the hyperlocal and neighbourhood classifieds approach.
  - ### For Sellers
  - The ease and simplicity with which a student can post a classifieds ad and reach out to potential buyers within short time span
  - All ads are still free and no money is spent on posting a classifieds ad.
  - There are more chances of you selling a product at your price compared to going through a local broker.

Fucntional Requirements

- ## Seller
  - upload items
    - add description
    - add single or multiple images for the item
    - specify expected price
  - manage uploaded items
  - remove items / update status of items

- ## Buyer
  - search for items
  - Give reviews to items
  - Get seller information

Non-Functional Requirements

- Secure access to consumer's confidential data.
- 24X7 availability.
- Better component design to get better performance at peak time.
- Flexible service based architecture will be highly desirable for future extension.Non-Functional Requirements define system properties and constraints. Various other Non-Functional Requirements are:
  - Security
  - Reliability
  - Maintainability
  - Portability
  - Extensibility
  - Reusability
  - Compatibility
  - Resource Utilization

Software Tools

- **Databse server:** AWS Dynamo(MongoDB) server
- **Client:** Any web browser
- **Development Tools:** VS Code, Git
- **Frontend Stack** HTML, CSS, ReactJs
- **Backend Stack** Express, NodeJS

Deployment

- **Operating System Server**: Window 8, Linux, UNIX

Hardware Specification

- **RAM:** 2GB
- **Processor:** Intel Core i3
- **Hard Disk:** 500GB