Project Proposal

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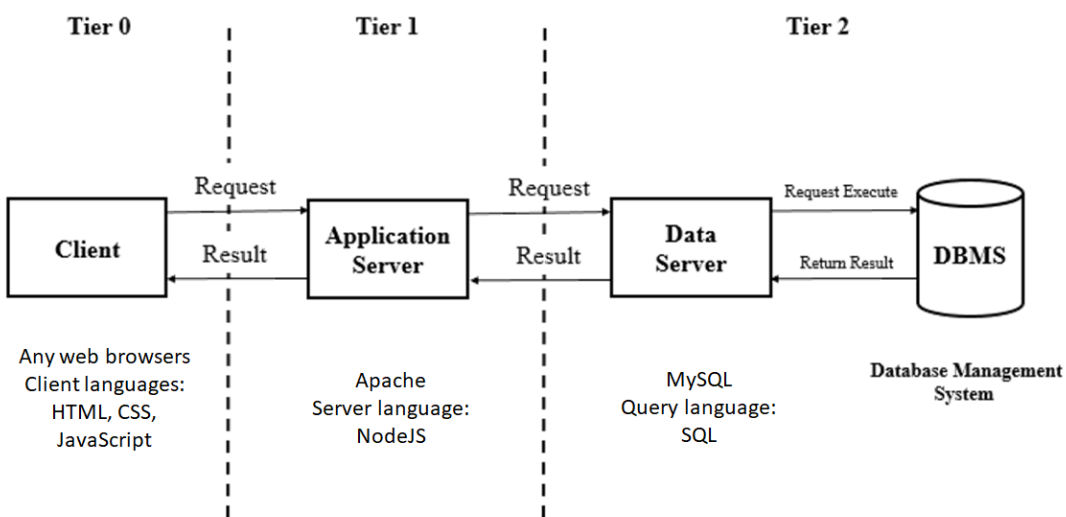
CS157A - Section 01

Team 39

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Grace To

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Project Overview

For our project, we are building an application that will allow households to maintain a centralized shopping list based upon the aggregated, separate lists created by the individuals. For every household, the database will store a list for every household, while also storing the lists of each user within that household. Within the database system, the individual lists will contain the items, the quantity of those items, the priority level of the item, and notes for each item. The stored household list will have the household users names and all household list items ordered in descending priority, the priority level of the item, and the notes for each item. In addition, the database will also hold a record system which will log who bought the items as well as the cost of those items. This allows for repayment should someone other than the requester buy those items for the requester. The main stakeholders are all the households with two members or greater. This application is significant in its approach in the delegation of shopping when time is not optimal. When one individual may already be shopping, he or she will have the ability to buy someone else's items that are on the household master list.

System Environment

Structured diagram of the 3-tier architecture

Functional Requirements

About Users

- The application focuses on each household as a target
- Each household may have two to multiple users

Functionality

- User first creates account for the household
- User signs in to access the system
- User has to enter their name in order to access the data system
- User then choose between personal list and master list
- In personal list, they can enter their own wanted shopping list
- In master list, they can see the total wanted items of everyone in the house in descending priority order
- The person purchased the items can select and enter the price they bought the items
- The application will save the remaining items in the master list, calculate the total amount of the items bought belongs to each individual
- User can log out of the system

Non-functional Issues

We plan to use Adobe XD to design the website interface and Adobe Photoshop to create necessary graphics. Our website should be available 24/7 on any browser, as long as users have access to the internet, and have also made an account for their household. For more enhanced security, we might implement a passcode system for the users within an account, to make sure there is no misuse among users. Users of different accounts should be able to access our website simultaneously without any interruptions while the other users are online.