

**CSP584**  
**Final Project**  
**Homehub**

**Project Overview**

**Team 5**  
**He, Jiaxin A20450323**  
**Huang, Yan A20455326**  
**Liu, Sha A20453259**

## Statements:

We want to build a website with the theme of home, which integrates local convenience service inquiries, self-operated home services and selling tools. We hope that our website is very friendly and easy to operate for our users, including employees and their customers. HomeHub project is the one we finally present, which has a very elegant user interface, and uses various advanced technologies, including but not limited to jsp, servlet, mysql, nosql, map, python, machine learning.

## Requirements:

- Customer:
  - Create customer account (in MySQL)
  - View services, book services, cancel services (in MySQL)
  - Leave any review for service order (in Mongo)
  - View products, purchase products, cancel orders (in MySQL)
  - Leave any review for product order (in Mongo)
  - Modify user\_profile (in MySQL)
  - Leave a contact message (in MySQL)
  - Feed recommendation product while checking out (python + machine learning)
  - Search bar for products with auto-complete
  - Search near me service (Map API)
  - Twitter matches function on the home page (Twitter API)
  - Check trending stuff (in Mongo)
- Manger:
  - Create manager account (in MySQL)
  - View products, update products, add products, remove products (in MySQL)
  - Check inventory of products (in MySQL)
  - View,update,add,remove orders (in MySQL)
  - Analytics & Visual Report: check sales report (in MySQL)
  - View, add, update customers information (in MySQL)
  - View and reply message from customers (in MySQL)
  - Build up graph database (Neo4J)
  - Query in graph database (Neo4J)