

# Proposal

## Home Maintenance Automated Scheduling System (H.M.A.S.S.)

September 2020

### **ISSUED BY**

CECS 491 Team

### **REPRESENTATIVE**

Nickolaus Marshall-Eminger

[nickolaus.marshallemininger@student.csulb.com](mailto:nickolaus.marshallemininger@student.csulb.com)

(805)458-8797



## Overview

The **H**ome **M**aintenance **A**utomated **S**cheduling **S**ystem, here forth referenced as **HMASS**, is a scheduling app that will assist in home, or rental, maintenance and upkeep.

The general functionality of the HMASS is to allow the user to create and schedule a maintenance event. Contractors or businesses (registered with the service) in the local area can view these maintenance events and offer bids based on the description of the work. The bids will be given to the requesting user, who will select whom they wish to employee for the scheduled job.

Notifications for the upcoming job will be given as well as a list of bidders, with ratings, for the user to select from. The user will have a limited amount of time to select the person for the job, before an automatic cancellation is made to all bidders. An automatic cancel will result in reduced user rating for the requesting users.



## Goal

The goals of this software will be to offer:

- User registration.
- Scheduling for home maintenance.
- Bidding for scheduled work.
- Filtering jobs by user preferences.
- Selecting contractors or businesses you would like to hire.
- Review sections to review user ratings.
- Payment methods through the service.
- Lists of suggested maintenance services for a home, and links to guides for new homeowners.



# Specifications

We intend to provide the user with a simple solution to scheduling general home maintenance jobs with as little hassle and need for interaction between the users. In order to achieve that we will implement the above goals as features:

1. User registration via an email address that will be used for contact between the users. User information will be private for as long as necessary prior to successful bid on a job.
2. Users will be able to set up a schedule of home maintenance that can function as a simple calendar with notifications, however, the default will be to have those scheduled events put up as “Open Jobs” until a specified time before the job day.
3. Those who set their accounts as a worker will be able to view jobs within a specified search range, and dates to offer their bid. Upon being selected they will have a limited time to accept the job, or perhaps by bidding they will be automatically accepting that they will do that job on that date (to prevent widespread double booking).
4. Workers will be able to filter their job selections by the distance to the work site, by user rating, and other various search parameters yet defined.
5. Users requesting work on their property will be able to view the list of bidders, select the lowest price, or most reliable according to reviews. After selection a notification will be sent to the worker automatically for a confirmation, upon confirmation all other applicants will be notified the job has been taken.
6. Users will have the ability to review users. Upon job completion both users will be offered a chance to review each other, leaving feedback will help fuel the system, and perhaps some incentive can be offered to leave a review. Users will also be able to search through, and see these reviews before taking on/offering a job.
7. We will offer the ability to pay for services rendered through the webapp, using credit cards, paypal, or other such services. We may also, potentially, be able to offer some kind of check, or direct deposit system.
8. We will also have a main homepage that will have links to suggested maintenance options, and perhaps some guides written by external sources to further promote proper care of domiciles.