***Sharehouse Management Application***

***Scope Document:***

***Overview***

As the only self-directed group doing their own project, our scope document may differ when compared to other student groups, though only in areas that directly enhance the project or help inform our decisions. In this regard, we have attached wireframes, our database design, and a marketing survey which, while being overall project deliverables; are also vital parts of our project that needed to be completed as early as possible.

***Problem:***

*“Keeping bills, schedules, shopping/chore lists, and general household notices organised in sharehouse situations is generally tedious and often a mess”*

***Solution:***

These issues are faced by many household tenants with 82% of respondents to our survey stating that they struggle with these aspects of household management, particularly in regards to billing and scheduling. Our app makes managing these tasks simple and efficient with features such as bill notifications, live shopping lists, and household-wide notices - all available in an intuitive and easily-accessible mobile interface.

The app does not minimise or replace social interaction in a sharehouse, nor is it a personalised social network; it is primarily a sharehouse utility application that takes the tedium out of managing bills, lists, and notices and makes living in a sharehouse situation hassle-free.

***Problems Encountered:***

| Problem | Solution |
| --- | --- |
| Defining the features of our app - particularly things like the bills and lists functions | Created surveys to analyse the potential audience for our application, but also to help inform us of in-demand features or problems that they face. |
| Paying bills within the application | Based on previous experience integrating the PayPal API, and the complete lack of interest in our survey; we elected not to include bill-paying functionality in our application. |
| Exploring whether administrators are necessary | Elected to keep a single user-level. Tasks should be used/edited to some degree by all users, to do otherwise make the experience quite clunky |
| Reaching a consensus on the appropriate development and deployment method to reach all users | After exploring our options, we elected to go with a PhoneGap-driven approach meaning that we simply build a single web app (front-end separate from back-end which is wrapped in a web service) and deploy that same front-end to all devices.  To do otherwise would require significantly more development/learning time and would make the app essentially useless if only housemates with an iPhone could use the app. |
| The inclusion of additional features (analytics, home info etc.) and general scope creep | Elected to focus on the 4 key feature areas before moving onto any additional features. We would prefer to move fast, test often and get the utility part of the app done well. |

***Expected Functionality/Project Deliverables:***

* + **Bills**
    - Rent
      * Organise rent payments required and divide between tenants
      * Push notify tenants of their bill due date and amount
      * Tenants may mark the bill as paid
      * Keep a log/record of bills + paid status
      * Allow for manual override by admin (edit/update)
    - Utilities
      * Organise utility payments and divide between tenants
      * Push notify tenants of their bill due date and amount
      * Tenants may mark the bill as paid
      * Keep a log/record of bills + paid status
      * Allow for manual override by admin (edit/update)
  + **Lists**
    - Shopping
    - Create and update a live list (universal for all tenants)
    - Optionally, record item-cost per item
    - Keep a log/record
    - Flag/Pin an item for importance
    - Optionally, submit/commit purchases together
    - Optionally, display who bought the item last or which tenant needs to buy it next
    - **Chores**
      * Create a chore roster, allocating tasks to tenants.
      * Customise chore roster based on time/frequency
      * Allow for manual override by admin (edit/update)
      * **Noticeboard**
        + Make posts
        + Comment on posts
        + Delete posts
        + Flag/Pin posts
        + Thumbs Up/Thumbs Down posts
        + **Login**

Email sign-in

Facebook/Google sign-in

