

The project provides a website for all Eliot House residents to browse and select their potential rooms for the following year during the upperclassman Housing Lottery. With every room in the House being a different size and only having two minutes to decide on the suite, students are forced to create long spreadsheets that encompass their housing preferences. This website facilitates the process of preparing for the upperclassman housing day, and it has the following features after registration and login: the ability to produce a list of possible rooms for a user's group size, to order the list by common room size and average bedroom size, and to allow the user to add the rooms that they like to their favorite page (i.e. the equivalent of a shopping cart).

Using the framework from problem set 7 (cs50 finance), the first page to appear is the login page, where the user has the option to login or to register. After they have logged in, or registered and are redirected to the home page, the user can use the drop down menus to enter their group size and year. Once the information has been submitted, the website produces a list of all of the possible rooming options in a table, where junior groups are assigned the same number of rooms as their group size, and senior groups are entitled to one more room than their group size. Each potential rooming option could be a combination of up to four suites connected through fire-doors, which can be further inspected at <http://www.eliot.harvard.edu/floorplans/>. For example, a group of six juniors could live in one suite with 6 rooms, or across two suites that each have 3 rooms. The following information is displayed in the table: number of rooms, the name (entryway followed by room number) of the first suite, second suite, third suite, and fourth suite, the common room size (in square feet), and the average bedroom size (in square feet).

The table of rooming options can be ordered by common room size or average bedroom size, and can be filtered by entryway or floor. For example, when clicking on the box next to 'A' entryway, a row in the table that does not have a suite in 'A' entryway disappears. In addition to this, the user can click on the add button at the end of each row to add a particular rooming option to their favorite page. When the user clicks the add button, they are notified that the rooming option has been added to the favorites page (which can be viewed at any time to clicking on the link below the 'Eliot Housing' header). These features all aim to help the user decide on the order in which they preference their rooms in preparation for the Housing Day.

Finally, the user should also note that they can access the favorite page, conduct a new search, or log out, at any time by clicking on the appropriate link below the 'Eliot Housing' header.