



This is the class diagram for a roommate finder application. It consists of ten classes, three of which are subclasses. The user class stores information like usernames and passwords and relates to the survey hub class with a composition relation. This class connects to the two-survey classes which inherit from a super class and utilize the question class. These survey classes allow the

user to answer questions by displaying them and recording their responses. All of these cannot exist in part without the survey hub class. The dorm preferences class is similar to the survey classes but much more simplistic and also has a composition relationship to the survey hub. The grade roommates class employs the algorithm which compares the user survey results with the databases roommate responses utilizing the roommate class which can exist in multiples to the grading class but not on its own. Finally, this connects to the get contact info class which simply displays the contact info from the list of graded roommates and allows the user to save and exit from the program.