VU Housing Group: Jimmy Gamboli, Peter Carr, Rowan Dillon, Daniel Perez Senior Projects Abstract.

**Revise Abstract**

Our project aims to resolve the lack of resources for Villanova students who were unable to secure on-campus housing during their senior year (or any future year where housing is not guaranteed by the university). We began this project in a previous class, Software Engineering; our approach was to develop a cross-platform mobile application that allowed students to add potential houses or apartments to the app and sort/filter them based on various preferences such as distance, quality, etc. In our prototype, we implemented a database for adding housing options, and a basic but unpolished UI. Our tech-stack involved using react-native, a google firebase as a database, and use of various API’s (including Zillow for verifying valid addresses). At this point in development, we have focused on three key features and plan to spend the end of the semester deploying a finished app to the Google Play store. Firstly, we are allowing the users to sort through our house listings using a filter feature. For example, a user can search for a house with a specific number of bedrooms. Another feature we have been developing is uploading pictures to house listings. This again utilizes our database. Lastly we have added a review feature that takes an average of inputs from the database. We are hoping to focus the rest of our time to debugging these features and producing a fully functional and app store ready app.

**Presentation Day Write Up**

Our group is VUHousing, we are developing a cross-platform mobile application that provides resources for future Villanova students who were unable to secure on-campus housing during their senior year (or any future year where housing is not guaranteed by the university). Our application allows students to add potential houses or apartments they have previously lived in to our database and fr them based on various preferences so that other students can view them. Our tech-stack involves using typescript within react-native, google firebase as our database, and various API’s for data verification and other features. Our current development cycle has focused on implementing three key features: filtering listings, adding images, and reviews for listings. We intend to use our remaining development time to improve these core functions and focus on a complete deployment on the Google Play store.