Exceptional Null Pointers Development Plan Sponsor: AppFolio

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Development Plan

- Official AppFolio Property Listing Implementation: Implement AppFolio's given bank of listing information to our website for up-to-date housing/property information. This should allow us to add more features to the table so the user can know more about the property (a description, consistent pricing, etc.).
- Clean Up Social Features: Provide a more well-rounded social functionality with more strict access to who has admin control of a group (i.e. who can add/remove other 'roommates'), etc.
- Al recommendation system: Recommend property listings based on personal preferences and roommate group preferences
- Add Social Features: Add the ability for group members to send property listings via email and/or text message to the rest of their roommate group.
- Rating Functionality: Determine, using some factors, a rating for any one property that compares said factors and provides a result.

Sprint 5:

- Modify search functionality to use AppFolio listing data instead of 3rd party external API's.
- Build a model for an AI based recommendation system.
- Improve roommate group functionality.

- Add a "Leave Group" button to easily remove someone from the group.
- Modify it such that only the group admin (creator) can remove individuals from the group.
- Add an invitation system such that users are not automatically enrolled into a group.
- Research feasibility of implementing a common application form allowing users to submit leasing applications from the application.

Sprint 6:

- Improve user experience in the search results page.
- Add the ability for users to email property listings to their roommate group.
- Add the ability for users to text property listings to their roommate group.
- Optimize the application to run faster via lazy loading and caching.
- Implement an AI based recommendation system.
- Perform second user study for feedback.
- Begin gathering application metrics.
 - User engagement/event sequence
 - Uptime/average latency

Sprint 7:

- Implement feedback from user study in sprint 6.
- Implement bug fixes.
- Bring QA environment up to production head for a backup presentation environment.
- Develop a contingency plan if Amazon AWS goes down for presentation.
- Determine whose computer will be used during the presentation.
 - Designate a different individual as a backup.
- Collect any additional application metrics.

Sprint 8:

- Stress test application.
- Patch any last minute bugs.
- Plan presentation and rehearse presentation.