

UniLyfe

Team 4 Project Backlog

Team Members:

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Problem Statement:

The recent outbreak of COVID-19 has undoubtedly transformed everyday life - the shift from regular college campus life to a fully online or hybrid experience has left students feeling disconnected from their peers and their university campus. With UniLyfe, students can make the best use of their campus by choosing to eat, study, or have fun in places that are recommended highly by their peers.

Background Information:

Audience

This app is directed towards college students who lack the typical social experience that university life provides and want to know more about things that they can do on campus safely. This app is also directed towards students who want to meet more people on campus.

Similar Platforms

There are many existing online review applications like Yelp, Tripadvisor, and Angie's List. Yelp is an online review site where users share their experiences, helping others make informed decisions about restaurants, auto-repair shops, and more. Tripadvisor is an online research platform where users share their opinions and review hotels, destinations, and restaurants. Angie's List allows users to see detailed, verified reviews on local companies.

Limitations

While there are other existing online review applications such as Yelp, Tripadvisor, or Angie's List, none of them are geared solely towards college students. UniLyfe will stand out because of its ability to provide personalized recommendations for locations on university campuses. Another differentiating factor is that UniLyfe will include a way for users to keep track of high density COVID clusters on campus so students will have the option to avoid these areas.

Functional Requirements:

1. As a user, I would like to create a new account with a username and password
2. As a user, I would like to log in using my college email account through Google or Email/Password.

3. As a user, I would like to reset my password if I forget it so that I can continue using my account.
4. As a user, I would like to log in using my Purdue Career Account (if time allows)
5. As a user, I would like to be able to edit certain elements of my profile.
6. As a user, I would like an information button or tutorial with explanation of each feature in the app
7. As a user, I would like to easily access the different subsections of the application making the app user friendly.
8. As a user, I would like to post reviews highlighting my experience in locations near Purdue University.
9. As a user, I would like to see all recent posts on my home feed.
10. As a user, I would like to read reviews posted by others regarding their experiences in locations near Purdue University.
11. As a user, I would like to add pictures of/information about myself so I can easily get matched to people.
12. As a user, I would like to view the profile of the post creator or the comment creator.
13. As a user, I would like to make friends with those who have similar interests, taking the same/similar classes, and those who are in the same/similar clubs/extracurricular activities as me.
14. As a user, I would like to know where COVID hotspots are located graphically on a map.
15. As a user, I would like to avoid COVID hotspots on/near campus which are displayed by red dots on the map by seeing a list of these locations.
16. As a user, I would like to anonymously log the places I have visited recently on the app if I have tested positive for COVID.
17. As a user, I would like to see how many people who have tested positive for COVID
18. As a user, I would like to see how many people with COVID have been in a certain building recently.
19. As a user, I would like to create polls to gather feedback on popular locations.
20. As a user, I would like to try to find quiet, empty places to study.
21. As a user, I would like to read the opinions of my peers to know what food is good at the dining courts.
22. As a user, I would like to rate specific foods served at the dining courts (i.e. what sauces are best at the stir fry place in Earhart)
23. As a user, I would like to add specific foods served at the dining courts (i.e. Earhart is now serving X weird ice cream flavor)
24. As a user, I would like to be notified whenever someone makes a post about a certain topic (i.e. free food on campus, dining court reviews, photos from a certain location).
25. As a user, I would like to add topics I am interested in to my wishlist which can be used to get notifications or/and make new friends (i.e. Ramitha and you like to study at Lawson)

26. As a user, I would like to rate places based on my personal experience.
27. As a user, I would like to be able to search for keywords across all posts on the app.
28. As a user, I would like to filter locations based on how high their ratings are.
29. As a user, I would like to filter posts on my home feed by reviews, ratings, or polls.
30. As a user, I would like to explore places which only Purdue students know (ex: top of Lawson).
31. As a user, I would like to add more places which not many students know about.
32. As a user, I would like to upload photos so that my peers will have an idea of what the place is like.
33. As a user, I would like to add comments regarding my experiences at certain places.
34. As a user, I would like to read reviews on residence halls so that I know the most popular places to live (if time allows).
35. As a user, I would like to add information about events happening on campus.
36. As a user, I would like to read/write reviews on residence halls and nearby apartments (if time allows).
37. As a user, I would like to earn points by posting on the app and interacting with people on the app.
38. As a user, I would like to redeem points for possible incentives (i.e. coupons)
39. As a user, I would like to be able to report users for inappropriate content (racism/hate speech)
40. As a user, I would like to be able to report posts for inappropriate content (racism/hate speech)
41. As a user, I would like to see a completely randomized post/event/comment/location (if time allows)
42. As a user, I would like to indicate whether or not I thought a review was helpful by implementing a like button.
43. As a user, I would like to view my comment history.
44. As a user, I would like to view all the posts I have ever liked.
45. As a user, I would like to be able to delete any comments or posts I have made.
46. As a user, I would like to earn profile awards for reaching a certain number of points.
47. As a user, I would like to *read* reviews about housing and restaurants that are located on or near campus.
48. As a user, I would like to *write* reviews about housing and restaurants that are located on or near campus.
49. As a user, I would like to update my profile picture.
50. As a developer, I would like to access and store the username and password data for each user.
51. As a developer, I would like to access the data inputted by the user to display it properly
52. As a developer, I would like to access and analyze information that users upload about themselves for their profile.

- 53. As a developer, I would like to filter out possibly harmful words in the comments/posts.
- 54. As a developer, I would like to filter out inappropriate photos users have posted.
- 55. As a developer, I would like to remove reported posts.
- 56. As a user, I would like to input personal information when signing up with a new account on the app.
- 57. As a developer, I would like to store photos in the database.
- 58. As a developer, I would like to have access to information pertaining to the locations and location ratings.
- 59. As a developer, I would like to provide a default avatar to all users when they first sign up.
- 60. As a user, I would like to earn profile awards for reaching a certain number of points.

Non-Functional Requirements:

Architecture and Performance

We plan to develop this app with the same frontend and backend, with a combination of Flutter and Firebase. A Dart (Flutter) and Firebase based backend will handle network requests and handle data for users, COVID logs, etc. We plan to use Firebase to hold the information of users who log into our app.

Security

We will have access to user info when they log in through their Google account and we will want to make sure that information is secure. We will also implement a system to ensure users only have access to parts of the app that they are supposed to. Users will confirm that the app has permission to hold their information

Usability

In terms of UI, the app should be functional and frictionless. The features will be divided into subcategories that will be shown in the app menu. While apps like Yelp and TripAdvisor provide similar reviewing services, UniLyfe aims to provide a platform for college students to review and recommend their favorite spots on or near campus while knowing which spots to avoid due to COVID-19.

Hosting/Deployment

Because the frontend and backend will be joined together, they will be deployed and updated at the same time. Once we get far enough in development, we can deploy the app on Fastlane. We hope to host the Flutter mobile app to the Apple App Store or Android Google Play, as we aim to make the app platform independent.