Alex Wysoczanski, Anjali Maheshwari, Carly Ryan, Eli Kalish, Jack Goettle
CIS 350: Iteration 1 Report

Contributions:

Alex: I worked on integrating the Spotify Android SDK into the application. I had to ensure the app was properly connected and authorized. I then created 3 resources in our database corresponding to recommendations of “Listening to Music as You Fall Asleep” (Sleep), “Listen to Workout Music” (Fitness), and “Listen to Calming Music” (Stress). Depending on which recommendation we give the user, the respective playlist will begin playing on the next screen. To display the audio player, I created an activity that allows the user to skip forward, skip backward, or pause the playlist recommended for them based on their needs. The view displays 3 buttons (PREV, PAUSE/PLAY, and NEXT) as well as a text field that shows the current track name and artist, with the playlist artwork above.

Anjali: I created the resource database with Carly’s help. I developed a Resource object that contains the name, image, category, address, latitude and longitude coordinates, website, and phone number. I also worked on displaying all of the activities on the dashboard of the application, which contains 6 buttons (diet, sleep, stress, mental health, fitness and seeking community) as well as a “recommended” button. I iteratively created buttons based on the category clicked on the main activity and pulled the program details from the resource database. Then, I used a template to display the activity details page based on the specific program clicked. This activity displays an image of the program, a short description, the phone number and the website. This was the most logical way to design my part in terms of efficiency for scalability when we later add an admin feature.

Carly: I found the resources to use and compiled them in a doc. I then worked on designing the Resource class with Anjali. We proceeded to design the database and I manually inputted the resources for the dummy. Me, Eli and Anj worked on the UML design and decided a scalable and elegant design for the stitching together of our UI, my processor, and the dummy database. I then went on to work on the processor, the processor constructor takes in the database and stores it as a field. Then a method, getRecs(User user), analyzes the data, stored in the user instance, about the user’s preferences and woes to find recommendations. I then return the recommendations and also store them in the user instance. In terms of later implementation,

this was an efficient design for if we also want to add an option to take the survey not solely upon registration. In addition, I modeled a recommended page after the ones Anjali made for the general sections.

Eli: I worked on the login, account registration and user database features. I had to make a user interface that was simple but usable. My design involved creating the database/all of the users, taking in their input and checking whether it corresponding with anyone in the database. Most of my work was done across 4 files: MainActivity, CreateAccountActivity, and their corresponding XML files. I also implemented the values for survey, which while hard coded in this implementation will be fully fleshed out when we have to access to real databases.

Jack: I worked on integrating the Google Maps API into the application. This involved writing a few functions to initialize the map, and additionally to place a marker on the map corresponding to the location of the resource. I used the address of the resource to figure out its corresponding longitude and latitude, which I then added as elements to our resource database. Most of my work was done in GriefReferralPage.java - this view includes the title of the resource, a Google map showing the location of the resource, and a textview containing the description of the resource stored in the resource database. I decided to take this implementation a step further by calculating the distance between the resource and the location of the user, which I then showed on the activity view. This required writing a few functions that asked the user for permission to enable location services, and then a few more that, given the longitudinal and latitudinal locations of the resource and the user, will calculate the distance in miles between the two. In addition to integrating the Google Maps SDK, I also created the UI for the wellness survey, which included the title for the question, the question number, three buttons for answer choices, and a back button allowing the user to change their answer to previous questions.

User Stories

1. As a user, I will open the app and then login into the application. (1)
2. As a user, I can take a survey so that the application can gauge my interests in order to suggest the most tailored resources. (1)
3. As a user, I can receive suggestions of resources to improve my mental health, based on my preferences. (2)
4. As a user, I can see my top 3 preferences after I take the survey so that I am not overwhelmed with options but I can see the best options to help me. (2)

5. As a user, from these preferences, I can click on them to be directed to tabs with links and descriptions. (2)
6. As a user, I can listen to guided meditation because I am stressed out. (2)
7. As a user, I can listen to workout music while I exercise. (1)
8. As a user, I can listen to relaxing music when I am stressed out. (1)
9. As a user, I want a clean interface which shows what resources I have access to (a la snapchat stories). (2)
10. As a user, I want to be asked permission before my location is tracked.
11. As a user, I want to be able to see my location on a map relative to my resource of interest.
12. As a user, I want to be able to know how far in miles a given resource is from my current location.

Commit Log

Commits on Commits on Mar 24, 2019

Merge branch 'master' of https://github.com/anjalimaheshwari/cis350pr… ...

alexwyso **committed 19 minutes ago**

7e29892

artwork included

alexwyso **committed 19 minutes ago**

c0eecde

wrote function that calculates distance from user to resource and cre… ...

jackg235 **committed an hour ago**

cdd4058

Merge remote-tracking branch 'origin/master'

jackg235 **committed an hour ago**

83b6b22

added connections to com.google.android.gms.location

jackg235 **committed an hour ago**

4ca1736

Adding proc, updating user

Carly Ryan committed 2 hours ago

69fa586

bug

alexwyso **committed 3 hours ago**

98c9929

all playlists now set

alexwyso **committed 3 hours ago**

7241df6

Adding ResourceDB updates

Carly Ryan committed 3 hours ago

8205d48

playlists now play based on which type resource we recommend

alexwyso **committed 3 hours ago**

8a32c94

Merge remote-tracking branch 'origin/master'

jackg235 **committed 4 hours ago**

ad5fa99

Added location services (in progress)

jackg235 **committed 4 hours ago**

96b253f

Spotify linked and fully working now

alexwyso **committed 4 hours ago**

2f68f1f

map added to GriefReferralPage; small changes made to resourceDBB and… ...

jackg235 **committed 4 hours ago**

ff7db93

integrated w/ google maps API

jackg235 **committed 5 hours ago**

55797e1

added in latitudes and longitudes to resourceDB

jackg235 **committed 5 hours ago**

3ac236c

Commits on Mar 23, 2019

got spotify connected to database, need to test if it plays on a devi… ...

alexwyso **committed 20 hours ago**

ebb6bcc

updated database

Eli Kalish committed 22 hours ago

952ab7a

new database

Eli Kalish committed 23 hours ago

244b5ff

first commit

Anjali Maheshwari committed a day ago

Mar 24, 2019

Merge branch 'master' of https://github.com/anjalimaheshwari/cis350pr… ...

alexwyso **committed 19 minutes ago**

7e29892

artwork included

alexwyso **committed 19 minutes ago**

c0eecde

wrote function that calculates distance from user to resource and cre… ...

jackg235 **committed an hour ago**

cdd4058

Merge remote-tracking branch 'origin/master'

jackg235 **committed an hour ago**

83b6b22

added connections to com.google.android.gms.location

jackg235 **committed an hour ago**

4ca1736

Adding proc, updating user

Carly Ryan committed 2 hours ago

69fa586

bug

alexwyso **committed 3 hours ago**

98c9929

all playlists now set

alexwyso **committed 3 hours ago**

7241df6

Adding ResourceDB updates

Carly Ryan committed 3 hours ago

8205d48

playlists now play based on which type resource we recommend

alexwyso **committed 3 hours ago**

8a32c94

Merge remote-tracking branch 'origin/master'

jackg235 **committed 4 hours ago**

ad5fa99

Added location services (in progress)

jackg235 **committed 4 hours ago**

96b253f

Spotify linked and fully working now

alexwyso **committed 4 hours ago**

2f68f1f

map added to GriefReferralPage; small changes made to resourceDBB and… ...

jackg235 **committed 4 hours ago**

ff7db93

integrated w/ google maps API

jackg235 **committed 5 hours ago**

55797e1

added in latitudes and longitudes to resourceDB

jackg235 **committed 5 hours ago**

3ac236c

Commits on Mar 23, 2019

got spotify connected to database, need to test if it plays on a devi… ...

alexwyso **committed 20 hours ago**

ebb6bcc

updated database

Eli Kalish committed 22 hours ago

952ab7a

new database

Eli Kalish committed 23 hours ago

244b5ff

first commit

Anjali Maheshwari committed a day ago