Location-aware Apps Study

The purpose of this study is to survey the users’ perceptions on location-aware apps.

This survey is composed of seven sections, the first six of which correspond to different app categories: geo-search app, social networking apps, chatting/messaging apps, sports tracking apps, gaming apps, and weather apps. The final section consists of some general questions.

This survey should take no more than 20 minutes to complete.

Please fill in the worker ID at the end so that you can get compensated for your effort.

* Required

1. Which of the following mobile platforms do you use? *

  * Mark only one oval.

  - Android
  - iOS
  - BlackBerry
  - Windows Phone
  - I don’t own a smartphone [Stop filling out this form.]
  - Other: .................................................................

Geo-search Apps

Apps that are used to find points of interest such as restaurants, stores, coffee shops, bars, businesses, etc. Examples of such apps include Yelp, Urbanspoon, YellowPages, etc.

2. Do you have such an app installed on your smartphone? *

  * Mark only one oval.

  - Yes
  - No [Skip to question 11.]

Geo-search Apps

Apps that are used to find points of interest such as restaurants, stores, coffee shops, bars, businesses ...

3. Which app do you mostly use to look up nearby points of interest? *

  e.g., Yelp, Urbanspoon, YellowPages, etc.

  ........................................................................................................................................

4. How frequently do you use this app? *

  1: at most once a month, 2: once every couple of weeks, 3: once a week, 4: more than once a week, 5: at least once a day

  * Mark only one oval.
5. Where do you usually use this app from? *
   Check all that apply.
   - Home
   - Work
   - On the move
   - Other: ____________________________________________________________

6. Do you think this app knows your location when you are using it? *
   Mark only one oval.
   - Yes
   - No
   - I don't know

7. Do you think this app *should* know your location? *
   Mark only one oval.
   - Yes
   - No
   - I don't know

8. What is the location accuracy necessary for this app to display relevant results to your location? *
   Mark only one oval.
   - least-accurate: within 3 miles (~5 km)
   - within 0.5 miles (~1 km)
   - within 350 ft (~100 m)
   - most-accurate: within 30 ft (~10 m)

9. When using this app from home or work, which points of interest (PoIs) do you usually look for? *
   Mark only one oval.
   - Mostly nearby PoIs (within 1 mile of house or work)
   - Mostly PoIs that are not close to me (within 5-10 miles of house or work)
   - I have no preference

10. If you are using this app from home or work, and it displays places that are not close to you (e.g., more than 5 miles far from you). How usable do you think this app is? *
    For example, you open the app while you are at home but it shows restaurants from the other part of the city you reside in.
    Mark only one oval.

   1  2  3  4  5
   least comfortable  0  0  0  0  0  most comfortable

Social Networking Apps
11. Do you have such an app installed on your smartphone? *
   e.g., Facebook, Google+, Twitter, etc.
   Mark only one oval.
   ○ Yes
   ○ No  Skip to question 21.

Social Networking Apps

12. What is your favorite social networking app?
   e.g., Facebook, Google+, Twitter, etc.

13. How frequently do you use this app? *
   1: at most once a month, 2: once every couple of weeks, 3: once a week, 4: more than once a week, 5: at least once a day
   Mark only one oval.

   1  2  3  4  5

   lowest frequency  ○ ○ ○ ○ ○  highest frequency

14. Where do you usually use this app? *
   Mark only one oval.
   ○ Home
   ○ Work
   ○ On the move
   ○ I use it everywhere
   ○ Other: .................................................................

15. Do you think this app knows your location when you are using it? *
   Mark only one oval.
   ○ Yes
   ○ No
   ○ I don't know

16. Do you think this app *should* know your location? *
   Mark only one oval.
   ○ Yes
   ○ No
   ○ I don't know
17. Why do you think this app might need to know your location? *  
Check all that apply.

- [ ] Help me navigate
- [ ] Help me look up nearby places
- [ ] Help me locate nearby friends
- [ ] Enable me to check-in at places of interest I am visiting
- [ ] Track my exercising activity
- [ ] Share my location with friends
- [ ] It doesn't need to know my location
- [ ] Other: __________________________________________

18. What location accuracy do you think is enough for this app to provide you with acceptable service? *  
Mark only one oval.

- [ ] location not needed
- [ ] least-accurate: within 5 km (~3 mi)
- [ ] within 1 km (~0.6 mi)
- [ ] within 100 m (~350 ft)
- [ ] most-accurate: within 10 m (~30 ft)

19. Do you post your location when you are using the app from either home or work? *  
Mark only one oval.

- [ ] Yes
- [ ] No
- [ ] Sometimes

20. You are at home or work and decided to post your location. However, the post shows only the city you are in instead of your actual location. Would you have a problem with that? *  
Mark only one oval.

- [ ] Yes
- [ ] No
- [ ] I have no idea
- [ ] I don't post my location

Chatting/Messaging Apps  
e.g., Whatsapp, Viber, Skype, Google Hangouts, KakaoTalk, Facebook Messenger, etc.

21. Do you have such an app installed on your smartphone? *  
Mark only one oval.

- [ ] Yes
- [ ] No  Skip to question 30.

Chatting/Messaging Apps
22. Which of the following chatting/messaging app do you mostly use? *
   Whatsapp, Viber, Skype, Google Hangouts, KakaoTalk, Facebook Messenger, etc.

23. How frequently do you use this app? *
   1: at most once a month, 2: once every couple of weeks, 3: once a week, 4: more than once a week, 5: at least once a day
   Mark only one oval.

   1  2  3  4  5
   lowest frequency 〇 〇 〇 〇 〇  highest frequency

24. Do you think this app knows your location when you are using it? *
   Mark only one oval.
   〇 Yes
   〇 No
   〇 I don't know

25. Do you think this app *should* know your location? *
   Mark only one oval.
   〇 Yes
   〇 No
   〇 I don't know

26. Why do you think this app might need to know your location? *
   Check all that apply.
   〇 Help me navigate
   〇 Help me look up nearby places
   〇 Help me locate nearby friends
   〇 Enable me to check-in at places of interest
   〇 Track my exercising activity
   〇 Share my location with friends
   〇 It doesn't need to know my location
   〇 Other: ........................................................................................................................................................................
27. What location accuracy do you think is enough for this app to provide you with acceptable service? *
   Mark only one oval.
   - location not needed
   - least-accurate: within 5 km (~3 mi)
   - within 1 km (~0.6 mi)
   - within 100 m (~350 ft)
   - most-accurate: within 10 m (~30 ft)

28. Do you utilize the location sharing feature with people you are chatting with, when you are either at home or work? *
   Mark only one oval.
   - Yes
   - No
   - Sometimes

29. Consider this situation: you are currently at home or work, and you want to share your location (using the location sharing feature) with the person you are chatting with. However, the other person sees only the city you are chatting from, instead of your actual location. Do you have any problem with that? *
   Mark only one oval.
   - Yes
   - No
   - I have no idea
   - I don't share my location while chatting

Sports/Fitness Tracking App
Apps that track your jogging, running, and other exercises. Examples on such apps include Endomondo, Runtastic, RunKeeper, Nike+ Running, etc.

30. Do you have such an app installed on your smartphone? *
   Mark only one oval.
   - Yes
   - No  Skip to question 40.

Sports/Fitness Tracking App
Apps that track your jogging, running, and other exercises.

31. What is your favorite sports tracking app? *
   e.g., Endomondo, Runtastic, RunKeeper, Nike+ Running, etc.
32. **How frequently do you use this app?** *  
1: at most once a month, 2: once every couple of weeks, 3: once a week, 4: more than once a week, 5: at least once a day  
*Mark only one oval.*

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33. **Where do you usually exercise while using this app?** *  
Choose all that applies  
*Check all that apply.*

- [ ] tracks close to home  
- [ ] tracks close to work  
- [ ] public track (e.g., parks...)  
- [ ] Other: ........................................................................................................

34. **Do you think this app knows your location when you are using it?** *  
*Mark only one oval.*

- [ ] Yes  
- [ ] No  
- [ ] I don't know

35. **Do you think this app *should* know your location?** *  
*Mark only one oval.*

- [ ] Yes  
- [ ] No  
- [ ] I don't know

36. **Why do you think this app might need to know your location?** *  
*Check all that apply.*

- [ ] Help me navigate  
- [ ] Help me look up nearby places  
- [ ] Help me locate nearby friends  
- [ ] Enable me to check-in at places of interest  
- [ ] Track my exercising activity  
- [ ] Share my location with friends  
- [ ] It doesn't need to know my location  
- [ ] Other: ........................................................................................................
37. **What location accuracy do you think is enough for this app to provide you with acceptable service?** *
   *Mark only one oval.*
   - location not needed
   - least-accurate: within 5 km (~3 mi)
   - within 1 km (~0.6 mi)
   - within 100 m (~350 ft)
   - most-accurate: within 10 m (~30 ft)

38. **Do you care more about the distance or the path while running to be shown on a map?** *
   *Mark only one oval.*
   - I care more about the distance
   - I care more about viewing my tracks on a map
   - Both are important

39. **Consider this situation: the app shows the real distance that you ran/jogged, but when you attempt to view your track on the map, it shows a different track than the one you covered. Do you have a problem with that?** *
   *Mark only one oval.*
   - Yes, I want to see my real tracks
   - No, I care more about the distance I ran
   - I can't really tell

**Gaming Apps**

40. **Do you have a gaming app installed on your smartphone?** *
    *Mark only one oval.*
    - Yes
    - No *Skip to question 48.*

**Gaming Apps**

41. **What is your favorite gaming app?** *
    e.g., Angry Birds, Temple Run, Candy Crush, etc.

42. **How frequently do you play with this app?** *
    1: at most once a month, 2: once every couple of weeks, 3: once a week, 4: more than once a week, 5: at least once a day
    *Mark only one oval.*
    
    1 2 3 4 5
    lowest frequency  o  o  o  o  o  highest frequency
43. Do you think this app knows your location when you are playing with it? *
   *Mark only one oval.*
   - [ ] Yes
   - [ ] No
   - [ ] I don't know

44. Do you think this app *should* know your location? *
   *Mark only one oval.*
   - [ ] Yes
   - [ ] No
   - [ ] I don't know

45. Why do you think this app might need to know your location? *
   *Check all that apply.*
   - [ ] Help me navigate
   - [ ] Help me look up nearby places
   - [ ] Help me locate nearby friends
   - [ ] Enable me to check-in at places of interest
   - [ ] Track my exercising activity
   - [ ] Share my location with friends
   - [ ] It doesn't need to know my location
   - [ ] Other: ________________________________________________________________

46. What location accuracy do you think is enough for this app to provide you with acceptable service? *
   *Mark only one oval.*
   - [ ] location not needed
   - [ ] least-accurate: within 5 km (~3 mi)
   - [ ] within 1 km (~0.6 mi)
   - [ ] within 100 m (~350 ft)
   - [ ] most-accurate: within 10 m (~30 ft)

47. Do you think that your gaming experience will be different if the app knows your location as compared to it not knowing your location? *
   *Mark only one oval.*
   - [ ] Yes, the experience will be totally different
   - [ ] No, nothing will actually change
   - [ ] I don't know

Weather Apps
Apps that keep you updated about weather conditions. Examples on these apps include Weather Bug, Weather Channel, Yahoo Weather, Accuweather, etc.
48. Do you have a weather app installed on your smartphone? *
   Mark only one oval.
   ☐ Yes
   ☐ No  Skip to question 55.

Weather Apps
Apps that keep you updated on weather conditions.

49. What is your preferred weather app? *
   e.g., Weather Bug, Weather Channel, Yahoo Weather, Accuweather, etc.

50. Do you think this app knows your location when you it installed? *
   Mark only one oval.
   ☐ Yes
   ☐ No
   ☐ I don't know

51. Do you think this app *should* know your location? *
   Mark only one oval.
   ☐ Yes
   ☐ No
   ☐ I don't know

52. Why do you think this app might need to know your location? *
   Check all that apply.
   ☐ Help me navigate
   ☐ Help me look up nearby places
   ☐ Help me locate nearby friends
   ☐ Enable me to check-in at places of interest
   ☐ Display relevant weather information
   ☐ Track my exercising activity
   ☐ Share my location with friends
   ☐ It doesn’t need to know my location
   ☐ Other:  ........................................................................................................
53. **What location accuracy do you think is enough for this app to provide you with acceptable service?**
   *Mark only one oval.*
   - location not needed
   - least-accurate: within 5 km (~3 mi)
   - within 1 km (~0.6 mi)
   - within 100 m (~350 ft)
   - most-accurate: within 10 m (~30 ft)

54. **Do you think the displayed weather information will be different if the app only knows the city you are currently in as compared to your precise location?**
   *Mark only one oval.*
   - Yes, weather information might vary within the same city
   - No, weather information in the city and my location in the city should be the same
   - I don't know

**General Questions**

55. **Have you heard before of the term “location privacy”?**
   *Mark only one oval.*
   - Yes
   - No

56. **Do you think that apps knowing your location might pose any threats to your privacy?**
   *For example: revealing where you live or frequent places that you visit, or follow you as you move, etc.*
   *Mark only one oval.*
   - Yes, apps might pose location-related privacy threats
   - No, apps won't pose any location-related privacy threats
   - I don't know

57. **Do you care about who accesses your location information?**
   *Mark only one oval.*
   - Yes, I do
   - No, not really

58. **Would you prefer supplying an app with inaccurate (imprecise) location information for the purpose of enhancing your privacy?**
   *Mark only one oval.*
   - Yes
   - No
   - I am not sure
59. Please choose the factors that might influence your choice on whether to supply apps with inaccurate location: *
   Check all that apply.
   
   □ Usability
   □ Privacy
   □ Loss in app functionality
   □ Other: ........................................................................................................

Finally ...

60. Please fill-in your worker ID to get compensated for your effort: *
   If not Amazon Turk worker, fill anything below but *NOT* your name

   ........................................................................................................

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