Feasibility Analysis

Summary of our Survey
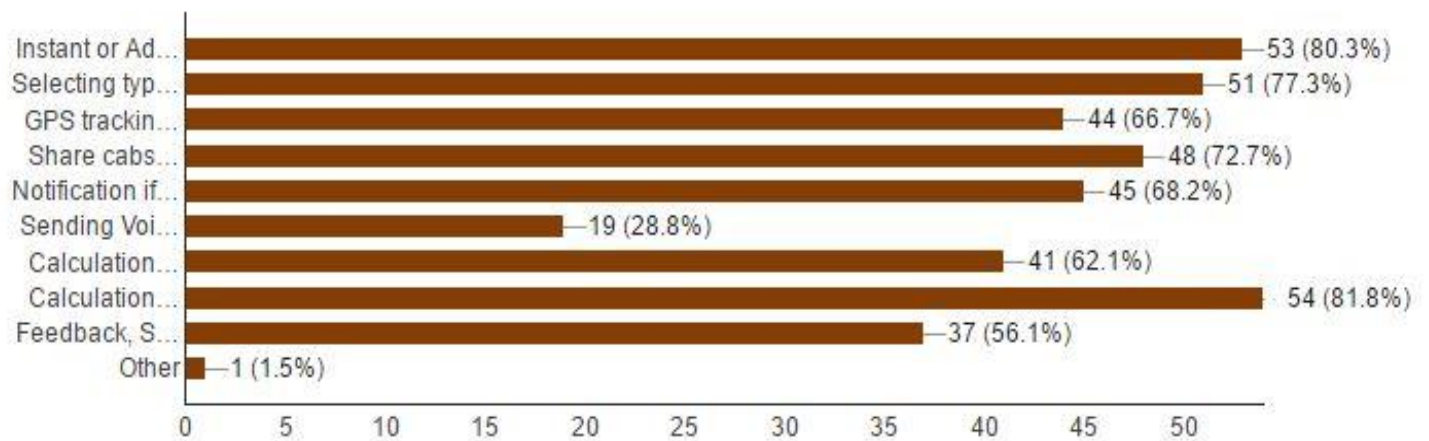

Year (66 responses)

- 1st
- 2nd
- 3rd
- 4th
- Other

43.9% 13.6% 18.2% 21.2%
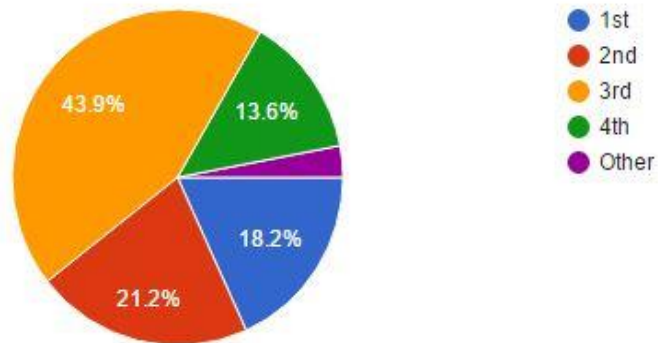
Would you like an app for Booking and Sharing Cabs ? (66 responses)

- Yes
- No

97%

What Features would you like to incorporate? (66 responses)

Feature	Count (%)
Instant or Ad...	53 (80.3%)
Selecting typ...	51 (77.3%)
GPS trackin...	44 (66.7%)
Share cabs...	48 (72.7%)
Notification if...	45 (68.2%)
Sending Voi...	19 (28.8%)
Calculation...	41 (62.1%)
Calculation...	54 (81.8%)
Feedback, S...	37 (56.1%)
Other	1 (1.5%)

(X-axis: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50)

We would love to hear your thoughts or any Other Suggestion. (9 responses)

Perhaps, something of a pool sort would be helpful for long journeys pertaining to the high cost one has to bear if traveling alone.

GOOD WORK PEOPLE FOR THINKING AND MAKING AN APP FOR BOOKING AND SHARING CABS

This is already been done by many people so try to get few more features indulge in it.

Yes

no

If we can share cab with stranger that would b awesome. I think if possible you should also show the possible routes to client with tume and money the can share by sharing cab

No thanks

Nice App

This app idea's cool man !!! 🙂

What if the system wasn't implemented?

Without implementation of the GPS tracking cum shared booking system users of the University Cab facility have to face the hassle of co-ordinating amongst users due to unavailability of information about the travel details of other users. This leads to unnecessary delay and cost to user. Without the tracking system users face much greater security concern due to absence of location data of cab at any given time. Also the cab company can have greater control over the movements of the cabs which will lead to an increase in the efficiency in the cab system and thus lesser instances of delay or unavailability of cabs.

What are current process problems?

With current process user can't book cabs in advance. They need driver's number to communicate with them. User sometimes are not aware of the fare for different location they have to rely on driver's word for it. NIIT University don't have reliable source of accurate data (about the distance travelled by faculties). Also there is no tracking mechanism in place to find the cab at any given time thus the university has to use the unreliable cell phone networks and such to know the location of cab at any given time. Users cannot easily co-ordinate between each other which leads to an unnecessary cost to user and otherwise hassle of searching for other people traveling to similar locations.

How will the proposed system help?

Our system will help users to share cabs with other students by sending notification to every other user and will also help user to book the cab in advance. GPS tracking feature will help them in getting the exact location of cab they have booked so that they can plan their activity accordingly. The voice message system provides better medium of communication between user and driver/guard.
NIIT University can get the distance travelled by faculties which will help them in making payment to vendor. It will also give the users an accurate cost of the journey based on collected tracking data and known per KM rate of taxi.

What will be the integration problems?

A feature implemented in our system is GPS tracking which makes use of the various map technologies currently being used like Google Maps and other 3rd party applications. Integration of 3rd party APIs will be difficult to implement while maintaining privacy and security of app communications and the intellectual property rights. To overcome this Google Maps API can be used which is secure and Open Source

Secondly during integration process of any maps API we can encounter bugs such as search not working, selecting a location from the search bar doesn't pin it on the map, photos search API not working resulting in showing places/destinations without any images and many other unknown bugs. Debugging and perfecting the app will require many versions and public releases.

Another issue that can be encountered is when the map displays but no map tiles are loaded on the app. This occurs mainly when the app hasn't been granted INTERNET permission. For this we will integrate [android.permission.INTERNET] permission and the [com.google.android.maps] library into our code for the app to function properly.

Is new technology needed? What skills?

As the world of technology is progressing further year by year, we are seeing innovation in terms of new products. For Example – smartwatches (particularly known as Android Wear) which is going to be a very useful product for the future. Now apart from the android API'S the Watch API'S are also available, which means integration of our app will be more useful and beneficial since users will be able to use the application from their wrists without even taking out their smartphones. Innovation won't stop neither will be innovation in terms of technology. Every year a tech/product will be available which has some new functionality/features. This is necessary and good as the app will then be able to be used in more ways and developers will find some innovative ideas for the app to work in a more creative fashion in the future which can't be thought of in the present.

If on viewing from a consumer's (End User) perspective no skill is required to use the app. Once the user uses the app for the first time he/she will become familiar with the working of the app/what it does which is quite simple.

In terms of use, developers new Android OS's will come consequently new API's, new features will also come so we will have to keep up with the new releases in the coming future. We'll constantly have to learn about the new features and how to implement them in a creative way so as to become a successful developer.

Facilities that must be supported by the proposed system?

- It enables user to book\share cabs and track the location of the cab.

- Cab Sharing- This feature searches for two or more users who are going to the same destination. It sends a pop-up notification asking a particular user whether they want to share the cab or not. Upon sharing a cab the total fare of the cabs will be less as compared to individuals. This is not applicable in pre-defined destinations though.

- SMS Automation – This feature lets the driver, know that his cab is booked, plus it is also send to the guard to make him aware that this particular driver's cab has been booked.

- GPS Tracking – Through this feature the user keeps track of where the cab is, soon after placing the booking.

- Fare Calculation-The app automatically calculates fare based on per KM rate and tracking data.

- Collection of Tracking Data- The GPS data of cabs will be recorded and the associated fare for each journey so that the university can verify and accurately pay for cab services provided to the faculty and such.