SURVEY ON OFFLINE GLOBAL POSITION SYSTEM

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Abstract

The topic of the product that we have been creating is a blend of Mobile Arrangements and Leveraging Geo information and Maps to compose the world's data and to make it all around available and valuable to a more extensive and better degree. Our venture is a versatile application that permits the client to download and introduce road maps of a specific city, state on the other hand nation relying upon his present needs from a webpage. The downloaded maps can be searched disconnected from the net by the client and the client can download new maps or redesign the current ones at whatever point he feels the need to do as such. The downloaded maps will be powerful giving the client the vibe as on the off chance that he is skimming the maps on the web. The client's present area will be appeared on the guide utilizing the cell tower data that is given by all the cell system suppliers in this manner making the application utilization totally autonomous of network access. The downloaded maps won't be similar to some picture of a road delineate like a completely utilitarian and dynamic guide that permits the client to hunt down a specific spot such as some shopping center, or some spot for traveler enthusiasm by just talking the name of the spot which will be prepared by the discourse acknowledgment framework which is an extraordinary component of our application exceptionally valuable for individuals who don't know how to perused or write in English.

The outcome delivered by the application will be a most brief by street course to the spot which will be highlighted on the guide, the separation and the appraisal expense of coming to there by a taxicab or a transport administration, any transportation implies like a transport stand or a taxi stand in the nearby region of the clients current area will be highlighted in the guide. Cursor on the guide demonstrating the client's present area will move alongside the client as he voyages subsequently giving him ongoing data of his area.
I. Introduction

The inspiration driving our undertaking is in finished synchronization with the topic that is to arrange the world's data and make it generally available and valuable. The application created will join portable arrangements and geomapping to give basic educational dynamic maps to vacationers, explorers, climbers or any individual attempting to look for data about some place that is obscure to him. The application will be prepared to do lessening the visitor's dissatisfaction and anxiety, as it were, as he will have all the data he needs on the palm of his hands that is on his cell phone. The best part is that the data will arrive with him all the time without obliging him to have any access to any kind of network access, he should do nothing more than to download and introduce the maps of the spot/places he will be going by before leaving and the application will deal with the rest.

This administration will work in territories having extremely week cell systems like rustic or remote places as everything it needs is an extremely negligible gps/cdma association with get the cell data show for finding the client's present area. As a large portion of the information that is the maps and the data identified with creating mapping applications is as of now accessible so the advancement of the application won't cost much as the just work that should be done is sorting out the accessible data legitimately.

This application will plainly expand the availability of the data as it permits mapping administrations to be utilized by individuals who don't have 24x7 access to web or in nations where the web administrations gave by the cell administration suppliers is terrible or problematic .The application will definitely be of awesome use to voyagers and individuals going to country or remote zones what's more, all things considered to the country populace itself. The cherry on the cake is that the quality and substance of the administration would be same as though the client was getting to the maps web giving him absolute consumer loyalty.

II. Guidelines for Manuscript Preparation

Utilizing of Geo information and Mapping Technologies in Mobile gadgets has been existent for a significant number of years now. The greater part of the mapping advances we have now are Online or Global Situating System (GPS) based, similar to the Nokia Maps and Google Maps which are themarket pioneers in mapping innovations and versatile route framework now. Changing over Route to Offline and making it more easy to use and available to a more extensive scope of individuals with restricted setup cell phones (not just the top of the line GPS empowered telephones) is seldom seen
and this is the fundamental inspiration driving our undertaking, i.e. creating an easy to use disconnected from the net route framework for cell phones with more extensive openness and constrained arrangement needs.

III. Math

By and large, any individual who voyages or cherishes to visit new places can utilize our item. Basically vacationers are the general population who can utilize it, as it finds adjacent voyagers spots by finding their position and gives data how to arrive. It even can be utilized by the nearby individuals who need the fundamental data like separation between two spots, reasonable of the taxi from one spot to other. Its logged off mode ability expands its interest in the area of the general population who can't access web effortlessly. Point by point depiction about the surely understood spots and adjacent spots to those spots is additionally a vital element which will empower the general population to discover places and about them. This application can be effectively introduced on any java empowered mixed media telephone furthermore, its guide must be downloaded from the webpage of it. Download the guide of whichever city, range or nation you need and spare it in its information envelope. Also, begin utilizing it. It has a voice interface that follows up on the voice charges given to it, you simply talk the spot you need to inquiry and you will have it on the screen with the required details. Key Features Use of Voice acknowledgment innovation: A Speaker autonomous voice acknowledgment framework is utilized for this product as a part of which empowers the client to locate a specific area in the guide utilizing discourse. This one of a kind highlight takes out the procedure of writing the area name, hesitance in recollecting spellings which prompts mistakes. Likewise this expands the straightforwardness of utilization, and makes its simple notwithstanding for the uneducated people and crippled persons to utilize this product.

IV. Units

This product is a disconnected from the net application. Contrasted with the other web mapping programming, this product needn't bother with a web association for discovering places nor does it needs a GPS innovation or different networks predominantly utilized by online mapping programming. Increased

V. Some Common Mistakes: Geographical Information openness: Generally substantial measure of land data will be accessible to the client through this product, for example, Client's available geographic area. Separation between the client's source and destination places. Most brief and simplest way accessible to the client. Data about closest visitor places and the critical territories in a specific spot which will serve as a manual for explorers. [1]
Simplicity in Usage and Access:
This is one of the fundamental elements of this geo-mapping programming. The utilization of voice innovation joined with a cell phone framework will furnish the general clients with awesome straightforwardness and usability. Indeed, even mechanically powerless clients can utilize this product as the summons are given through voice and downloading this product is straightforward.

Portability:
As this is using so as to programme is worked java applications for cell phones and makes utilization of logged off mapping innovation, it offers awesome conveyability. Clients can utilize it in their cellphones without accessing the web. Explorers and vacationers will be the most profited ones.

Ease of Updation and download:
This product can be effortlessly upgraded against a geographic change in light of the fact that the product will be made for specific zones in pieces, so any adjustment in that specific range is anything but difficult to adjust. Likewise downloading will be simple as the client needs to just download the product for his specific required range. The upgraded adaptations will be promptly accessible in the site which can be effectively downloaded or bought.

Secure and Reliable application:
As it is logged off cell phone programming, it is actually secure from the dangers of the web(infections and Trojans) and the abnormal state of points of interest accommodated the required region what's more, its simplicity of openness makes it extremely solid.

Framework Design Overview
The Design Procedure of our portable application which is a disconnected from the net geo-mapping programming which makes utilization of voice acknowledgment innovation for data is depicted underneath. The system consists of the accompanying parts which are talked about in subtle element beneath with all their operations. [2]

1. Client Input Interface:
Our product will utilize an easy to use voice acknowledgment innovation separated from the content info interface through which the client can enter the name of the region to be looked in the mapping programming.

Voice acknowledgment info framework
This product will utilize a speaker free voice acknowledgment framework through which the client can include the region name to be sought. The framework will change over the word talked by the client to the content shape and will utilize it for seeking the required destination. Let us see quickly how this framework will be composed:

a) Firstly, we will utilize the hashing system to store the names of the considerable number of spots that can be situated in the guide in a hash table. By utilizing a hash capacity we will get a one of a kind key for every spot on the guide. This key will be utilized for seeking and referencing.

b) Next are the procedures of changing over the discourse to information. The simple discourse signal gotten by the versatile sound data framework will be changed over into computerized its fitting computerized content.

c) We will first channel the voice info wave entered by the client utilizing diverse methods with the goal that we get a decent quality voice wave for preparing which will contain the slightest unsettling influence. The procedures utilized as a part of voice sifting are:

a. Evacuation of undesirable commotion and foundation unsettling influences.  
b. Standardization.  
c. Advanced examining.

d) Phoneme Extraction. Next the voice data wave is partitioned into little portions as short as a couple of hundredths of a second or even thousandth known as phonemes. English utilizes around 40 phonemes to pass on the 500,000 or so words it contains, making them a generally decent information thing for discourse motors to work. Next the extricated phonemes are coordinated with their advanced organization and utilizing this, the "phonetic word" is built from the phonemes.

e) Next we change over the phonetic word into the talked word utilizing a "phoneme to English interpretation" lexicon. Hence we will get our required word in content structure from the client's talked voice.

f) Finally we will create the "key" again for this content word utilizing the same hash capacity utilized above and match it with the key in the hash table to find the required place on the network map. In this way the definite lattice for that specific spot can be referenced. [3]

Text based info framework

Aside from the voice information framework, the client can likewise enter the name of the spot to be looked utilizing content (with right spelling). The content pursuit framework is basic and will make utilization of the same hashing
Utilizing the arrangement of voice acknowledgment info, will be more straightforward for the clients and will be extremely advantageous for the ignorant persons and persons with handicap.

2. Databases: Databases contain maps, names of every single conceivable spot said on the guide and points of interest of those spots managing altogether zone of the spot, other imperative spots around the looked place and along the streets from source to destination. The maps we use here are separated into networks as indicated by characterized scale. These scales are subject to the region of the locale initially appeared by the guide. As we attempt to zoom in a specific network it prompts further division of the lattice into littler matrices. As the locale appeared in the guide goes littler the greater is the measure of the matrix. Every spot will be put away in a hash table utilizing key which is created by a unique hash capacity. The lattices are referenced by their relating line and segment number.

3. Different Processes Involved:
- Conversion of the voice i.e. simple wave to literary information by means of computerized wave
- Finding the spots in the guide
- Giving point by point portrayal of the spots which involves: - The territory of the spot Ways accessible for client to the spot Most brief separation between the client and the spot What's more, appearing of other critical spots in the guide close to the spots looked. Transformation of simple wave to computerized wave can be encouraged by the utilization phonetics. There are phonemes in English dialect which is utilized to develop words. After the word is reframed from the phonetic lexicon accessible we contrast the key of the spot and that of the spots put away in our hash table and get the lattice number in which we can find that place and after that find it in that framework. Other point by point portrayal about that place can be either effectively spared in our database or can be ascertained by then of time.
- Territory of the spot, other critical places close to that place and all the accessible ways for the spot from the position of the client can be effectively put away in the database, while to figure most brief separation from the client to the spot we can utilize any of the accessible models calculations, for example, Flood-fill Algorithm on the other hand Djikistra's Algorithm.

4. Graphical User Interface (GUI):

The application will have the basic menu driven client interface. The client can choose the data technique i.e. Voice or content from the menu. Different alternatives like zoom in, zoom out, subtle elements and so forth. can be chosen from the menu. There will be a cursor which can be moved utilizing route keys and any highlighted spot can be clicked to get
subtle elements. The conceivable ways can be highlighted with blue shading and most limited way by some unmistakable shading such as red. The position of the client and in addition the destination (if in Fig the present screen) will be flickering. Other important spots can be set apart in some diverse hues. The alternative to redesign the maps will likewise arrive in the menus.

Adaptation

Creating Cost of the Software

The creating expense of our product is low on the grounds that through a versatile, the greater part of the data and procedures utilized are as of now accessible. We simply need to get the proper data and methods together in an appropriate way. The primary use will be on two things, purchasing the copyright of the maps and keeping up the site from which the clients can download the redesigns and maps of different urban areas. The copyright expense will rely on the sum the organization charges for business utilization of the maps. Taken a toll – Effectiveness for the client or client As the expense of improvement is low so actually the expense of the administration will likewise be low for the end client. Will it be minimal effort as well as recovery the shopper particularly voyagers the multitudinous inconveniences confronted by them while voyaging. Besides as this application requires exceptionally restricted access to the web so it further lessens the expense for the end client. The application made in java can be utilized on any java empowered handset in this way setting aside the need of excessive portable handsets and making the innovation reasonable furthermore, open for more individuals. Therefore we can securely presume that our portable application programming will give a superior costeffectiveness to the clients furthermore the expense of building up the product is very low as contrasted with other internet mapping application or programming which utilizes GPS or other costly advance. [4]
Guidelines for graphics preparation

Conclusion

Voyagers all over the world frequently require a guide for each spot they visit and our item will be prepared inside and out so as to help them. This item is a help to the general population who are uneducated in view of its voice acknowledgment capacity. Presently they don't need to sort the name of the places they wish to visit yet they need to talk the name of the spot and the pilot will discover the spot for them. Its calm unique in relation to rest of the guides because of its utilization in disconnected from the net mode. Presently days different maps accessible are online and the general population in the remote territories could not get to them, either because of no web or low speed of the system. Large portions of them even do not know how to utilize them but rather our guide is anything but difficult to work with.

It's independency on any web work makes it's generally attractive.

Affirmation

We recognize the subsidizing from Google, India (Bangalore) for offering us some assistance with developing a working model of our product.

VII. Reference

2. Alternative Positioning Method Using GSM Signals – Associate Professor - Goh Pong Chai, The 2004 International Symposium on GNSS/GPS.