TASK REMINDER BASED ON LOCATION CONTEXT USING GPS WITH K-NEAREST NEIGHBOR ALGORITHM ON MOBILE DEVICE

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ABSTRACT

Nowdays, task reminder application is very important for many people. Reminder using calendar or time-based reminder on smart phone is commonly used by people, it is use time for trigger. This thing should be better when we use reminder with location as the trigger. It will be useful too if the application can remind us what files that we must bring to accomplish the jobs.

To fix that problem then we can use mixed technologies which named Location-based Service and GPS technology to remind us what should to do. It will be more useful give some suggestions about point of interest locations or files that have to bring up. So we can use technology named context-aware that use to give some suggestions to user about what have to accomplish the jobs with show the point of interest location to help accomplish the jobs. To apply that we can use help from k-NN query algorithm to classify the suggestions to user.

The result of this application test showed that k-Nearest Neighbor algorithm which combined with context-aware method can suggest k number locations that has relation to the task context that has been reminded by the application.

Keyword: Android, Context awareness, GPS sensor, k-Nearest Neighbor.