Mobile Location Alarm

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Objective:

- To Develop a mobile app for setting alarms triggered by specific geographic locations, enhancing user productivity through timely reminders and notifications. Key features include customizable alarms, map integration, background operation, reminder notifications, and privacy measures.

Intoduction:

- In today's world, mobile phones do much more than just make calls. They can track our location, opening up a world of possibilities for apps. One handy use of this feature is a mobile location alarm. This type of app alerts you when you're near a specific place.

- This project aims to make a mobile location alarm using Java Swing. With this app, you can pick a spot on a map and set a distance around it. When you get close to that spot, the app will sound an alarm to let you know. It's like a virtual reminder for when you're near important places.

Literature survey

1. Location Based Alarm Using Mobile Device

Location based alarm represent an emerging location-aware, just-in-time web services, which can propagate information of location to the right users at the right time and the right place. It reminds the user about the location when the user enters some predefined location of interest in the future.

2. An Efficient Power Saving Technique Based Location Alarm For Smart Phones

Today's apps need to be flexible, especially since schedules often change. That's why our app focuses on location-based reminders rather than fixed times. It constantly checks your distance from your destination and alerts you when you're close. It works seamlessly with GPS and mobile network data on Android devices, all while being mindful of battery life. You can set reminders for places or even other users' GPS locations, and notifications can be enabled for both parties based on their chosen proximity radius.
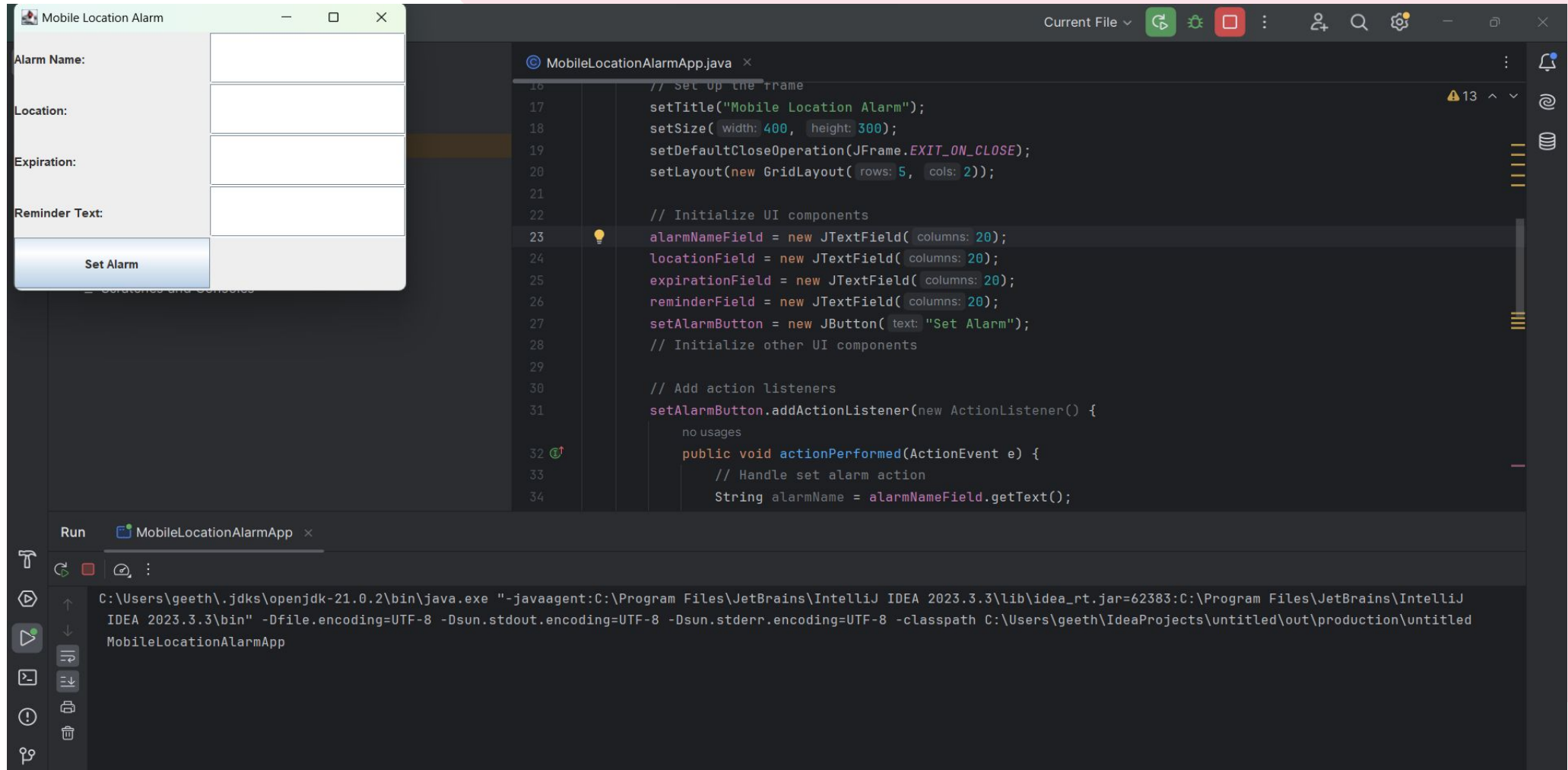
3. Location Detection Alarm using Global Positioning System

This paper introduces an application designed to meet everyday needs by leveraging GPS functionality. Specifically, it focuses on the location-based module, which retrieves the user's current location and compares it with a destination set by the user. When the user approaches the destination within a defined proximity radius, alarms are triggered, displaying relevant reminders set for that location.

Advantages:

1. Location-Based Reminders

2. Safety and Security

3. Preventing Loss or Theft

4. Efficient Time Management

5. Customization and Flexibility

Conclusion:

- The mobile location alarm works by continuously monitoring the user's location using GPS or mobile network data. When the user approaches the specified destination within the set proximity radius, the alarm is triggered, notifying the user of their proximity to the desired location. This functionality enables users to receive timely reminders based on their geographical location rather than fixed time schedules, enhancing their ability to manage tasks and schedules effectively while on the go.

Thank you