

Android Monitoring Suite for Parents

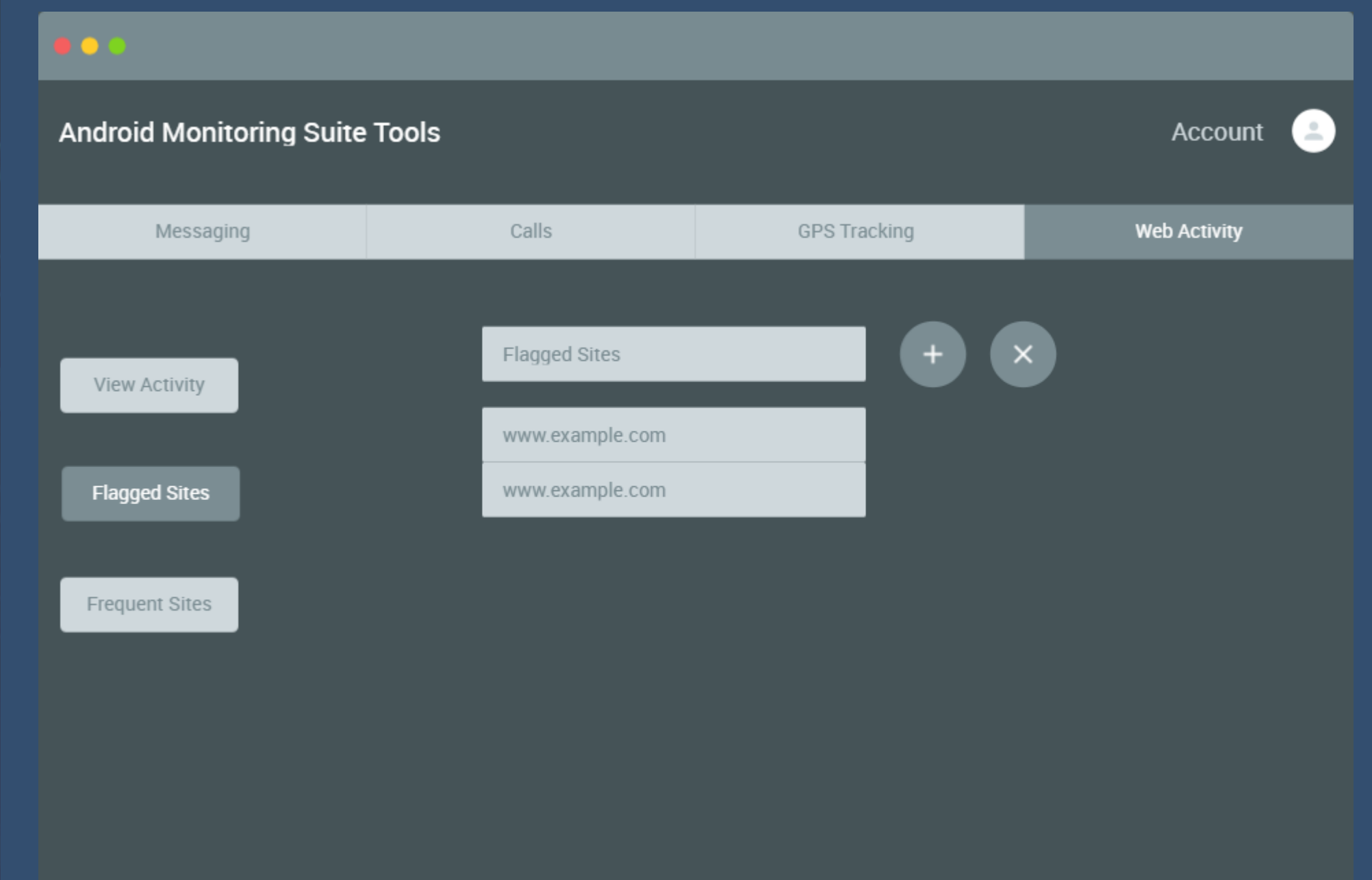
Introduction

In the ever-expanding world we live in, it is becoming increasingly hard to ensure the safety of children due to the ease of access to the Internet, instant messaging and smart Devices^[1]. That is why the overall aim of this project is to produce a suite of monitoring tools for android phones, and an accompanying web app to view the data, that a parent could install onto their child's device, and then monitor the results, in order to ensure that they always remain safe and are not engaging in dangerous activities.



Implementation

After a parent has installed the app and configured it, they can remotely monitor their child's messages, physical location, who they have called and for how long, which websites have been visited and a slew of other features. All of this can be viewed from an intuitive web interface accessible through any computer.



Materials and methods



Kotlin: A modern and concise programming language, very similar to java



MySQL: A secure database language that will be used to store the users encrypted data



Google Play Services : A suite of tools developed by google for app development that facilitates many of the features of the project.

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Conclusions

With record numbers of online child abuse cases each year^[1] and over 35% of children reported that they've been a victim cyber-bullying^[2], It is imperative that parents keep watch over their child's activities both online and offline in order to keep them safe.

It is obvious that a great deal of people already realise this as evidenced by the large number of phone monitoring tools that already exist, such as FlexiSpy™. Hopefully my project will be able to contribute to the protection of children.

[1] NSPCC, *Police record over 10,00 online child sex crimes in a year for the first time*, NSPCC, October 2020. [Online]. Available: <https://www.nspcc.org.uk/about-us/news-opinion/2020/2020-09-03-cybercrimes-during-lockdown/>

[2] Patchin, J. W. & Hinduja, S., *2019 Cyberbullying Data*, Cyberbullying Research Center, 2019 [Online]. Available: <https://cyberbullying.org/2019-cyberbullying-data>