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اتقاء | Etiqa'a

Android Application that Detects Inappropriate Arabic Messages in WhatsApp using Machine Learning

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ABSTRACT

In recent years, an increasing number of Arab children have been using WhatsApp to communicate with each others. This may have several negative consequences, such as being bullied and harassed online, therefore we propose Etiqa'a |اتقاء , an application aimed to minimize risks and keep threats from becoming a reality. The application is based on Arabic WhatsApp messages, which analyzes messages sent to the child, and classifies them using machine learning, then sends a detailed alert to their parents based on the inappropriate threats that are detected.

OBJECTIVES

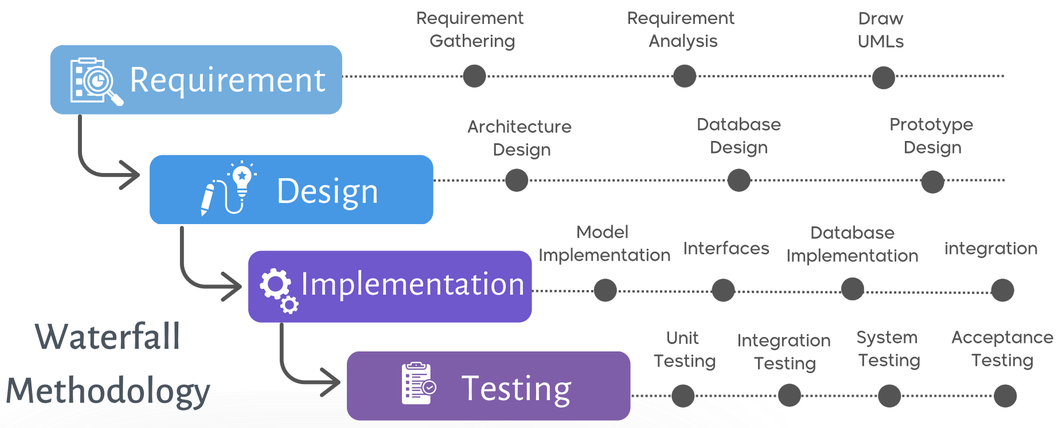
01 Alert parents about detected inappropriate Arabic WhatsApp messages

02 Enable the parents to protect their children and provide internet safety for them

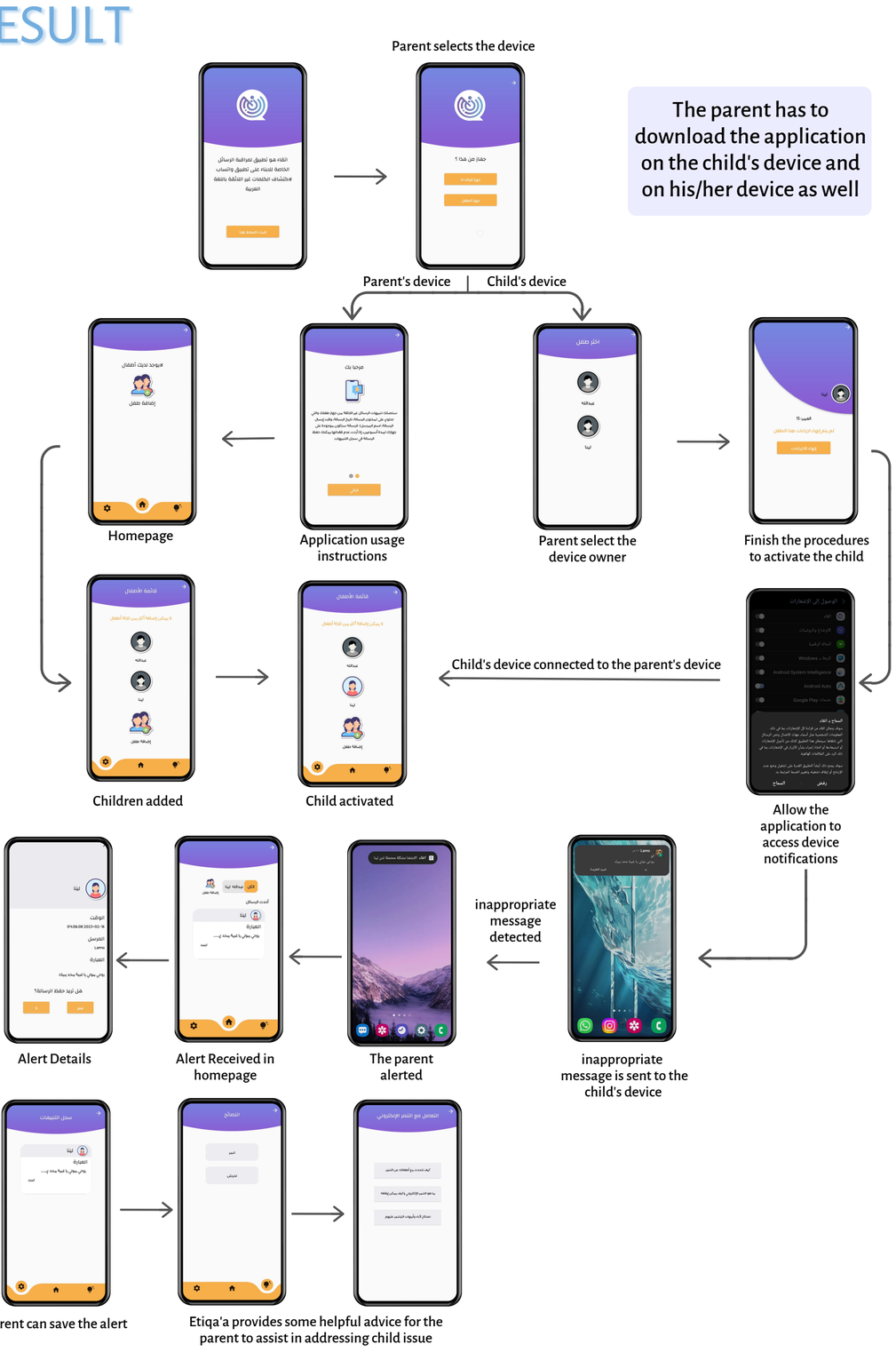
03 Protect children from inappropriate messages

04 Protect the child's privacy by not allowing the parent to read all their messages

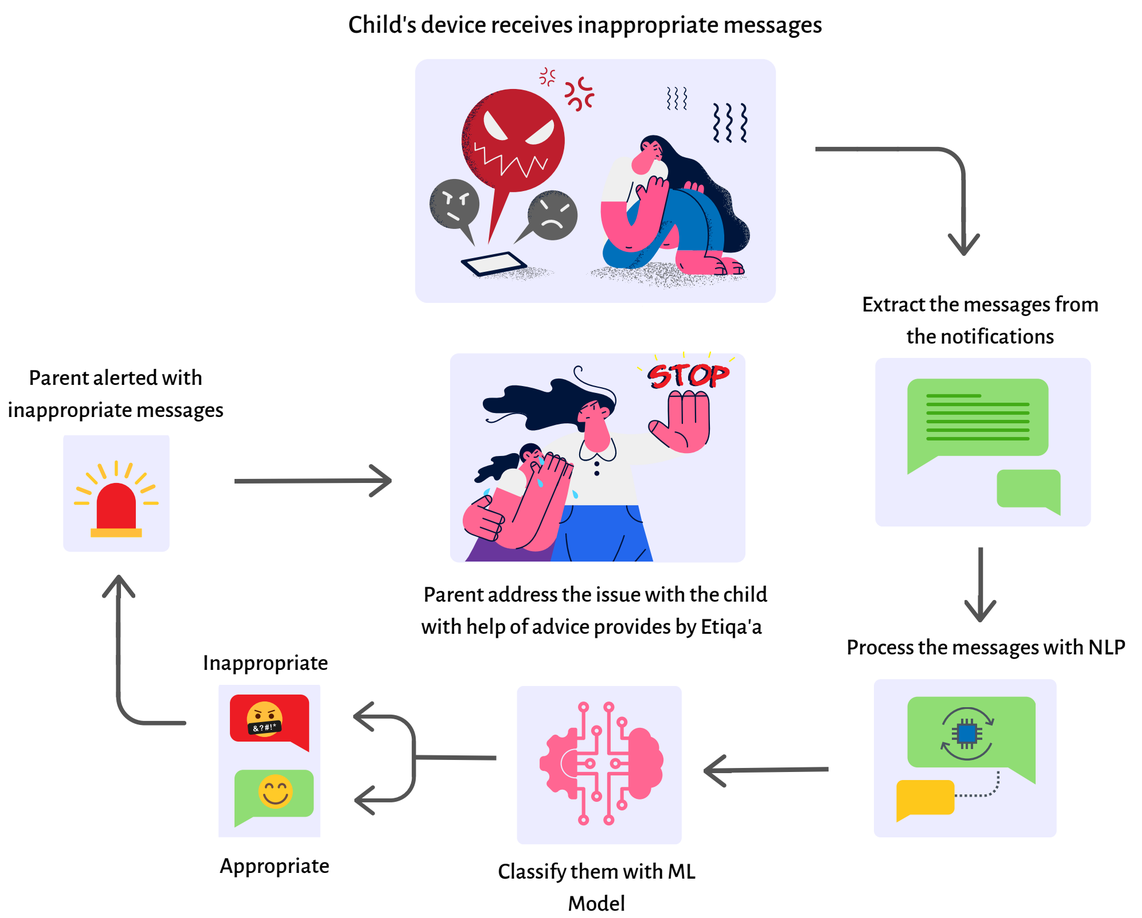
METHODOLOGY



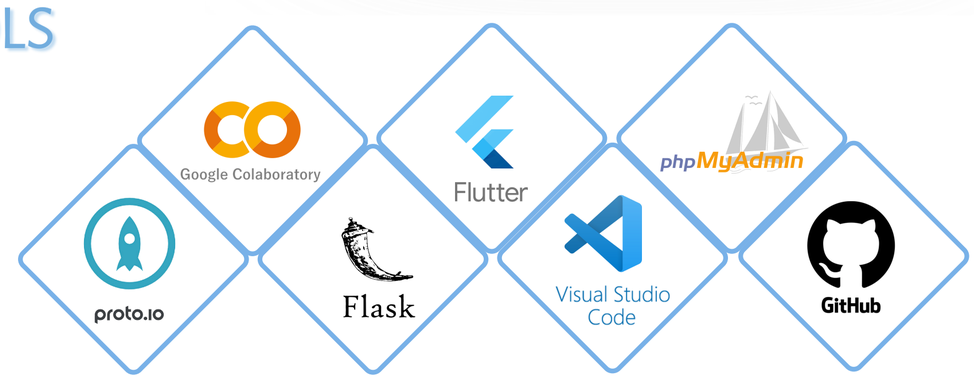
RESULT



SYSTEM DESCRIPTION



TOOLS



CONCLUSION

Etiqa'a is a real-time application that targets parents who want to provide better protection for their children, Etiqa'a model has been trained using Logistic Regression algorithm on Arabic data from 4 different datasets, which processed with natural language processing resulting in an accuracy up to 81.2%, this will enable it to monitor child's messages Intelligently, and perceive child's privacy by only alerting the parents about inappropriate messages. We believe our project will have a significant impact and give parents peace of mind knowing they will be alerted of any inappropriate message.

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For More Details