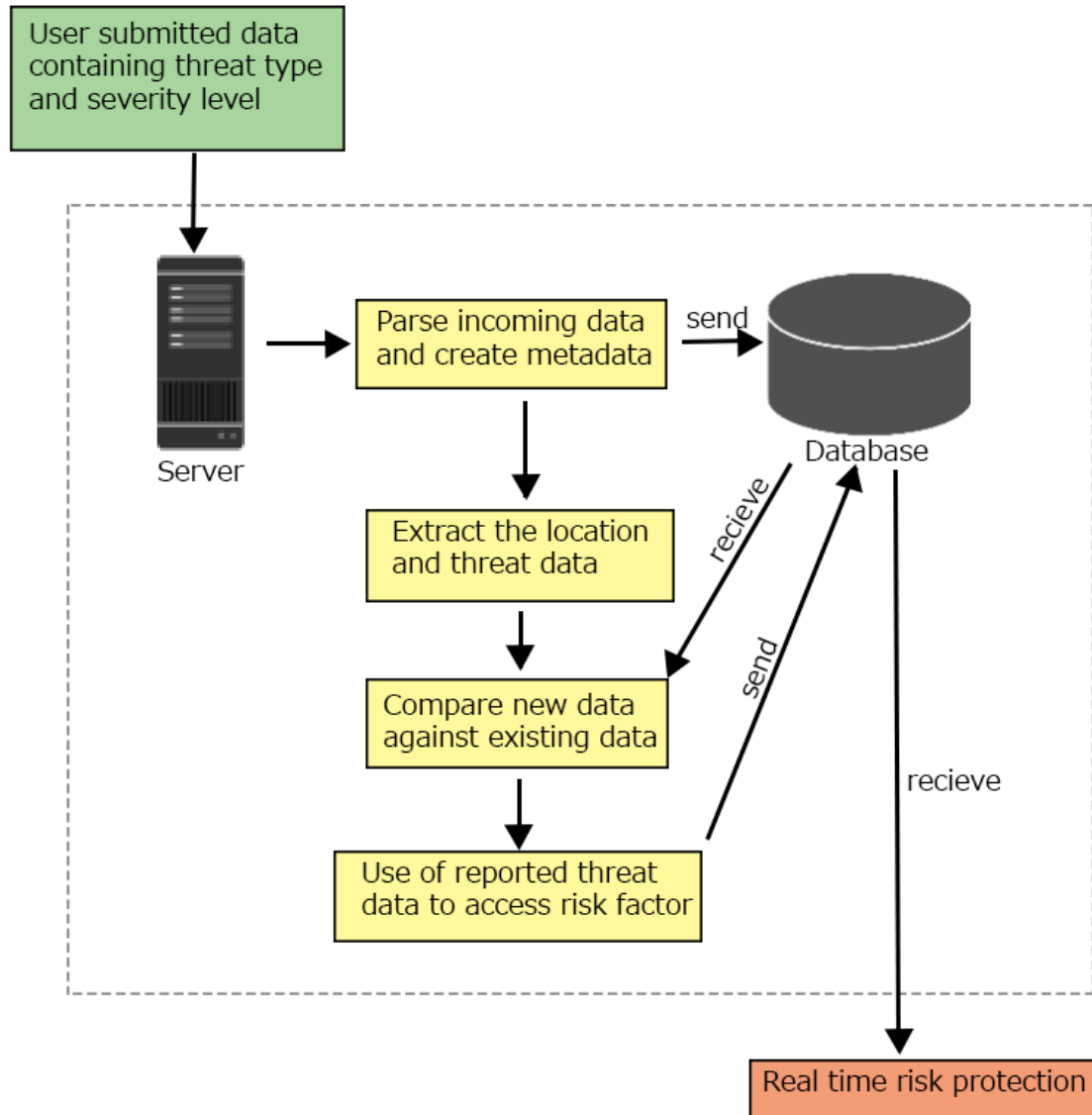# Buddies (CS175) - Patent for "Real time risk protection"

A system and a method that takes user submitted application data, then does some processing, and produces an assessment of a location's risk level in real time. What is the input: Our system takes as input a plurality of information including but not limited to user location data, user sent reports in application containing threat level and type, and any other additional data that the user is willing to send to aid in risk assessment. What is does: Our system does the following operations on the input, including but not limited to parsing the information packets sent from the user and constructing metadata, running newly acquired data against previous data to predict a location's risk factor, and combining all high risk areas into a user accessible database. What is the output: Our system produces a location's risk prediction updated in real time that is accessible to all service users. Our system can be used by many different types of users, including but not limited to Universities, students, government institutions, and big businesses. Our system can be used to predict future threats and advise users on mitigating threats. Part of the novelty is the use of many sources of information, combined in a unique way, to achieve novel capabilities, in a way that is easy to inform and engage the user; as for one of many possible examples, having a report posting board that connects an interactive map of a location to the report posts that were made. The implementation of the system can be in many different ways including but not limited to: (a) fully stand along in a handheld device, (b) desktop computer, (c) server, (d) cloud infrastructure, (e) corporate or institutional infrastructure or (f) in a combination of any or all of the above. Furthermore it can be implemented in a centralized or a distributed way