# Abstract

This project deals with the development of a chatbot application that is able to give tourist recommendations to its users. The application is then integrated into an instant messaging app, in this case the messenger *Telegram*, permitting the user to easily introduce his current location via smartphone to ask for the tourist information in that specific area.

The project focus lies on the development of a server-side architecture to the Telegram Bot. In order to do so, a Java web service is set up that uses the natural language processing platform api.ai to design the chatbot’s conversational interface.

In order to give suitable recommendations, a recommender system is integrated in the web client. A recommendation mechanism is applied that is supported by *case based reasoning*.

Furthermore, a geographic database is set up using PostGis, providing the needed tourist information the recommandations are based on.

**Keywords**: Chatbot, conversational interface, Telegram, recommender system, geographic database, points of interest