

# Integrated trip planner for regional public transport

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## **Abstract**

Trip planning and pre-order ticket purchases in Czech regional public transport are temporarily realized in the form of web-based and mobile applications, which, however, aren't mutually interconnected and often provide unsatisfactory user experience. We present a unified platform for aggregating timetable data and a journey planning algorithm which takes into account the cost savings of using combined regional ticketing, in the form of a REST API and an Android mobile app. The system operates upon nation-wide timetables, supports the tariffs of 7 integrated transport systems and allows for self-service ticket purchases in two of them.