TEAM NAME: KOO-KOO

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TITLE OF THE SOLUTION: „DON´T WORRY, GO HAPPY“

CONCEPT SUMMARY:

How does your solution apply to the mission?

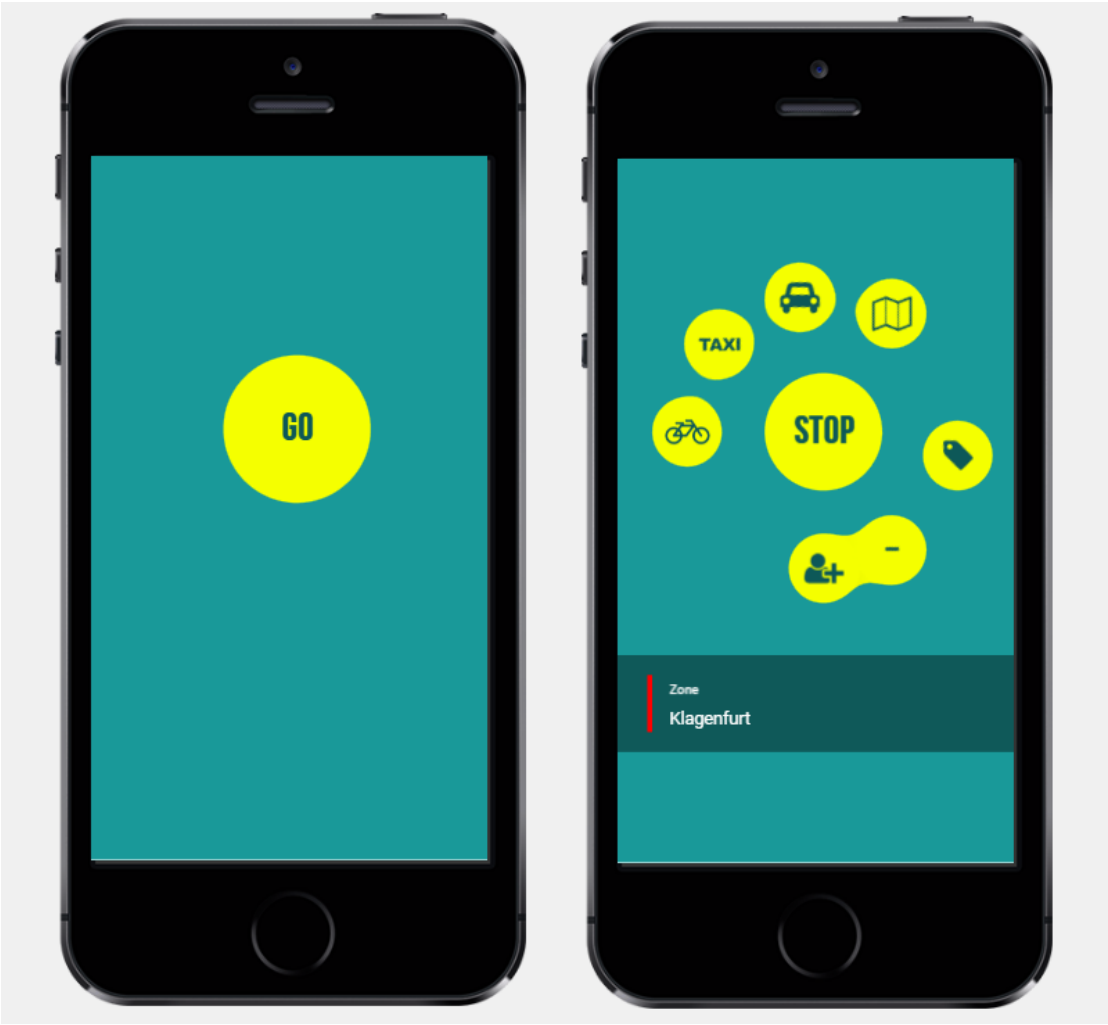
Imagine you wake up in the morning and prepare yourself for going out and there are many options of public transports to take... But don’t worry – the only thing you have to do is to PUSH ONE BUTTON on your phone or smart watch. Your friend can easily travel with you by another click. You can move to your destination without worrying about different tariffs or tickets on public transport. Click the stop button when you have finished traveling. One simple tap allows you to use a taxi, a boat across the Wörthersee or enjoy the benefits of bike or car sharing. Plan your next trip by activating your travel assistant which gives you even more freedom to care about what really matters to you. Going to work, holidays or sports lessons: DON'T WORRY – GO HAPPY!

GENERAL DESCRIPTION:

 # Practicality: Easiest interaction available for any age group. Scalable solution can be easily transferred to other countries and vehicle types.

 # Innovation: Automated system for public transportation, using well known technologies in a better way with our algorithms.

 # Design:



What does the user have to do in order to „get a ticket“?

The user just opens the app, pushes the GO button and that´s it. The app provides a verification screen for controllers so no ticket is needed. The verification screen contains a unique image which can be checked by controllers or drivers in a matter of seconds without any additional device.

Which data is transmitted to the common collection system?

Users send the position, time stamp, and speed to the server. The algorithm on the server side matches the user and the vehicle being used at the moment (line-lock).

 # Path detection/ Tracking: YES, through GPS location.

 # Route calculation: YES, use GO- ASSISTANT in the app which can guide you through the whole trip.

 # Assignment to the vehicle: NO, the assignment to the vehicle is done on the server side based on the GPS location and some additional information.

 # Time tracking: YES, the timestamp is important for the matching algorithm.

 # Possibility of controls: YES, verification screen which contains a unique image recognizable without any additional device (scanner).

Technical aspects:

 # Robustness & Stability: Scalable and robust solution in the cloud and small code-base on the client side. We track the vehicle with a very high accuracy so our algorithms can detect exactly which line (vehicle) is used by the traveler. Information from your co-travelers will increase the robustness of the algorithm. In case of connection problems the client app will buffer data and transmit them when the connection is back.

 # Data security: We use secure SSL-channels for data transmission, minimum amount of data (id, payment data are transmitted only once at registration), the GPS-tracks are stored only until we are sure about the zones and the match of passenger and vehicle. The matching algorithm works on a separate server with anonymized tracks. Irrelevant data are not saved.

 # Interfaces: Third parties are not involved, but the system is flexible enough to provide APIs if needed.

 # User Experience: Minimal interaction that is suitable for all target groups. The app is perfect for people with little technical skills.

 # IOS/Android: Both, as well as Windows Phone (UWP).

How much does the solution costs if applied to the showcase Carinthia?

We need the Backend Cloud Infrastructure and smartphones for the drivers of the public transportation vehicles to track the lines, if the vehicle still does not have a GPS-tracker.

Example calculation:

~600€ per month for the Cloud Infrastructure

~100€ per vehicle for a GPS-Tracker or a smartphone

~9€ per month and vehicle for mobile internet connection