

Catalysing Growth through Research for Transport Equipment Manufacture

Derby & Sandiacre Canal Trust



Summary

Derby and Sandiacre Canal Trust wanted an Android application to be developed for an automated commentary to be provided on the Derby's first electric river boat ride.

Issue to be resolved

The University of Derby helped the Derby and Sandiacre Canal Trust through an ERDF project to design an Android application that enabled them to automate the commentary on the electric boat ride they are planning to launch over the river Derwent. The boat will ride across River Derwent allowing guests to enjoy the river journey and learn more about the enriching history of Derby.

Action taken

Designed an Android Application that provided the ability to automatically play commentary on the river ride using geofences through an android based mobile phone using the onboard GPS/location services.

Result

The result was an Android-based application enabling to play commentary on the river ride. It allows users (boat operators) to set geofences at various locations along with the associated commentary during the ride based on their historical significance to learn more about Derby.

Additional information

The application provides an interface to select the size of the geofences (in metres), along with the ability to set geofences by placing the PIN (correct location of geofence) and an associated button to select the accompanying commentary (MP3 file) to be set. Furthermore the 'Start' and 'End' Buttons allow the Captain of the boat to run a welcome/safety announcement and a farewell announcement on the way towards the completion of the ride. It also has a reset button to reset the geofences.

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