

BACKGROUND

The E-Car club offer access to a range of fantastic electric vehicles available for hire 365

day a year, 24 hours of the day. Smartcard and vehicle telemetry systems fitted into the vehicles allow reservation and access to the car with the swipe of an authorised RFID card.



Hourbike are the UK's widest provider of automated rental bike hire schemes. Their automated bike rental stations can be fitted with minimal disruption due to their design using solar panels to power the control systems and communicate back with the servers to relay bike occupancy and use.

THE PROBLEM

Both E-Car Club and Hourbike operate automated systems to control their assets and monitor usage however customers had to use multiple interfaces to use their assets. Furthermore a large proportion of both companies customer base also prefer to use public transport wherever possible. This meant that customers would have to use several transport interfaces, provide debit card details multiple time and design their journey themselves.

E-Car Club, subsidiary of Europcar has facilities spread across the UK and aimed bring together partner transport services to offer a national solution for e-Mobility and low environmental impact travel.

SKILLS & EXPERTISE REQUIRED

Web engineering, System engineering, Software design, Project planning and App development

SOAP Protocol and API integration.

We host our clients' API and CMS projects on our cloud infrastructure that is reliable, secure and affordable. Our hosting services are easy to scale as demand increases.

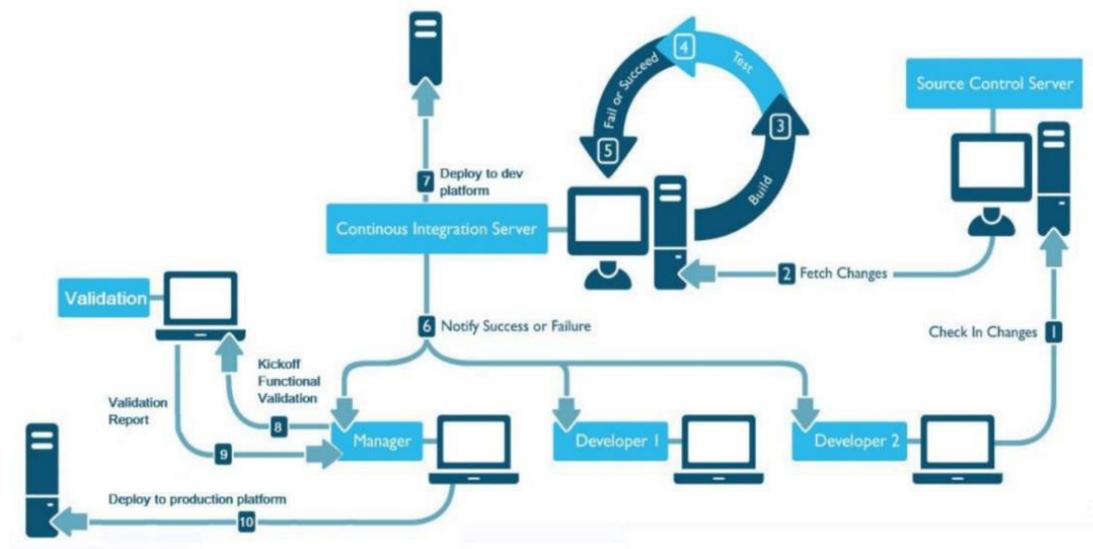
SOLUTION

Building a one stop shop for multiple transport interfaces. Linking Midlands Rail, E-Car Club rental services, Future Transport systems and Hour bike.

Hangar 19 proposed that we build Motionhub and launch an app where multiple APIs are integrated. Furthermore build single 'hub' locations where a customer can hire an electric car or bike and e-bike, accessible with a single membership. These provide first/last mile transport options available from a digital platform which also offers train, bus and other local transport options. This means visitors to a given location have a full journey planning, information and booking mechanism for their journeys. We proposed creating a viable platform for integrating transport services to provide convenient and sustainable transport choices for passengers and enhance end-to-end journey options. The website will provide:

- Advanced journey planning systems encompassing all public transport, bike hire, car club and car hire vehicles options.
- Booking systems to allow all parts of the journey to be purchased from a single site.

- ‘Mobility as a Service’ piloting, permitting some/all of the transport modes to act under the MaaS umbrella.
- Behaviour change functionality to support people to make the shift from conventional transport modes to more sustainable choices.



Motion Hub Development & Release Strategy

OUTCOME

The Beta launch of the MotionHUB App was a success. The Motion HUB brings together electro mobility solutions with low impact transport services across the UK. Through the Motion HUB members get access to a wide and increasing range of transport solutions and facilities.

With one card members get access to:

- Bike hire schemes in cities and towns across the country.
- The E-Car pay per use car club providing hourly electric car rental when and where you need it.
- Access to chargepoints throughout the E Car Club electric vehicle recharging network

The demonstrator site was delivered in Southend-on-Sea and included several progressive stages. Bikes and e-bikes are available 24hours a day, with 3 initial bike stations and rates from £2 per hour. 10 electric vehicles are located in up to 5 locations across the town. Additional extra functionality and transport modes will be added by the end of the year. The service is aimed at local users in the Southend area, commuters and visitors to the area looking for the most cost effective and sustainable routes to complete their journey.

Europcar have now sanctioned a further contract to implement Operations support to MotionHub customers.

Hangar 19 are further involved in two feasibility studies for E-Car Club, as well as supporting their charging points on our chargepoint management system, Hubeleon.