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| Title | **Carpool Booking Portal - Web Application** |
| Project Sponsor | **John Kilmister - Principal Software Architect and Microsoft Azure MVP** [**John Kilmister Linked In**](https://www.linkedin.com/in/johnkilmister/) |
| Video |  |
| Brief | **Problem Statement** The client company has a pool of cars and vans that are shared by employees as they are needed. These are used both for site visits and to transport equipment. The issue is that staff often find booking these an issue.  Staff currently use a set of shared outlook calendars for each vehicle however it can be hard to find one that is free and book it.  Users also must log the vehicles trips and millage for the accounts department to cross charge.   **Solution Overview** A booking portal to allow staff to find and book available vehicles. The website should work on desktop also on mobile for the staff out in the field. There should be two levels of account; Admin and Standard Users.  **Admin Users** As an Admin user I should be able to:   * Login * Add/Remove standard users who can login to the Booking Portal * Add/Edit/Remove cars and vans with their details (including disabling a vehicle that is off the road)   **Standard Users**  As a logged in user, I should be able to:   * Login * Search for an available vehicle based on the time and date, vehicle make/model, vehicle type and vehicle size * Book a vehicle for the duration making it unavailable for others during this time. This will also log the trip so the millage can be tracked by the accounts team * View booked trips and allowed to cancel them   **Nice to have features**  Ideally when a trip is booked the site would use the APIs to auto calculate the distance.  Ideally login would be using single sign on to a Microsoft Account.  **Useful Links**  <https://azure.microsoft.com/en-gb/free/students> <https://learn.microsoft.com/en-us/rest/api/maps/route/get-route-directions?view=rest-maps-1.0&tabs=HTTP> |