



An Investigation into The Use of Software for Vehicle Booking Systems For Dap’s Airport Travel Scott Davies (142668)



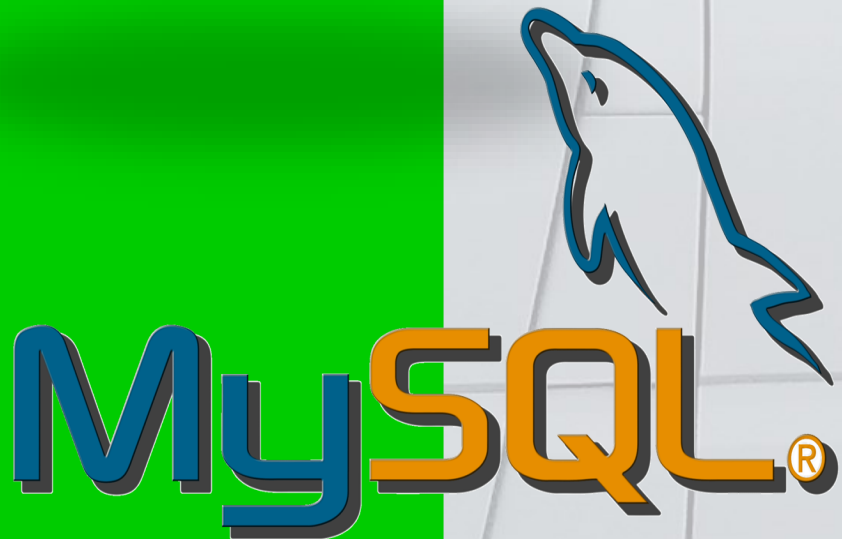
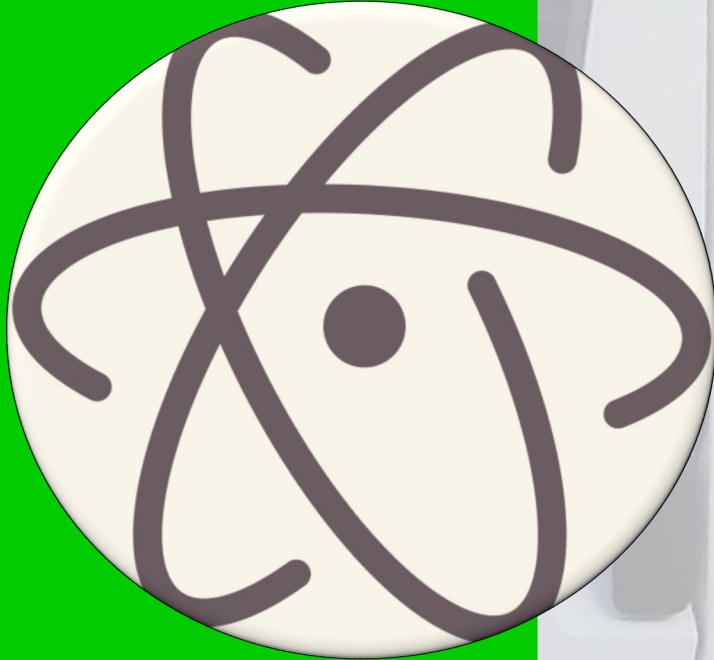
1. Intro to the business & Problem

Dap’s airport travel is a self-employed taxi and mini-bus hire which was founded in 2016 by Michael Davies in Neath, Neath Port Talbot, West Glamorgan, South Wales. The business is currently being run from Michael’s home via paper booking forms, filled in by Michael via customer request over the phone and then manually typed and saved into a spreadsheet on his computer system. Due to increased business demand, the company is now considering software to help manage the bookings.



4. Programming Languages, Database and IDE

- Programming Languages**— As it’s a website, the HTML/CSS language is going to be used. To connect to the database, the PHP language will be used due to its increased flexibility, popularity and support over ASP.NET and C++
- IDE** – ATOM was chosen to program the software due to free licensing and capability to support various programming languages
- Database** – The database package that was opted to be used was MySQL. This was chosen because its easier to work with, handles up to 250million rows of data and also a better chance of finding an ISP to support it due to its popularity



- 2. Aims and Objective**
- To be successful, the project needs to:
- Automate Business Processes
 - Advertise the services
 - Have secure accounts
 - View/Amend/Delete Bookings (Managers)

- 5. Results/Conclusions**
- **Computerised/Automated Business Processes** - Customers can now make a booking online any time of day and night which means Mike no longer has to do it himself in his own time
 - **Secure** - Customers/Managers have their own credentials to access their own data/bookings.
 - **Entity Relationship Diagram** – This helped the developer to understand how the system tables and their relationships should be created.
 - **Bug Testing** – This ensured there was no bugs and made sure validation meant bugs can be avoided
 - **User Acceptance Testing** - A potential user used the site and gave feedback to accept the site and give improvement recommendations
 - **Completed within deadline** - The site was developed 2 weeks before the stated deadline, which left time for improvements and further documentation if needed.



- 3. Literature Review Findings and Decisions**
- Application Software**— Complicated to use and still manual input
- Visual Basic**—Too bland and does not promote well
- Off-the-shelf**—Still manual input and limited to design
- Web Application**—Meets all requirements
- Mike should use a web application to replace and improve his current system which will help to make Dap’s Airport Travel a more flexible business process which will not have so much of a disturbance to Mike’s personal life and will allow customers to make bookings any time at their own leisure as well as researching the business to look at their services and learn more about Mike and the business before committing to booking.

- 6. Improvements for Future Developments**
- If I was to do this work again, I would implement the following improvements:
- **Price Quotes** — Implement a feature to show customers the price before booking
 - **Google Maps**—Implement a Google Map to show the proposed route and calculate costs based on cost per mile
 - **Booking Overview**—For the customers to view their bookings
 - **Online Payments**—For customers to pay in advance

Welcome to Dap's Airport Travel

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Thank you for choosing Dap's Airport Travel



We are an independant Taxi/Minibus firm based in Neath Port Talbot who are happy to transport you to airports and also to your other preffermed places of leisure including

- Weddings
- Funerals
- Airport
- Sporting Events
- Days Out - Inc. School Trips and family/friends outings

We are also happy to cater for weekly contract hire for schools and retirement homes

[Manager Login](#)

Booking Form

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Hi, scott.davies@live.co.uk. Welcome to our site.

Your Customer ID is number 24

16 Seater



8 Seater



4 Seater



Our 16 seater ford transit minibus used for travel for up to 16 people for airport trips or days out

Our 8 seater luxury Ford Tourneo used for travel for a smaller group of people.

Our executive Mercedes for luxurious travel, including weddings and groups

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Booking Form

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Hi, scott.davies@live.co.uk. Welcome to our site.

Your Customer ID is number 24

Sixteen Seat

31st May 2018

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Book a service

To book a service, please enter your details into the relevant textboxes and click the 'Add' button

Booking Details

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Vehicle ID: YR13VBN

Customer ID: 24

Pickup Date: 31/05/2018

Pickup Location (Address and Postcode): Rhakos Location

Pickup Time (24hr Format): --:--

Dropoff Location (Address and Postcode): DropOff Location

Return Date: dd/mm/yyyy

Return Time: --:--

Special Requests: None

[Add](#) [Clear](#)

Bookings

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Current Bookings

Booking Reference	Vehicle Registration	Customer Reference Number	Pickup Date	Pickup Location	Pickup Time	Dropoff Location	Return Date	Return Time	Special Requests	Date of Booking	?
44	KT16LKK	40	22/07/2018	1 Main Road, Skewen	12:00	Cardiff Airport	2018-07-30	12:30	Wheelchair Access	2018-04-29	15:22:25
47	VA16UXT	41	2018-05-10	1 Pontardawe Road	02:00	Gatwick Airport	2018-05-14	16:30	None	2018-04-29	15:37:47

[Delete record](#) [Clear](#)

Month Overview - 16 Seater

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May 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

May

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2018

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