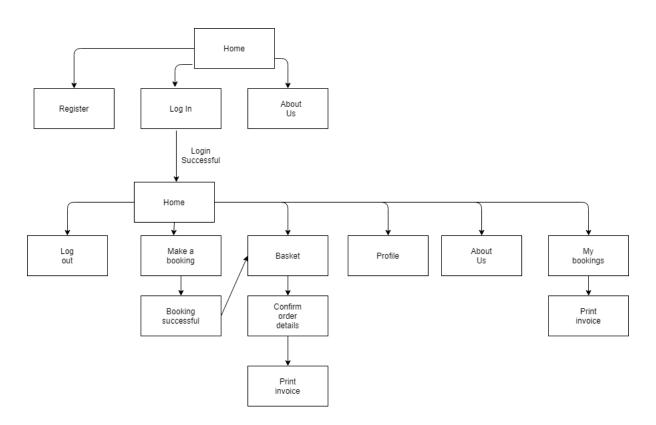
# E-commerce: Publishing Websites Learning Outcome 2 & 3 Design

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# Sitemap



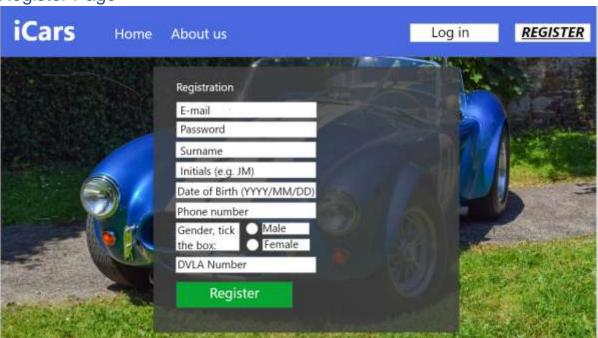
# Storyboard

## Homepage

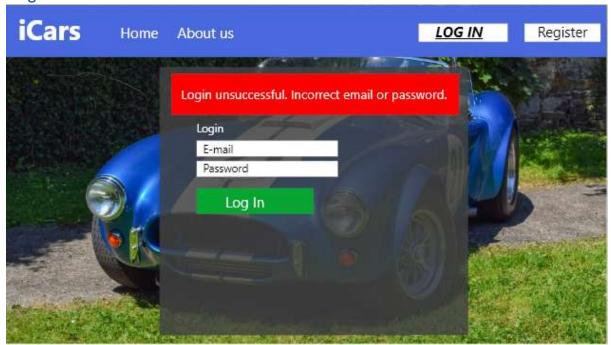
Current page shows in bold, underlined and in capitals so that the user knows.



# Register Page



## Login unsuccessful



# My bookings



# Accessibility

It is important to add 'alt' attribute in html to describe images to disabled users. It can be used for background images in this case but also potential vehicle images.

It is also necessary to make the font-size reasonably large so that it is easily readable for anyone using the website.

People with certain vision impairments such as glaucoma and cataract have low contrast sensitivity. (W3C, 17/03/2016). Therefore it is important to make background to font have high contrast, so they are easily distinguishable.

The website can make use of ARIA roles to identify certain objects on the webpage and make it more accessible for screen readers.

## Website Database

## **ER** Diagram

A driver can make many bookings, and many bookings can be made on the same vehicle if it is a different date.



# **Data Dictionary**

#### Driver

able										
System: 20005760 Entity: Dri		r	Version: 1.0	Date: 28/3/2021						
Description: Stores information about the driver										
Attribute	Туре	Size	Mandatory	Comment						
Driverid	INT	4	Yes, NOT NULL	Auto increment = 1000 for auto generated 4-digit id						
Email	VARCHAR	20	Yes, NOT NULL	Will be used as username						
Password	VARCHAR	8	Yes, NOT NULL							
Surname	VARCHAR	20	Yes, NOT NULL							
Initials	CHAR	2	No, NULL							
DateOfBirth	DATE		YES, NOT NULL	Format YYYY/MM/DD						
PhoneNo	VARCHAR	15	No, NULL							
Gender	CHAR	1	No, NULL	M = Male, F = female						
DvlaNo	VARCHAR	20	Yes, NOT NULL							
	tion: Stores informattribute Driverid Email Password Surname Initials DateOfBirth PhoneNo Gender	: 20005760 Entity: Drive tion: Stores information about the Attribute Type Driverid INT Email VARCHAR Password VARCHAR Surname VARCHAR Initials CHAR DateOfBirth DATE PhoneNo VARCHAR Gender CHAR	: 20005760         Entity: Driver           tion: Stores information about the driver           Attribute         Type         Size           Driverid         INT         4           Email         VARCHAR         20           Password         VARCHAR         8           Surname         VARCHAR         20           Initials         CHAR         2           DateOfBirth         DATE           PhoneNo         VARCHAR         15           Gender         CHAR         1	: 20005760         Entity: Driver         Version: 1.0           tion: Stores information about the driver         Attribute         Type         Size         Mandatory           Driverid         INT         4 Yes, NOT NULL           Email         VARCHAR         20 Yes, NOT NULL           Password         VARCHAR         8 Yes, NOT NULL           Surname         VARCHAR         20 Yes, NOT NULL           Initials         CHAR         2 No, NULL           DateOfBirth         DATE         YES, NOT NULL           PhoneNo         VARCHAR         15 No, NULL           Gender         CHAR         1 No, NULL						

### Booking

<b>Booking Tab</b>	le				
System: 20005760		Entity: Booking		Version: 1.0	Date: 28/03/2021
Description:	Stores information regar	ding the booking			
Key	Attribute	Type	Size	Mandatory	Comment
PK/FK	VehicleNo	INT		2 Yes, NOT NULL	Auto increment = 10 for auto generated two digit id
PK	BookingDay	DATE		Yes, NOT NULL	
PK/FK	Driverid	INT		4 Yes, NOT NULL	Auto increment = 1000 for auto generated 4-digit id
	AccountStatus	CHAR		I No. NULL	Blank as default, I for invoice sent, P for paid

#### Vehicle

Vehicle Ta	able				
System: 20005760		Entity: Vehicle		Version: 1.0	Date: 28/03/2021
Descriptio	m: Stores information al	bout the vehicle			
Key	Attribute	Type	Size	Mandatory	Comment
PK	VehicleNo	INT		2 Yes, NOT NULL	Auto increment = 10 for auto generated two digit id
	VehicleReg	CHAR		9 Yes, NOT NULL	Format = 'SY NN CCC'
	MakeModel	VARCHAR		25 Yes, NOT NULL	e.g. Toyota Rav 4
	DailyCost	INT		2 Yes, NOT NULL	Cost in £(GBP)

### **SQL** Scripts

#### **Table Creations:**

```
DROP TABLE IF EXISTS Driver;
CREATE TABLE Driver(
   Driverid INT (4) NOT NULL AUTO INCREMENT=1000,
    Email VARCHAR (20) NOT NULL,
    Password VARCHAR(8) NOT NULL,
    Surname VARCHAR (20) NOT NULL,
    Initials CHAR(2) NULL,
    DateOfBirth DATE NOT NULL,
    PhoneNo VARCHAR (15) NULL,
    Gender CHAR(1) NULL,
    DvlaNo VARCHAR (20) NOT NULL,
    PRIMARY KEY (Driverid)
DROP TABLE IF EXISTS Booking;
CREATE TABLE Booking(
    VehicleNo INT(2) NOT NULL AUTO_INCREMENT=10,
    BookingDay DATE NOT NULL,
    Driverid INT(4) NOT NULL AUTO_INCREMENT=1000,
    AccountStatus CHAR(1) NULL,
    CONSTRAINT BookingPK PRIMARY KEY (VehicleNo, BookingDay, Driverid),
    FOREIGN KEY (VehicleNo) REFERENCES Vehicle (VehicleNo),
    FOREIGN KEY (Driverid) REFERENCES Driver(Driverid)
    );
DROP TABLE IF EXISTS Vehicle:
CREATE TABLE Vehicle(
    VehicleNo INT(2) NOT NULL AUTO INCREMENT=10,
    VehicleReg CHAR (9) NOT NULL,
    MakeModel VARCHAR (25) NOT NULL,
    DailyCost INT(2) NOT NULL,
    PRIMARY KEY (VehicleNo)
Example inserts:
```

```
INSERT INTO Driver
VALUES (1234, 'icars@cars.com','Password','John','JJ','1999/01/01','+447575646464','M','BSEJ38224BG87');
INSERT INTO Booking
VALUES (20, '2021/03/30',1234,'I');
INSERT INTO Vehicle
VALUES (20, 'SS 99 GYY','Toyota Yaris 2012','John',25);
```

# **Bibliography**

• Accessibility requirements for People with Low Vision, 17/03/2016, W3C.org, available at:

https://www.w3.org/TR/low-vision-needs/

Date Accessed: 28/03/2021