

Assignment 3: User Authentication

- **Day 1 (Week 6): [Day when assignment was released]:**
 - **Modify your code and add data encryption on License Number and save them to DB [Mark 1]**
- **Day 2: [Week 9]:**
 - **Modify login page, Add signup/login. [Mark 1]**
 - When user selects SignUp => ask username, password, repeated password
 - Also create a dropdown list UserType: Driver, Examiner, Admin
 - From SignUp menu, user can enter username, password, repeated password, UserType
 - Save the data in User Collection – make sure password is encrypted, you don't need to save password two times
 - When you save data make sure you encrypt password, no need to save repeated password
 - For this you need to update the User Model, so that you can add username, password and UserType fields
 - You also need to modify your user model, so that at the time of signup you also add certain default value about other fields in User Collection (firstname, lastname, LicenseNo, Car Info)
- **Day 3: [Week 10] Entire Assignment due [Mark 10]**
- Start rearranging code appropriately in MVC pattern
- Now you have completed signup part
- Once signup is successful ask user to login
- When user selects Login => ask for username, password
 - **There are two scenarios here:**
 - **User is login first Time: In this case, all the values are default, stored using User Model**
 - **User is login second Time: In this case, all the default values are updated by user supplied values**
- **If login is successful, now show the navigation option for G2_page, G_page, if the UserType is Driver (Ref: Book page: 95)**
- **After successful Login Only UserType = Driver can access the G2_Page, G_page. So appropriately protect the path/routes**
- **By now you can understand that previously entered User data is of NO USE. You may goto DB and delete previous entry.**
- **Now if you visit the G2_page and if License No is default value, You present the empty G2_page where User can enter the information similar to Assignment_2**
- **You also need to modify G_page, and remove search option based on License No**
- Simply display data on G_page based on Login user, when user is login you have all information about user
- Again, if all data are default, you can assume that User has not entered information from G2_page
- By now both G2_page and G_page would check if the user data are default or not, then take user to G2_page and offer to add all the information
- If login is unsuccessful ask user to signup first
- Also make sure G2_page & G_page is authenticated and only accessible by Driver only, for this you need to add user_id (MongoDB Object ID) and user_UserType into browser's session (**Ref: Book page: 95 - 96**)

- You need to modify the way you save data from G2_page, previously you were Inserting data into Database. Now due to login functionality you will update the user data and offer to save extra items to User Collection. User is already created in SignUp. You could only be able to access G2_page, G_page only after login. Both pages are protected now using User Authentication. You will update the User data in DB based on user_id (MongoDB) you received in login step.
- If user have already entered G2 data, and login again you show those data on G2 page
- You can keep the functionality of G_page as it is, and allow to be accessed by only login user with UserType = Driver
- Also incorporate validation mechanism and display common input errors (duplicate username, empty field, License number length etc)
- For this assignment you can assume that user is selecting only “Driver” – UserType from dropdown list on the SignUp page
- **Summary: In this assignment, you will add user authentication and protect G2_page, G_page, so that only login User with UserType= Driver can access this page.**

- **Modified User Model: With only username, password and userType the rest of the fields are default**

```
{
  firstname: 'default',
  lastname: "default",
  License No: "default",
  Age: '0',
  Username: 'demo',
  Password: 'demo', //Encrypted value
  UserType: 'Driver',
  car_details: {
    make: ' default ',
    model: ' default ',
    year: '0',
    platno: ' default '
  }
}
```

Sample SignUP/Login Page: User has not login yet, No option for G2_Page/G_Page

DriveTest

HOME LOGIN

Sign up

User name

Password

Confirm Password

User Type

Driver

Sign up

Login

User name

Password

Login

Sample Dashboard after user login: Option to select G2_Test, G_Test & Logout

DriveTest

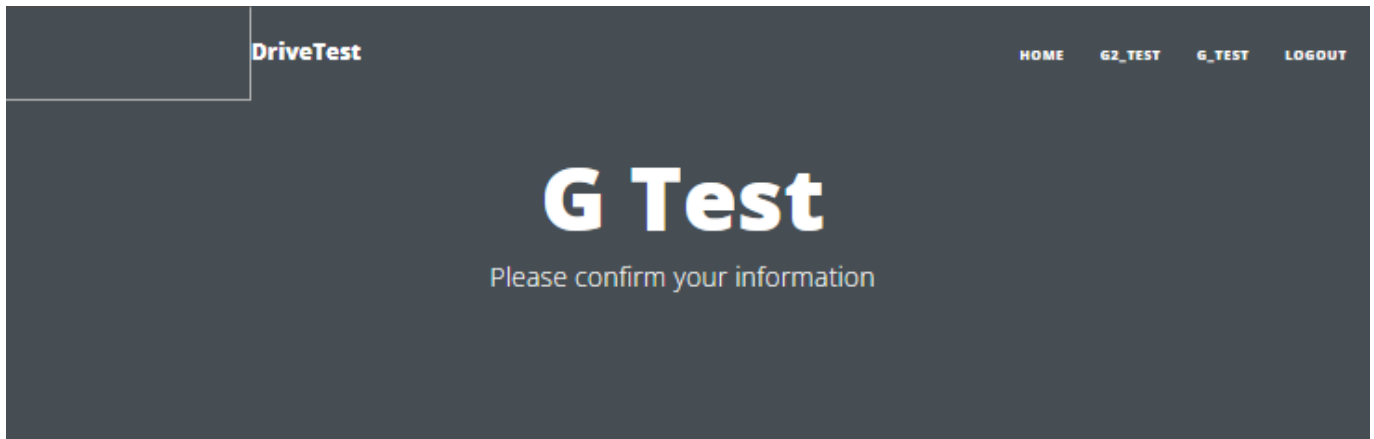
HOME G2_TEST G_TEST LOGOUT

Dashboard

DriveTest Booking Kiosk

Sample G_page after user login: User can't modify FirstName, LastName, Age. Car Info can be modified.

No need to offer search textbox to Input License No.



Book a G Road Test

Please check/update your information

First Name
James

Last Name
Bond

Age
20

Car Info

Maker
Jaguar

Model
Truck

Year of car made
2000

Car plate number
AGENT007