- **Kiosk for picking time slot for G, G2 drive test:**
  (Continue from assignment 2, make sure it is working correctly)
  - In this application you will simulate some of the actions that you perform in Drive test center. But here you have greater flexibility to pick the time of your choice. You will also develop an extension of this application by adding few other user interfaces to perform different actions. Mainly entire application consists of following parts:
  - 1. Driver Interface (a person who wants to take G2/G license)
  - 2. Examiner Interface (a person who takes driver's exam)
  - 3. Admin (a person who adds schedules and other stuff in the portal)

Assignment 3: User Authentication

  - **Day 1 (Week 6): [Day when assignment was released]:**
    - **Modify your code and add data encryption on two fields, License Number & DOB 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

  - **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
  - If login is successful, now show the navigation option for G2_page, G_page, if the UserType is Driver **(Ref: Book page: 95)**
  - 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 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 you received in login step.

- If user have already entered G2 data, and login again you may show those data on G2 page or offer completely blank page so that user can enter G2 data again. And you can overwrite them in DB
- You can keep the functionality of G_page as it is, but allow to be accessed by login user and UserType = Driver
- Also incorporate validation mechanism and display common input errors (duplicate UserID, 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 protest G2_page, G_page, so that only login User with UserType= Driver can access this page.**