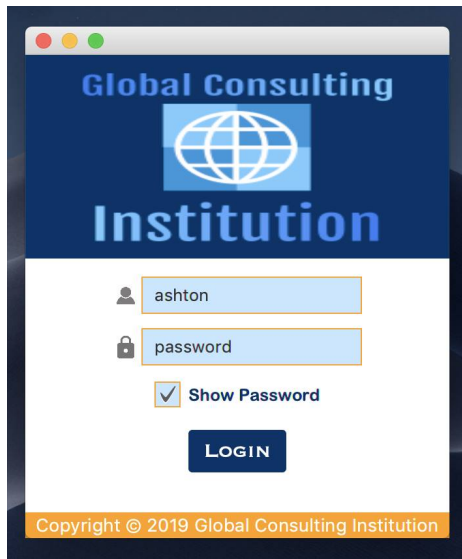
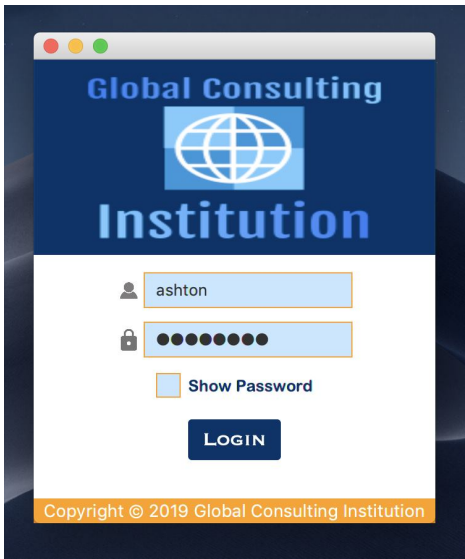


Project by Ian De Bie

- A. Create a log-in form that can determine the user's location and translate log-in and error control messages (e.g., "The username and password did not match.") into **two** languages.
- B. Provide the ability to add, update, and delete customer records in the database, including name, address, and phone number.
- C. Provide the ability to add, update, and delete appointments, capturing the type of appointment and a link to the specific customer record in the database.
- D. Provide the ability to view the calendar by month and by week.
- E. Provide the ability to automatically adjust appointment times based on user time zones and daylight saving time.
- F. Write exception controls to prevent *each* of the following. You may use the same mechanism of exception control more than once, but you must incorporate *at least two* different mechanisms of exception control.
 - scheduling an appointment outside business hours
 - scheduling overlapping appointments
 - entering nonexistent or invalid customer data
 - entering an incorrect username and password
- G. Write two or more lambda expressions to make your program more efficient, justifying the use of each lambda expression with an in-line comment.
- H. Write code to provide an alert if there is an appointment within 15 minutes of the user's log-in.
- I. Provide the ability to generate *each* of the following reports:
 - number of appointment types by month
 - the schedule for each consultant
 - one additional report of your choice
- J. Provide the ability to track user activity by recording timestamps for user log-ins in a .txt file. Each new record should be appended to the log file, if the file already exists.
- K. Demonstrate professional communication in the content and presentation of your submission.





Customers

+ Add

Modify

Delete

Search

Search by customer name

Name	Phone	Address	City	Postal Code	Country
Alex Rodriguez	111-111-1111	123 Mariners	Seattle	11111	US
Alex Verdugo	111-111-1111	123 Main St	Puerto Rico	11111	US
Babe Ruth	111-111-1111	123 Yankee Stadium	New York	11111	US
Barry Bonds	111-111-1111	123 Giants Ave	San Francisco	11111	US
Barry Larkin	111-111-1111	123 Main St	Los Angeles	11111	US
Darryl Strawberry	111-111-1111	123 Mets	New York	11111	US
Dave Winfield	111-111-1111	123 Padres	San Diego	11111	US
Don Jose	111-111-1111	123 Blanca St	Madrid	11111	SPAIN
Eric Davis	111-111-1111	123 Reds	Cincinnati	11111	US
Hank Aaron	111-111-1111	123 Main St	Atlanta	11111	US
James Bond	111-111-1111	123 Penny St	London	11111	UK
Jose Canseco	111-111-1111	123 Main St	Oakland	11111	US
Ken Griffey Jr	111-111-1111	123 Mariners	Seattle	11111	US
Liv Ullmann	111-111-1111	123 Sardine	Oslo	11111	NORWAY
Lou Gehrig	111-111-1111	123 Main	New York	11111	US
Mark McGwire	111-111-1111	123 Homerun Ave	Oakland	11111	US
Mary Jones	Ffffffffff	33 Oak St	Yorktown	52369	USA
Nolan Ryan	111-111-1111	123 Astros	Houston	11111	US
Paul Molitor	111-111-1111	123 Twins	Minnesota	11111	US
Ponce De Leon	111-111-1111	123 Flamenco	Valladolid	11111	SPAIN



Customers

+ Add

Mo

Search

Search by customer name

Add Customer

Name

Phone

Address

City

Postal Code

Country

Save

Cancel

Copyright © 2019 Global Consulting Institution

Name

Alex Rodriguez

Alex Verdugo

Babe Ruth

Barry Bonds

Barry Larkin

Darryl Strawberry

Dave Winfield

Don Jose

Eric Davis

Hank Aaron

James Bond

Jose Canseco

Ken Griffey Jr

Liv Ullmann

Lou Gehrig

Mark McGwire

Mary Jones

Nolan Ryan

Paul Molitor

Ponce De Leon

Ffffffff

111-111-1111

111-111-1111

111-111-1111

33 Oak St

123 Astros

123 Twins

123 Flamenco

Yorktown

Houston

Minnesota

Valladolid

Postal Code

Country

11111

11111

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SPAIN

US

US

UK

US

US

NORWAY

US

US

US

USA

US

US



SPAIN

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Appointments

+ Add

 Modify Delete Search

Search by customer name

Customer Name	Appointment Type	Location Details	Appointment Start	Appointment End
Paul Molitor	In-Person	at the office	07/04/2019 09:00 AM	07/04/2019 10:00 AM
Rickey Henderson	Phone	111-111-1111	07/04/2019 10:00 AM	07/04/2019 11:00 AM
Jose Canseco	Phone	111-111-1111	07/04/2019 11:00 AM	07/04/2019 12:00 PM
Eric Davis	Phone	555-555-5555	07/05/2019 08:00 AM	07/05/2019 09:00 AM
Eric Davis	WebMeeting	Home office	07/05/2019 09:00 AM	07/05/2019 10:00 AM
Darryl Strawberry	Phone	111-111-1111	07/05/2019 10:00 AM	07/05/2019 11:00 AM
Nolan Ryan	WebMeeting	skype meeting nolan_ryan	07/05/2019 11:00 AM	07/05/2019 12:00 PM
Alex Verdugo	Phone	111-111-1111	07/05/2019 02:00 PM	07/05/2019 03:00 PM
Barry Bonds	In-Person	at the office	07/05/2019 03:00 PM	07/05/2019 04:00 PM
Lou Gehrig	WebMeeting	skype meeting lou_gehrig	07/08/2019 09:00 AM	07/08/2019 10:00 AM
Ken Griffey Jr	WebMeeting	skype meeting ken_griffey	07/08/2019 02:00 PM	07/08/2019 03:00 PM
James Bond	In-Person	at office	07/16/2019 03:00 PM	07/16/2019 04:00 PM
Jose Canseco	In-Person	at office	07/17/2019 02:00 PM	07/17/2019 03:00 PM
Paul Molitor	In-Person	at the office	07/23/2019 09:00 AM	07/23/2019 10:00 AM
Babe Ruth	In-Person	at office	07/31/2019 09:00 AM	07/31/2019 10:00 AM
Barry Bonds	In-Person	at office	08/01/2019 08:00 AM	08/01/2019 09:00 AM
Ronald M Macdonald	Phone	Updates	08/08/2019 01:00 PM	08/08/2019 02:00 PM
Ty Cobb	In-Person	at office	09/02/2019 09:00 AM	09/02/2019 10:00 AM



Appointments

Add Appointment

Customer Name

Jose Canseco

Appointment Type

In-Person

Location Details

at the office

Select Date then Time

07/18/2019

Available Times (PT)

8:00 AM

9:00 AM

10:00 AM

11:00 AM

1:00 PM

2:00 PM

3:00 PM

4:00 PM

Cancel

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Calendar

July 2019

[+ Week View](#)

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



Calendar

July 2019

[+ Week View](#)

Sunday				Thursday	Friday	Saturday
				4 3 Appointments	5 6 Appointments	6
7	2 Appointments			11	12	13
14		15	16 1 Appointment	18	19	20
21		22	23 1 Appointment	24	25	26
28		29	30	31 1 Appointment		

Appointments

3 Appointments Scheduled (PT) ?

9:00 AM
10:00 AM
11:00 AM

Cancel OK

Reports

[illegible]