

CSIS 3275-001

Term Project Presentation

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Agenda



Project Overview

Demo

Tests

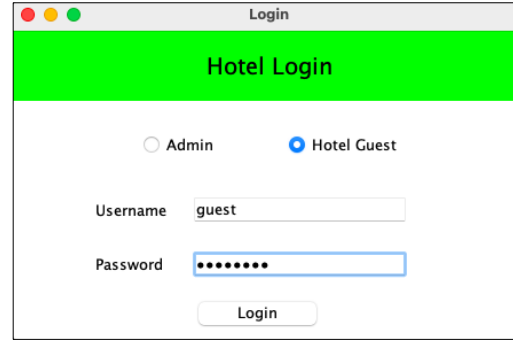
Architecture

Approaches and Components

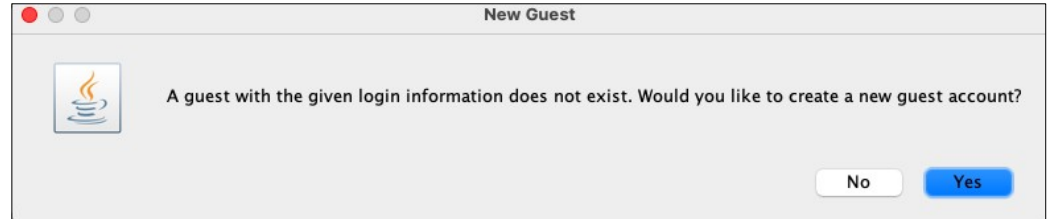
Lessons Learned

Program Demo - Guest

- Create New Guest account
- Login As Guest



A screenshot of a 'Login' window titled 'Hotel Login'. It features a green header bar. Below the header, there are two radio buttons: 'Admin' (unselected) and 'Hotel Guest' (selected). Below the radio buttons, there are two input fields: 'Username' with the text 'guest' and 'Password' with masked characters '••••••'. At the bottom right, there is a 'Login' button.

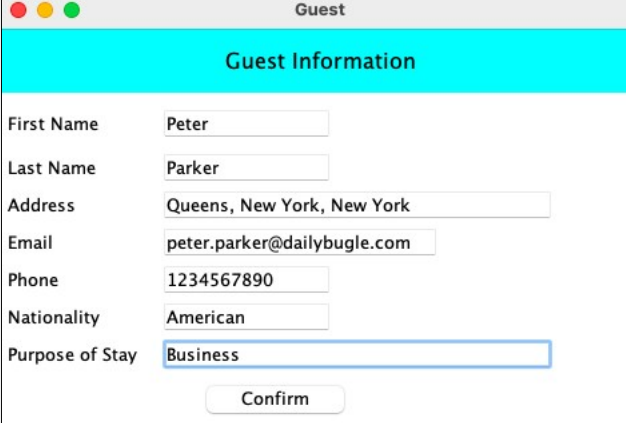


A screenshot of a 'New Guest' dialog box. It contains a Java logo icon on the left. The text in the center reads: 'A guest with the given login information does not exist. Would you like to create a new guest account?'. At the bottom right, there are two buttons: 'No' and 'Yes'.



A screenshot of a 'New Guest created!' dialog box. It contains a Java logo icon on the left. The text on the right reads: 'Username: guest' and 'Password: guest123'. At the bottom right, there is an 'OK' button.

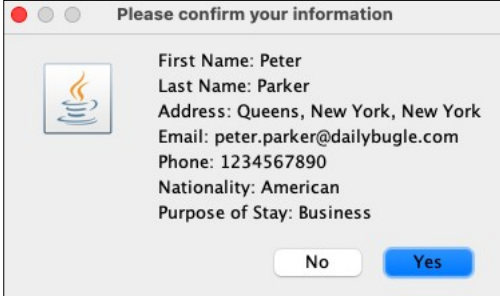
Program Demo - Guest




A screenshot of a web application window titled "Guest". The window has a light blue header bar with the text "Guest Information". Below the header, there are several input fields for guest information. The fields are labeled "First Name", "Last Name", "Address", "Email", "Phone", "Nationality", and "Purpose of Stay". Each field contains a value: "Peter", "Parker", "Queens, New York, New York", "peter.parker@dailybugle.com", "1234567890", "American", and "Business" respectively. At the bottom right of the form is a "Confirm" button.

Guest Information	
First Name	Peter
Last Name	Parker
Address	Queens, New York, New York
Email	peter.parker@dailybugle.com
Phone	1234567890
Nationality	American
Purpose of Stay	Business
<input type="button" value="Confirm"/>	

- Add Guest information
- Verify the details entered



A screenshot of a confirmation dialog box titled "Please confirm your information". The dialog box has a light gray background and a small icon of a coffee cup on the left. On the right, the guest information is listed: "First Name: Peter", "Last Name: Parker", "Address: Queens, New York, New York", "Email: peter.parker@dailybugle.com", "Phone: 1234567890", "Nationality: American", and "Purpose of Stay: Business". At the bottom right, there are two buttons: "No" and "Yes".

Please confirm your information	
	First Name: Peter Last Name: Parker Address: Queens, New York, New York Email: peter.parker@dailybugle.com Phone: 1234567890 Nationality: American Purpose of Stay: Business
<input type="button" value="No"/> <input type="button" value="Yes"/>	

Program Demo - Guest

- Add Booking Information
- Verify the details entered
- Reservation created

Guest

Guest Information

First Name

Peter

Last Name

Parker

Address

Queens, New York, New York

Email

peter.parker@dailybugle.com

Phone

1234567890

Nationality

American

Purpose of Stay

Business

Confirm

Guest Booking

Number of Persons

1

Room Type

Standard

Room Number

14

Check-In Date

Apr 2, 2021

Check-Out Date

Apr 3, 2021

☒ Lunch and Dinner (** Breakfast complimentary **)

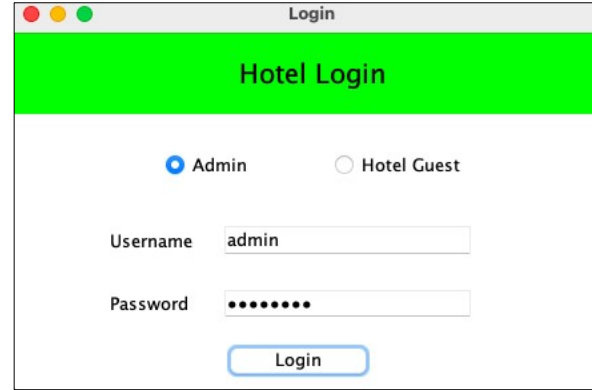
Additional Accommodation

Extra Pillows

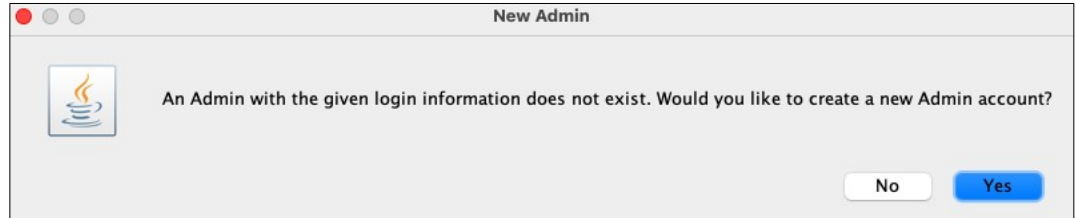
Book Room

Program Demo - Admin

- Create New Admin account
- Login As Guest



A screenshot of a web application window titled "Login". The window has a green header bar with the text "Hotel Login". Below the header, there are two radio buttons: "Admin" (selected) and "Hotel Guest". Underneath, there are two input fields: "Username" with the value "admin" and "Password" with masked characters "••••••". At the bottom, there is a blue "Login" button.



A screenshot of a dialog box titled "New Admin". On the left, there is an icon of a coffee cup with steam. To the right of the icon, the text reads: "An Admin with the given login information does not exist. Would you like to create a new Admin account?". At the bottom right, there are two buttons: "No" and "Yes".

Program Demo - Admin

- Fill out Admin Info
- Login As Admin



A screenshot of a web application window titled "Admin". The window has a cyan header bar with the text "Admin Information". Below the header, the form is divided into two sections. The first section, "Admin Information", contains fields for First Name (Steve), Last Name (Rogers), Address (Brooklyn, New York, New York), Phone (1231231234), and Email (steve.rogers@shield.com). The second section, "Login Information", contains fields for Username (admin), Password (masked with dots), and Confirm Password (masked with dots). A "Confirm" button is located at the bottom right of the form.

Admin Information	
First Name	Steve
Last Name	Rogers
Address	Brooklyn, New York, New York
Phone	1231231234
Email	steve.rogers@shield.com
Login Information	
Username	admin
Password	••••••••
Confirm Password	••••••••
<button>Confirm</button>	

Program Demo - Admin

- Can perform operations –
 - Search
 - Edit
 - Delete
 - Update
 - Create New

The screenshot displays the 'Admin Portal' interface. At the top, there's a 'Search Criteria' section with a text input field, a dropdown menu set to 'None', and a 'Search' button. Below this is a table with columns: 'firstname', 'lastname', 'email', and 'phone'. The first row contains the data: 'Peter', 'Parker', 'peter.parker@dai...', and '1234567890'. To the right of the table are three buttons: 'Edit Info' (highlighted with a blue border), 'Delete Guest', and 'New Guest'. Below the table is the 'Guest Info' section, which includes fields for 'First Name' (Peter), 'Last Name' (Parker), 'Phone' (1234567890), 'Email' (er@dailybugle.com), 'Nationality' (American), 'Purpose Of Stay' (Business), and 'Address' (Queens, New York, New York). The 'Guest Booking Information' section includes 'Number Of Persons' (1), 'Room Type' (Standard), 'Room Number' (100), 'Check In Date', 'Check Out Date', and a checkbox for 'Lunch & Dinner'. The 'Additional Accommodation' section has a text area for 'Extra Pillows' and a 'Confirm' button.

firstname	lastname	email	phone
Peter	Parker	peter.parker@dai...	1234567890

Guest Info

First Name: Peter Phone: 1234567890 Nationality: American

Last Name: Parker Email: er@dailybugle.com Purpose Of Stay: Business

Address: Queens, New York, New York

Guest Booking Information

Number Of Persons: 1 Room Type: Standard Room Number: 100

Check In Date: [calendar icon] Check Out Date: [calendar icon] ☐ Lunch & Dinner

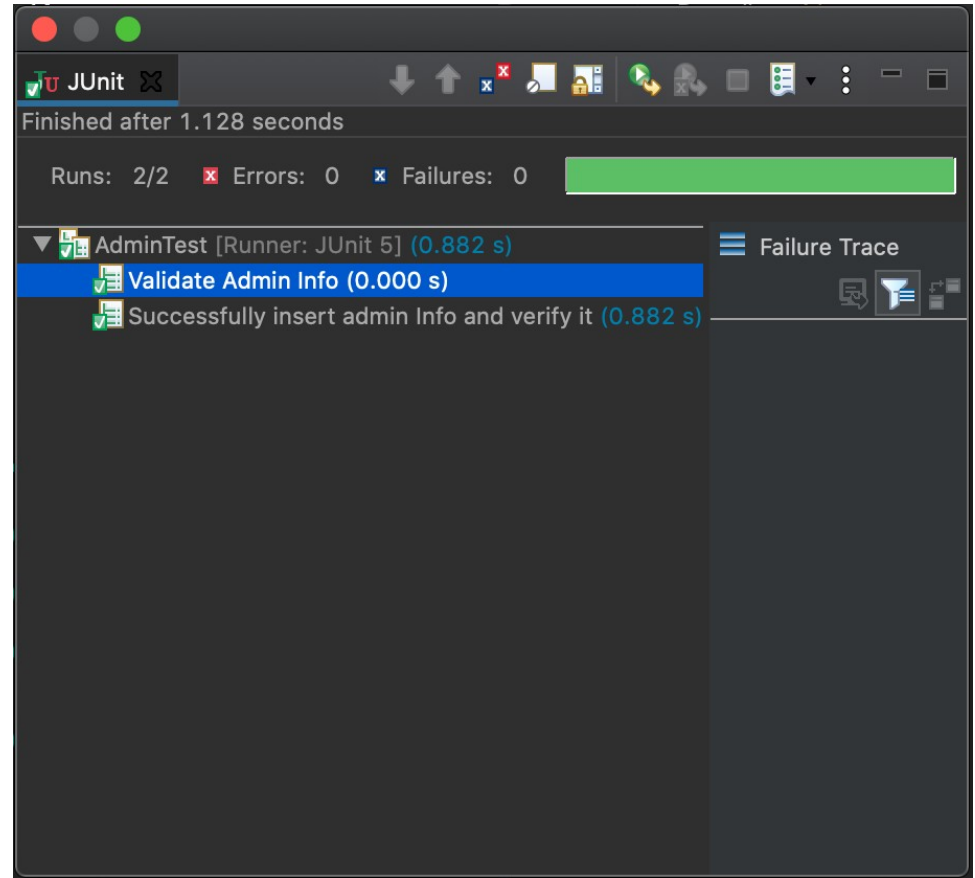
Additional Accommodation

Extra Pillows: [text area]

Confirm

Tests - AdminTest

- Validate Admin Info
 - firstname, lastname
 - address, email
 - phone
- Successfully insert admin info and verify it
 - Intreaction with admindb



Tests - GuestTest

- Validate Guest Info
 - firstname, lastname
 - address, email
 - Phone, nationality
 - Purpose of stay
- Validate Booking Info
 - No. of persons
 - Check in and Out dates
 - Room type and number
 - Additional information

```
JUnit
Finished after 1.109 seconds

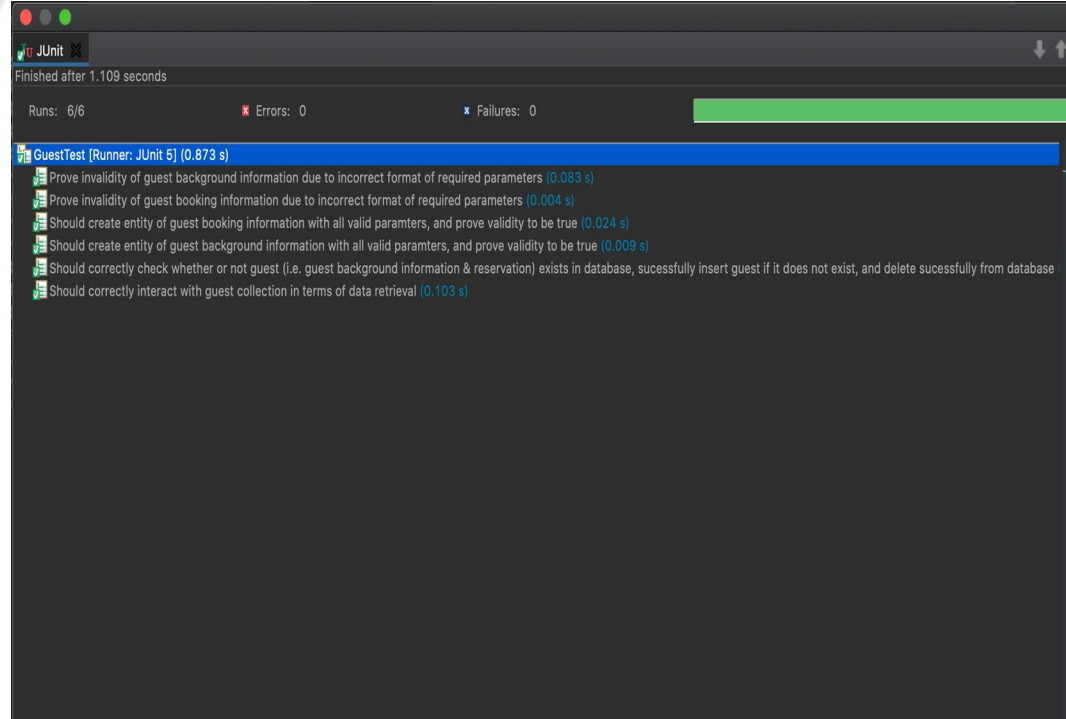
Runs: 6/6      Errors: 0      Failures: 0

GuestTest (Runner: JUnit 5) (0.873 s)
  ✓ Prove invalidity of guest background information due to incorrect format of required parameters (0.083 s)
  ✓ Prove invalidity of guest booking information due to incorrect format of required parameters (0.004 s)
  ✓ Should create entity of guest booking information with all valid paramters, and prove validity to be true (0.024 s)
  ✓ Should create entity of guest background information with all valid paramters, and prove validity to be true (0.009 s)
  ✓ Should correctly interact with guest collection in terms of data retrieval (0.103 s)
```

Continued....

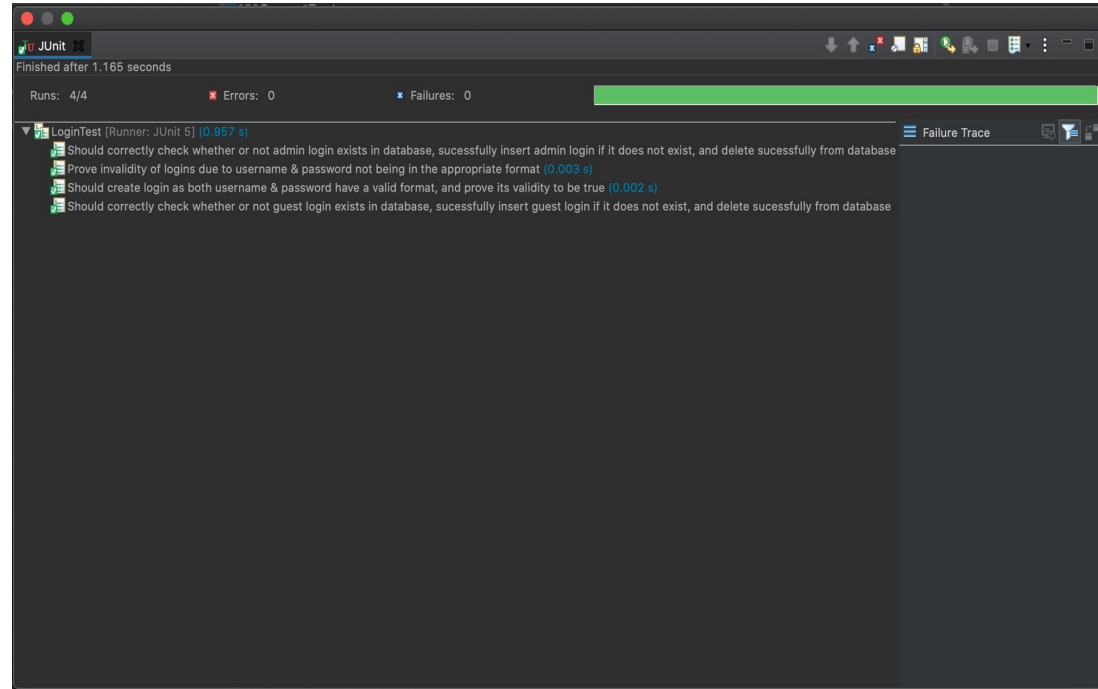
Tests - GuestTest

- Successfully insert guest info and verify it
 - Intreaction with Guest db
 - Retrival of Data from Guestdb
 - Valid Addition of Data into Guestdb

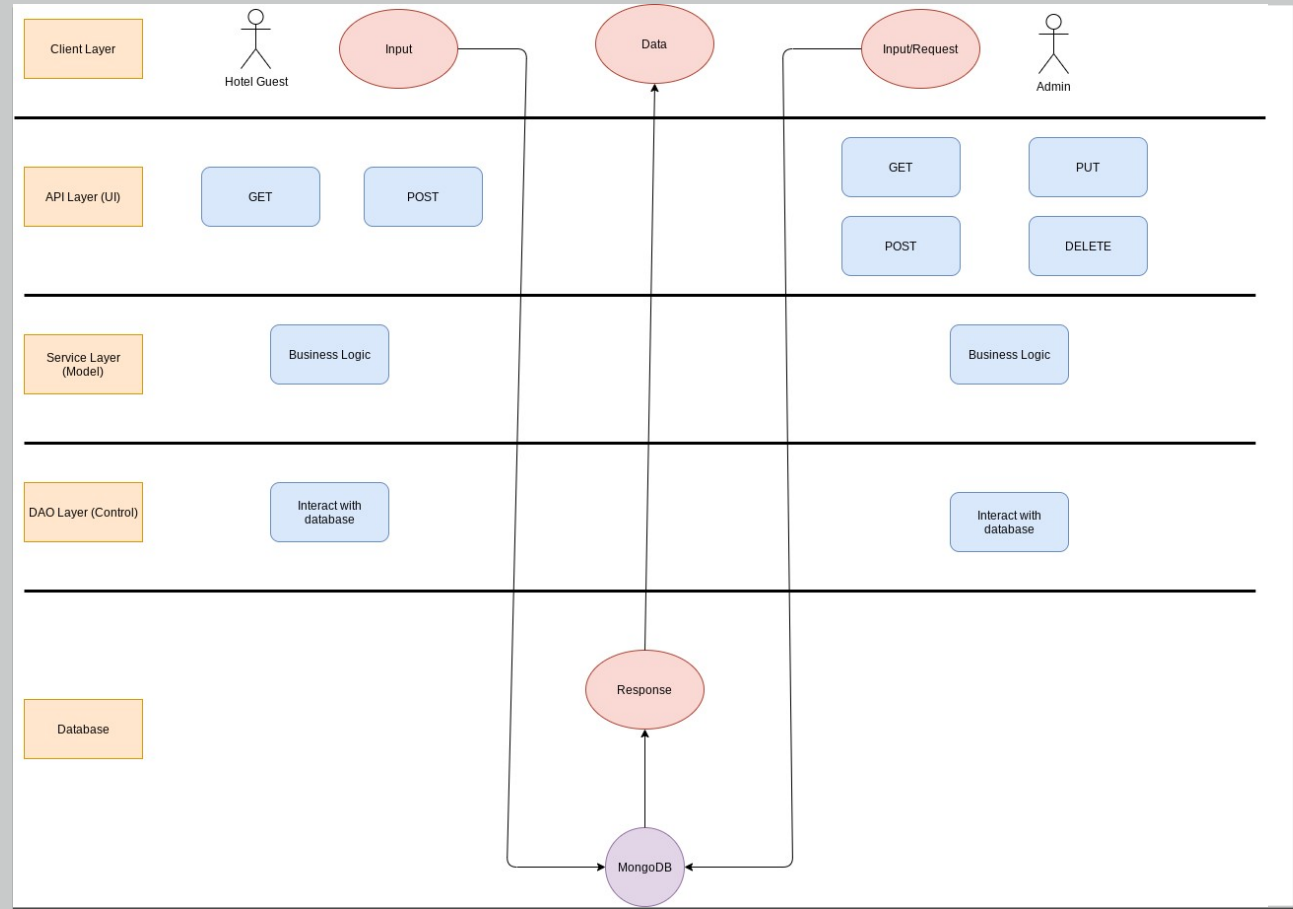


Tests – Login Test

- Correctly check whether a user exists in database
 - For guest
 - For admin
- Invalidity check for wrong username and password
- Correct approach of a user creation
 - For admin
 - For guest



System Architecture



Approaches and components

- Language: Java
- Version Control Software: Git
- Software: Eclipse
- Database tools: MongoDB
- Application structure & approach: MVC
- Framework: Java Swing, JFrame
- GUI Designer: WindowBuilder
- Plugins:
 - JCalender
 - Mongo Java Driver
- Testing: JUnit 5 (Jupiter)

Lessons learned regarding technical and project management



Choose a database that would be better suited and integrated with the IDE and language



Make sure everyone has the same IDE version and dependencies



Maintain a constant flow of conversation so that everyone is aware of each other's progress



Follow a unified approach and coding style



Improvement in constructing easily-decipherable code and providing documentation



Improving debugging skills (i.e. software deconstruction/destruction)



Planning and scheduling

Lessons for future projects

Instead of using Java Swing (which is very old), we would take the time to learn JavaFX to utilize in a similar project

Improve Git and GitHub skills to maintain a simultaneous project workflow

Planning and anticipating for development roadblocks in order to stay-on-course with project development schedule

Communicate if you hit a roadblock and reach out for help

Maintaining a good team environment

Conceiving a project that also takes on a test-driven approach

Thank you

Any Questions ?