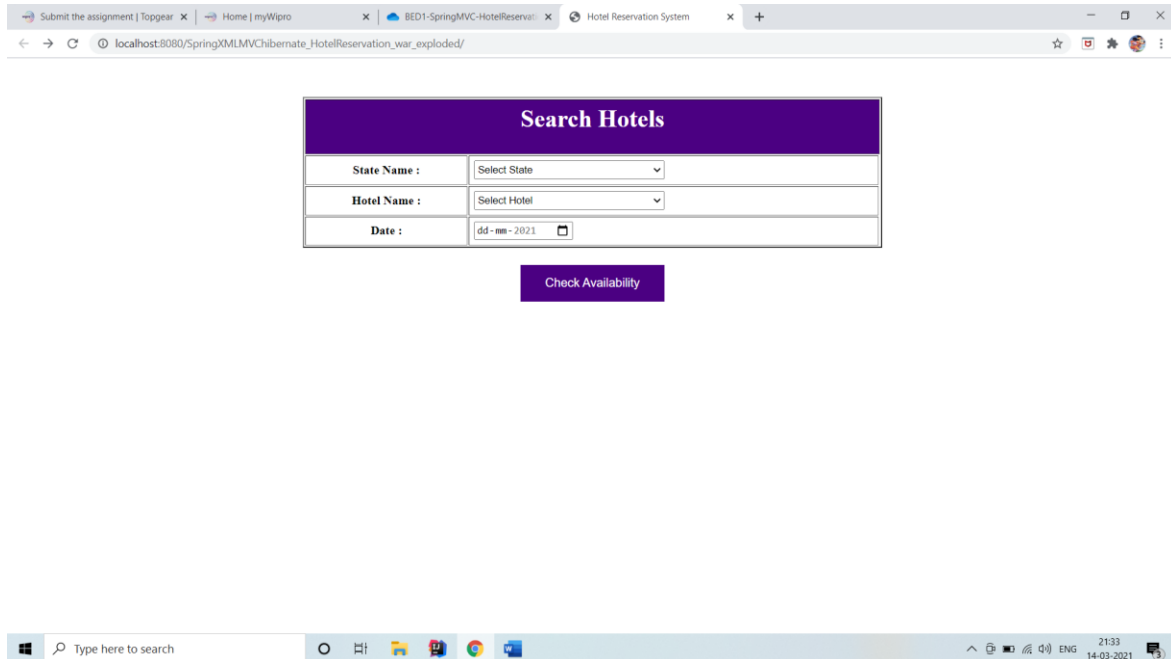


Hotel Reservation Webapp using Spring MVC

Front end

1. Welcome page

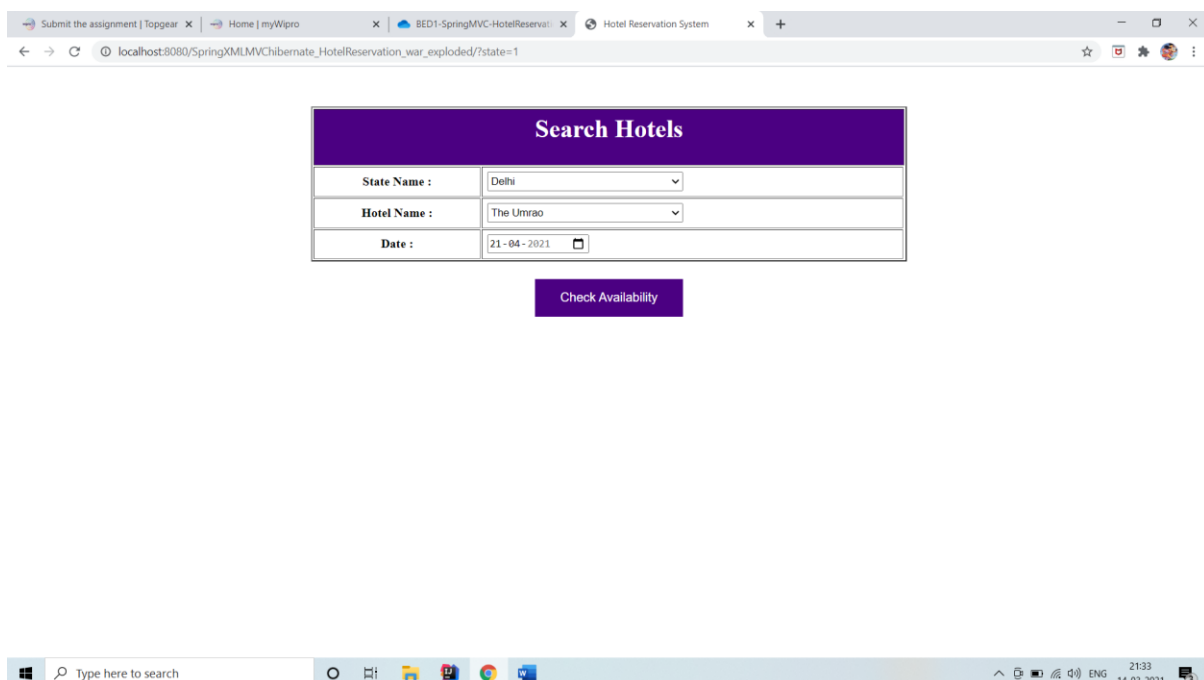
- Has dependent dropdown. When user selects a state, hotels are auto populated with the records fetched from the database



The screenshot shows a web browser window with the URL `localhost:8080/SpringXMLMVChibernate_HotelReservation_war_explored/`. The page displays a form titled "Search Hotels" with a purple header. The form contains three input fields: "State Name" with a dropdown menu showing "Select State", "Hotel Name" with a dropdown menu showing "Select Hotel", and "Date" with a date picker showing "dd-mm-2021". Below the form is a purple button labeled "Check Availability".

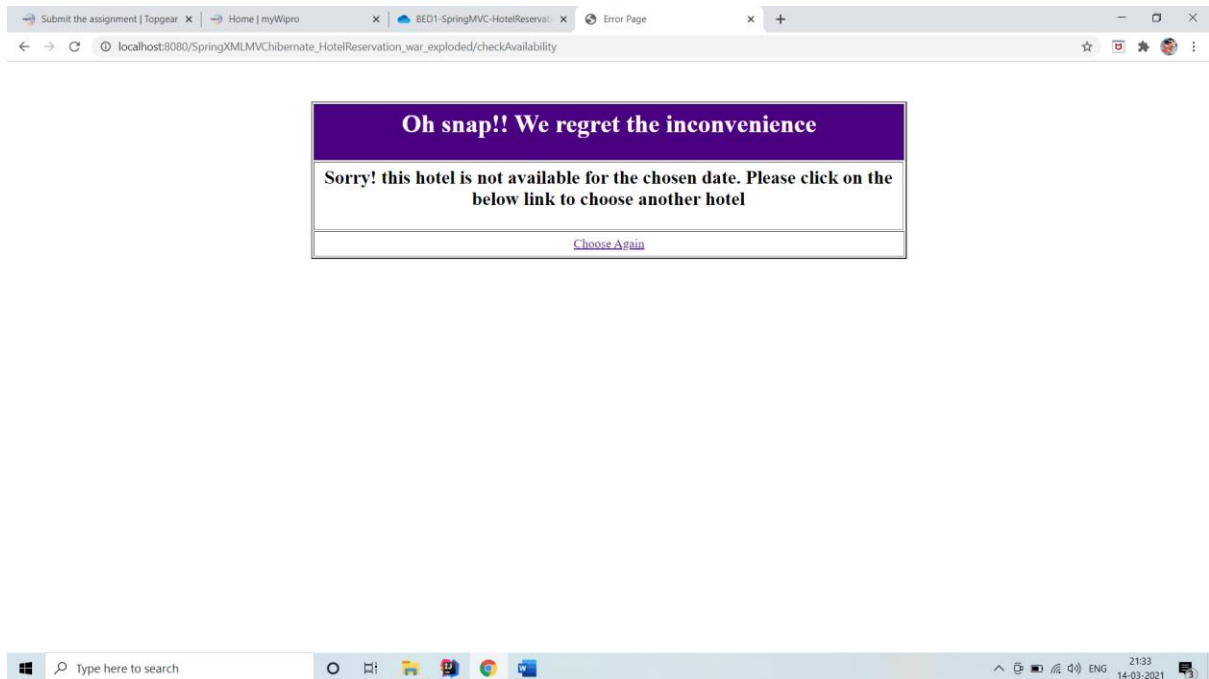
2. Once user enters the values and submits the form, the backend has to check if that particular hotel is available or not

- Logic : `hotel_status == 1` for available and `hotel_status == 0` for unavailable

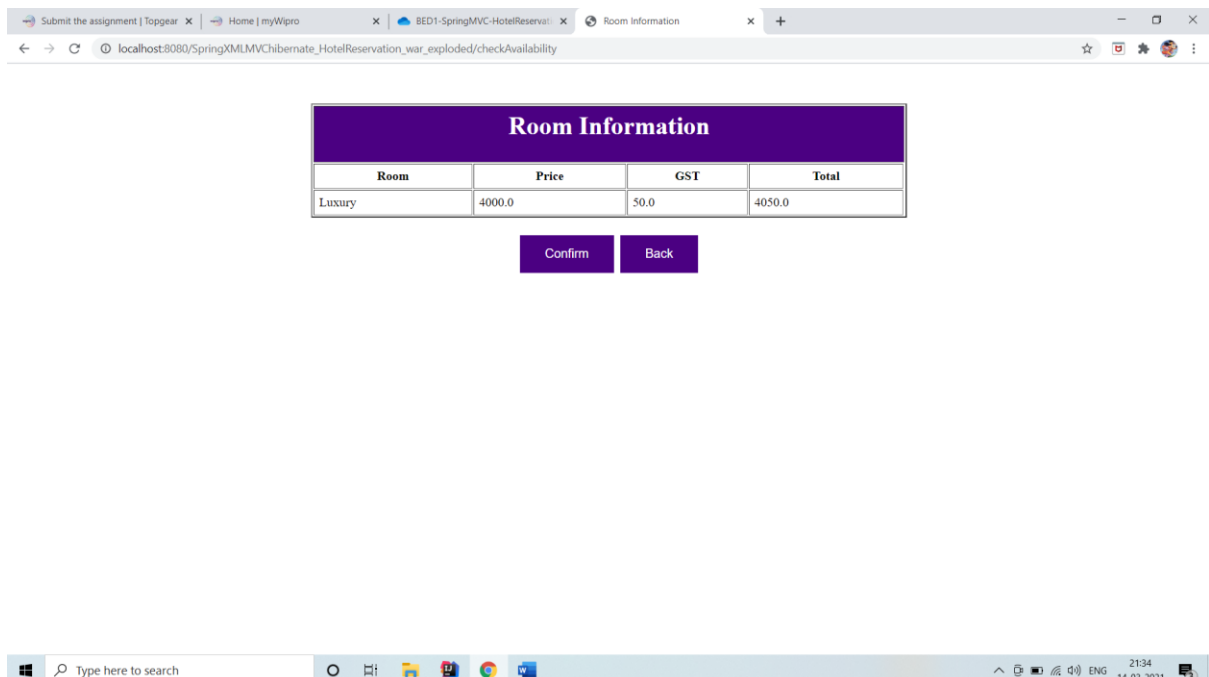


The screenshot shows the same web browser window as before, but the form fields are now populated with user input. The "State Name" dropdown is set to "Delhi", the "Hotel Name" dropdown is set to "The Umrao", and the "Date" date picker is set to "21-04-2021". The "Check Availability" button remains below the form.

3. If the hotel is not available, the control is passed to the “not available” page that has the option to navigate to the previous page and select the hotel again



4. If the hotel is available, the back end has to check for the room information of that particular hotel and provide it to the user. Based on the information provided, user can choose to make a reservation or not



5. If the user, choose to confirm the reservation to that hotel, then the registration form is appeared and all fields are mandatory

Reservation Form

Guest Name :	Srishti Sharma
Gender :	Female
Age :	22
Email ID :	msrshisharma@gmail.co
Mobile Number :	07011439830

Reserve

6. Last step as mentioned was to show the name of the user and the hotel to another page (let's say confirmation page)

Confirmation Success

Dear Srishti Sharma , thank you for choosing Radisson Blu Hotel .
It is our pleasure to confirm your reservation.

Backend

1. Database :: hotel_reservation

Tables:

1. State (PK : stateID)
2. Hotel (PK: hotel ID, FK: stateID)
3. Hotel_information (PK: roomID, FK: hotelID)

The screenshot shows the MySQL Workbench interface. On the left, the 'Recent' and 'Favorites' panes show the 'demo' database with a 'hms' schema containing 'hotel_reservation'. The main pane shows the 'Structure' tab for the 'hotel_reservation' database. It lists four tables: 'hibernate_sequence', 'hotel', 'hotel_information', and 'state'. The 'state' table is highlighted. Below the table list, a summary row shows '4 tables' with a 'Sum' of 31 rows, 81.0 KiB size, and 0.8 overhead.

Table	Action	Rows	Type	Collation	Size	Overhead
hibernate_sequence	Browse Structure Search Insert Empty Drop	1	MyISAM	utf8mb4_general_ci	1.0 KiB	-
hotel	Browse Structure Search Insert Empty Drop	13	InnoDB	utf8mb4_general_ci	32.0 KiB	-
hotel_information	Browse Structure Search Insert Empty Drop	12	InnoDB	utf8mb4_general_ci	32.0 KiB	-
state	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
4 tables	Sum	31	InnoDB	utf8mb4_general_ci	81.0 KiB	0.8

2. Table :: State (primary key = "id")

✓ Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.) [id: 1... - 5...]

```
SELECT * FROM `state` ORDER BY `state`.`id` ASC
```

☐ Show all | Number of rows: 25 ▼ Filter rows: Search this tab

+ Options

	id	state_name
<input type="checkbox"/> Edit Copy Delete	1	Delhi
<input type="checkbox"/> Edit Copy Delete	2	Uttarakhand
<input type="checkbox"/> Edit Copy Delete	3	Manali
<input type="checkbox"/> Edit Copy Delete	4	Chennai
<input type="checkbox"/> Edit Copy Delete	5	Hyderabad

3. Table : Hotel (Primary key : hotel_id) (Foreign key: state_id)
 Hotel_status {hotel availability == 1} {hotel unavailability == 0}

✓ Showing rows 0 - 12 (13 total, Query took 0.0005 seconds.)

```
SELECT * FROM `hotel`
```

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	hotel_id	state_name	hotel_name	hotel_status	state_id
<input type="checkbox"/> Edit Copy Delete	1	Delhi	The Umrao	0	1
<input type="checkbox"/> Edit Copy Delete	2	Delhi	Radisson Blu Hotel	1	1
<input type="checkbox"/> Edit Copy Delete	3	Delhi	Le Méridien	0	1
<input type="checkbox"/> Edit Copy Delete	4	Uttarakhand	Jungle Lore Birding Hotel Resort Nainital	1	2
<input type="checkbox"/> Edit Copy Delete	5	Uttarakhand	The Cocoon Camps & Nature Resorts	0	2
<input type="checkbox"/> Edit Copy Delete	6	Uttarakhand	Hotel Aranya Virasat	0	2
<input type="checkbox"/> Edit Copy Delete	7	Manali	Himalayan Heights	1	3
<input type="checkbox"/> Edit Copy Delete	8	Manali	Sun Park Resort	0	3
<input type="checkbox"/> Edit Copy Delete	9	Manali	Himalayan Heights Manali	0	3
<input type="checkbox"/> Edit Copy Delete	10	Chennai	ITC Grand Chola	1	4
<input type="checkbox"/> Edit Copy Delete	11	Chennai	The Park Chennai	0	4
<input type="checkbox"/> Edit Copy Delete	12	Hyderabad	Red Fox Hotel	1	5
<input type="checkbox"/> Edit Copy Delete	13	Hyderabad	The Peerless Inn	0	5

4. Table : hotel_information (Primary key : room_id) (Foreign key: hotel_id)

✓ Showing rows 0 - 11 (12 total, Query took 0.0005 seconds.)

```
SELECT * FROM `hotel_information`
```

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort b

Options

	hotel_id	room_id	room_type	price	gst	total
<input type="checkbox"/> Edit Copy Delete	1	1	Luxury	5000	50	5050
<input type="checkbox"/> Edit Copy Delete	2	3	Luxury	4000	50	4050
<input type="checkbox"/> Edit Copy Delete	3	5	Luxury	5000	50	5050
<input type="checkbox"/> Edit Copy Delete	4	7	Luxury	5000	50	5050
<input type="checkbox"/> Edit Copy Delete	5	9	Luxury	5000	50	5050
<input type="checkbox"/> Edit Copy Delete	6	10	Suite	6000	80	6080
<input type="checkbox"/> Edit Copy Delete	7	11	Luxury	4000	50	4050
<input type="checkbox"/> Edit Copy Delete	9	13	Luxury	4000	50	4050
<input type="checkbox"/> Edit Copy Delete	10	14	Suite	8000	60	8060
<input type="checkbox"/> Edit Copy Delete	11	15	Luxury	4000	50	4050
<input type="checkbox"/> Edit Copy Delete	12	16	Suite	6000	60	6060
<input type="checkbox"/> Edit Copy Delete	13	17	Luxury	4000	50	4050