

# Module 2 Capstone - Excelsior Venues

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Congratulations! Word has gotten out that you know your way around the complexities of the catering and event planning industry, and that you can create amazing software products to help companies make more money in less time. Due to your phenomenal success with the catering system, Excelsior Venues, a company that rents unique space for events, has decided to have your team build a new venue reservation system.

Below are the features and requirements Excelsior Venues is looking for you and your team to complete:

1. **(MVP)** As a user of the system, I need the ability to view a list of all of the unique venues in the system, sorted alphabetically by name.
  - A venue includes an id, name, city, state, description, and category. A venue *may have many* categories.
2. **(MVP)** As a user of the system, I need the ability to select a venue that my customer would like to host an event at and see a list of all spaces for the venue.
  - A space includes an id, name, open month, closing month, maximum occupancy, wheelchair accessibility, and a daily rate.
  - A space may be blocked out for various months during the year. For instance, if the space is outdoors or is generally closed for repairs and maintenance during specific months, this will be represented with the open month and closing month.
  - If the open month and closing month do not have any dates, there are not any availability restrictions based on the month.
3. **(MVP)** As a user of the system, I need the ability to select a space and search for availability so I can reserve the space.
  - A reservation search only requires the desired space, a start date, and an end date.
  - A space is unavailable if any part of their preferred date range overlaps with an existing reservation.
  - If no spaces are available, indicate to the user that there are no available spaces and ask them if they would like to try a different search. If they answer yes, restart the search dialog.
  - The TOP 5 spaces should be displayed along with the cost for the total reservation.
  - **(Non-MVP):** If a date range is entered that occurs when the space is closed, then the space should not be listed in the available spaces.
  - **(Non-MVP):** Provide advanced search functionality that allows users to indicate requirements they have based on accessibility needs, a category, and a daily budget.
4. **(MVP)** As a user of the system, once I find a space that is available based on my needs, I am able to book a reservation for the space.
  - A space requires the name of the person or group reserving the space, a start date, and an end date.
  - A confirmation id is presented to the user once the reservation has been added to the system.
5. **(Non-MVP)** As a user of the system, I want the ability to search for available spaces across all venues based on my needs so I can make a reservation.
  - Up to 5 spaces for each venue should be displayed if they have availability.
  - The same rules apply as the space search.
6. **(Non-MVP)** As a user of the system, I would like the ability to see a list of all upcoming reservations within the next 30 days for a selected venue.

## Sample Screens

### MVP: Main Menu

What would you like to do?

- 1) List Venues
- Q) Quit

### MVP: View Venues

Which venue would you like to view?

- 1) Hidden Owl Eatery
- 2) Painted Squirrel Club
- 3) Rusty Farmer Spot
- 4) ...
- R) Return to Previous Screen

### MVP: Venue Details

Runaway Time Emporium  
Location: Andoshire, PA  
Categories: Modern

The perfect office space for those trying to get that next big project done.  
Plenty of office supplies available and a lightning fast wifi network.

What would you like to do next?

- 1) View Spaces
- 2) Search fo Reservation
- R) Return to Previous Screen

### MVP: List Venue Spaces

Runaway Time Emporium Spaces

	Name	Open	Close	Daily Rate	Max. Occupancy
#1	Prepare	Apr.	Aug.	\$2850.00	190
#2	Work it Out	Jan.	Jun.	\$4400.00	220
#3	Brainstorm			\$3000.00	200
#4	Get Work Done	Jul.	Dec.	\$4800.00	160
#5	Deliver Status			\$4400.00	220
#6	Waste Time			\$6900.00	230
#7	Creative Thinking			\$900.00	30

What would you like to do next?

- 1) Reserve a Space
- R) Return to Previous Screen

## MVP: Reserve a Space

When do you need the space? 9/29/2019  
How many days will you need the space? 5  
How many people will be in attendance? 100

The following spaces are available based on your needs:

Space #	Name	Daily Rate	Max Occup.	Accessible?	Total Cost
111	The Rotunda	\$350	100	Yes	\$1,750
333	The Golden Walrus	\$900	150	No	\$4,500

Which space would you like to reserve (enter 0 to cancel)? 111  
Who is this reservation for? Happy Madison

Thanks for submitting your reservation! The details for your event are listed below:

Confirmation #: 98783478  
Venue: Trapp Family Lodge  
Space: The Rotunda  
Reserved For: Happy Madison  
Attendees: 100  
Arrival Date: 9/29/2019  
Depart Date: 10/3/2019  
Total Cost: \$1,750

## Non-MVP: Advanced Venue Search

The Search for a Space menu option only needs to be added to the main menu if the requirement is completed. If the Display Reservations requirement has also be completed then both will be on the menu.

What would you like to do?

- 1) List Venues
- S) Search for a Space
- Q) Quit

S

When do you need the space? 10/15/2019  
How many days will you need the space? 2  
How many people will be in attendance? 100  
Does the space require accessibility accommodations (Y/N)? Y  
What is your daily budget for the event? 300

Which of the categories would you like to include?  
1) Family Friendly

- 2) Outdoors
- 3) Historic
- 4) Rustic
- N) None

N

The following venues and spaces are available based on your needs:

#### Mountain View Grand Resort & Spa

Space #	Name	Daily Rate	Max Occup.	Accessible?	Total Cost
342	Snow Globe Room	\$295	100	Yes	\$590
783	Shire Glen	\$175	200	Yes	\$400

#### Gasparilla Inn & Club

Space #	Name	Daily Rate	Max Occup.	Accessible?	Total Cost
912	Racquet Room	\$700	125	Yes	\$1,400

Which space would you like to reserve (enter 0 to cancel)? 783

Who is this reservation for? Happy Madison

Thanks for submitting your reservation! The details for your event are listed below:

Confirmation #: 78783492

Venue: Mountain View Grand Resort & Spa

Space: Racquet Room

Reserved For: Happy Madison

Attendees: 100

Arrival Date: 10/15/2019

Depart Date: 10/16/2019

Total Cost: \$400

## Non-MVP: Display Reservations

The Display Reservations menu option only needs to be added to the main menu if the requirement is completed. If the Search for a Reservation requirement has also be completed then both will be on the menu.

What would you like to do?

- 1) List Venues
- D) Display Reservations
- Q) Quit

D

The following reservations are coming up in the next 30 days:

Venue	Space	Reserved For	From	To
Trapp Family Lodge 10/3/2019	The Rotunda	Happy Madison	9/29/2019	

Mountain View Grand Resort & Spa   Racquet Room   Happy Madison   10/15/2019  
10/16/2019

## Table Structure

Your application will have access to a relational database with the following tables. Venues, spaces, and categories will be seeded with data.

### Venue

Constraint	Name	Description
PK	id	Primary auto incrementing id.
	name	The venue name.
FK	city_id	References the id from the city table.
	description	The description of the venue.

### Space

Constraint	Name	Description
PK	id	Primary auto incrementing id.
FK	venue_id	References the id from the venue table.
	name	The name of the space.
	is_accessible	Whether or not this space is handicap accessible.
	open_from	The month of the year this space is available from. If null, then it is always open.
	open_to	The month of the year this space is available until. If null, then it is never closed.
	daily_rate	The daily cost for renting the space.
	max_occupancy	The maximum number of people that the space is able to safely support.

### City

Constraint	Name	Description
PK	id	Primary auto incrementing id.
	name	The name of the city.
FK	state_abbreviation	References the abbreviation from the state table.

### State

Constraint	Name	Description
PK	abbreviation	The 2 character abbreviation for the state
	name	The name of the state.

## Category

Constraint	Name	Description
PK	id	Primary auto incrementing id.
	name	The name of the category.

## Category\_Venue

The associative entity used to specify the categories associated with a venue. A venue may not have any categories, or it could have many categories.

Constraint	Name	Description
PK, FK	venue_id	References the id from the venues table.
PK, FK	category_id	References the id from the categories table.

## Reservation

All of the reservations for spaces.

Constraint	Name	Description
PK	id	Primary auto incrementing id. This can be used for displaying the confirmation number.
FK	space_id	The id of the space that has been reserved.
	number_of_attendees	The number of people that will be attending the event.
	start_date	The date the space will first be needed on.
	end_date	The last date the space will be needed on.
	reserved_for	The name of the person or organization this reservation is for.