

Room Scheduler

Working Demo of the 'Room Scheduler' console driven application

Objective:

- Allow users to create rooms and schedule a meeting using that room.

Features:

- Add a room with max accommodation capacity
- Remove and view the created room info
- Schedule room and view the scheduled room info
- Export room info so that it can be later imported (since this does not use db. to store values we use this one. GSON is used here)
- Import room info from recently exported room information (GSON is used here.)

Project Repo Location: <https://github.com/vivekVells/MSCS721-roomScheduler>

Vivek Vellaiyappan Surulimuthu

File last updated: Feb 18th 2018

- Executing the program:
 - Type the followings (running the program in a particular path matters)
 - \$ **java -jar src/resources/files/roomExportedFiles/exportedRoomScheduler.jar** - if you are in the created folder or move into all the way to roomExportedFiles folder and then try **java -jar exportedRoomScheduler.jar**

```
vivek-pc@kev MINGW64 /e/Marist/Semester2/SoftwareVerificationAndMaintenance/RoomScheduler (master)  
$ java -jar src/resources/files/roomExportedFiles/exportedRoomScheduler.jar
```

Room Scheduler Home Page

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 14:02:13

Main Menu:
1 - Add a room
2 - Remove a room
3 - List Rooms
4 - Schedule a room
5 - List Schedule
6 - Import Room Schedule
7 - Export Room Schedule
8 - Quit
Enter your selection:
```

Add Room Home Page

- Press 1 in Room scheduler home page menu and here input room name and capacity

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 14:02:30

ADD ROOM PAGE

Note: Maximum Allowed Room Capacity: 10

Room Name: RoomADD
Room capacity: 5
Room 'RoomADD' is added successfully!

Redirecting to Home Page Menu...
```

View Added Room Information Page

- Press 3 in Room scheduler home page menu and here you may find info about the room

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 14:02:33

ROOM INFORMATION PAGE

5 Room(s) available

1) RoomADD || Capacity: 5
2) JackSparrow'sPrivateRoom || Capacity: 8
3) VivekVellaiyappan'sRoom || Capacity: 10
4) Iavsh'sPartyRoom || Capacity: 9
5) RemoveRoomDemo || Capacity: 2

Redirecting to Home Page Menu...
```

Room Removal Page

- Press 2 in Room scheduler home page menu and here input the room name to remove it (**case sensitive**)

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 14:02:52

ROOM REMOVAL PAGE

Input Room to remove: RemoveRoomDemo
Room removed successfully!

Redirecting to Home Page Menu...
_
```

Schedule Room Page

- Press 4 in Room scheduler home page menu and here input the room name to schedule it (**case sensitive**).

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 14:02:35

ROOM SCHEDULE PAGE

Note:
Refer Today's date time stamp at top left corner and schedule accordingly.
Input of Date should be in "YYYY-mm-dd" - (e-g): 2018-02-28
Input of Time should be in "HH:MM" - (e-g): 10:10 and is in 24 hours format
Start Date should not be before current date and should not be more than 30 days from now
Start and End Time should have minutes such that minutes are of round figures like HH:00 or HH:15 or HH:30 or HH:45
Start and End Time difference should be minimum of 15 minutes and maximum of 60 minutes

Room Name: VivekVellaiyappan'sRoom
Start Date (yyyy-mm-dd): 2018-02-17
Start Time (HH:MM): 02:30
End Time (HH:MM): 03:00
Subject: CodingTime

Successfully scheduled meeting!

Redirecting to Home Page Menu...

```

View Scheduled Room Information Page

- Press 5 in Room scheduler home page menu and here input the room name to view scheduled info about it (**case sensitive**) or 'ALL_ROOMS' to view all the available room's scheduled information. In this page, 'ALL_ROOMS' being inputted.

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 14:02:34

SCHEDULED ROOM INFORMATION PAGE

Note: Input exactly this word to list all room schedules: ALL_ROOMS

Room Name: ALL_ROOMS

RoomADD's Schedule:
No Meetings being scheduled for this room

JackSparrow'sPrivateRoom's Schedule:
1) 2018-02-25 | RobAShipTime: 01:00:00 - 02:00:00

VivekVellaiyappan'sRoom's Schedule:
1) 2018-02-17 | CodingTime: 02:30:00 - 03:00:00
2) 2018-02-20 | FriendsWatch: 05:00:00 - 06:00:00

Iavsh'sPartyRoom's Schedule:
1) 2018-02-27 | PartyTime: 04:00:00 - 04:45:00

Redirecting to Home Page Menu...
```


Scheduled Room Information Page

- Press 5 in Room scheduler home page menu and here input the desired room name to view scheduled info about it (**case sensitive**). Here, ‘VivekVellaiyappan’sRoom’ being inputted

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 14:02:46

SCHEDULED ROOM INFORMATION PAGE

Note: Input exactly this word to list all room schedules: ALL_ROOMS

Room Name: VivekVellaiyappan'sRoom
1) 2018-02-17 | CodingTime: 02:30:00 - 03:00:00
2) 2018-02-20 | FriendsWatch: 05:00:00 - 06:00:00

Redirecting to Home Page Menu...
```

Import and Export Feature Demo -> Export Room Home Page

- After inputting all the desired info like rooms and their schedules, press 7 to export this to json file and use it later to import it.

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 15:02:51

EXPORT ROOM SCHEDULE PAGE

json: [{"name":"RoomADD","capacity":5,"meetings":[]},{ "name":"JackSparrow\u0027sPrivateRoom","capacity":8,"meetings":[{"startDate":"2018-02-25","startTime":"01:00:00","stopTime":"02:00:00","subject":"RobAShipTime"}]},{ "name":"VivekVellaiyappan\u0027sRoom","capacity":10,"meetings":[{"startDate":"2018-02-17","startTime":"02:30:00","stopTime":"03:00:00","subject":"CodingTime"}, {"startDate":"2018-02-20","startTime":"05:00:00","stopTime":"06:00:00","subject":"FriendsWatch"}]},{ "name":"Iavsh\u0027sPartyRoom","capacity":9,"meetings":[{"startDate":"2018-02-27","startTime":"04:00:00","stopTime":"04:45:00","subject":"PartyTime"}]}]

File: allRooms.json was successfully exported.
Location: src\resources\files\roomExportedFiles\allRooms.json

Redirecting to Home Page Menu...
```

Import and Export Feature Demo

- Removed all the rooms available and then cross verified by listing all rooms

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 15:02:14

ROOM INFORMATION PAGE

No rooms available as of now

Redirecting to Home Page Menu...
```

Import and Export Feature Demo -> Import Room Home Page

- After exporting the room info, now press 6 to import those recently exported files

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 15:02:21

IMPORT ROOM SCHEDULE PAGE

"[{"name":"RoomADD","capacity":5,"meetings":[]}, {"name":"JackSparrow\u0027sPrivateRoom","capacity":8,"meetings":[{"startDate":"2018-02-25","startTime":"01:00:00","stopTime":"02:00:00","subject":"RobAShipTime"}]}, {"name":"VivekVellaiyappan\u0027sRoom","capacity":10,"meetings":[{"startDate":"2018-02-17","startTime":"02:30:00","stopTime":"03:00:00","subject":"CodingTime"}, {"startDate":"2018-02-20","startTime":"05:00:00","stopTime":"06:00:00","subject":"FriendsWatch"}]}, {"name":"Iavsh\u0027sPartyRoom","capacity":9,"meetings":[{"startDate":"2018-02-27","startTime":"04:00:00","stopTime":"04:45:00","subject":"PartyTime"}]}]"

File Imported from: src/resources/files/roomExportedFiles/allRooms.json
Imported Room(s) & their Schedule(s):

RoomADD's Schedule:

No Meetings being scheduled for this room

JackSparrow'sPrivateRoom's Schedule:
1) 2018-02-25 | RobAShipTime: 01:00:00 - 02:00:00

VivekVellaiyappan'sRoom's Schedule:
1) 2018-02-17 | CodingTime: 02:30:00 - 03:00:00
2) 2018-02-20 | FriendsWatch: 05:00:00 - 06:00:00

Iavsh'sPartyRoom's Schedule:
1) 2018-02-27 | PartyTime: 04:00:00 - 04:45:00

Redirecting to Home Page Menu...
```

Import and Export Feature Demo -> After importing the room, view the rooms information page

- After importing the room, press 3 to list the rooms and verify whether the rooms are imported properly

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 15:02:34

ROOM INFORMATION PAGE

4 Room(s) available

1) RoomADD || Capacity: 5
2) JackSparrow'sPrivateRoom || Capacity: 8
3) VivekVellaiyappan'sRoom || Capacity: 10
4) Iavsh'sPartyRoom || Capacity: 9

Redirecting to Home Page Menu...
_
```

Import and Export Feature Demo -> After importing the room, view all rooms scheduled information page

- After importing the room, press 5 and then 'ALL_ROOMS' to list all the rooms scheduled info and verify whether the rooms are imported properly

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 15:02:39

SCHEDULED ROOM INFORMATION PAGE

Note: Input exactly this word to list all room schedules: ALL_ROOMS

Room Name: ALL_ROOMS

RoomADD's Schedule:
No Meetings being scheduled for this room

JackSparrow'sPrivateRoom's Schedule:
1) 2018-02-25 | RobAShipTime: 01:00:00 - 02:00:00

VivekVellaiyappan'sRoom's Schedule:
1) 2018-02-17 | CodingTime: 02:30:00 - 03:00:00
2) 2018-02-20 | FriendsWatch: 05:00:00 - 06:00:00

Iavsh'sPartyRoom's Schedule:
1) 2018-02-27 | PartyTime: 04:00:00 - 04:45:00

Redirecting to Home Page Menu...
```

Quitting the program

- Press 8 to quit the program.

```
*****
ROOM SCHEDULER PAGE
*****
Today: 2018/02/17 14:02:48

Main Menu:
1 - Add a room
2 - Remove a room
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4 - Schedule a room
5 - List Schedule
6 - Import Room Schedule
7 - Export Room Schedule
8 - Quit
Enter your selection: 8
Quitting the program...
_
```

Thank you so much for viewing this working
demo sheet.

Hope you got an idea of how this application
works.

Highly appreciate if you could test this
application and log any issues or
enhancements

Regards,
Vivek Vellaiyappan Surulimuthu
<https://github.com/vivekVells>