

<<Interface>> Service
+ orderPeriod(ArrayList<Reservation>): ArrayList<Reservation>

JSONOutput
- sole inst: <u>JSONOutput</u>
- Output() + obtainInst():

Underline ==> static
 - ==> private
 + ==> public

<<Interface>> Master
+ field: type
+ field: type
+ field: type

VenueHireSystem
- list_venue: ArrayList<VenueInfo> - list_booking: ArrayList<Reservation>
- VenueHireSystem() - processCommand(JSONObject): void

Room
- room_title: String - room_capacity: String - list_period: ArrayList<LocalDate>
+ RoomInfo(String, String) + obtainTitle(): String - inputTitle(String): void + obtainCap(): String - inputCap(String): void + scanPeriod(LocalDate, LocalDate): bool + addPeriod(LocalDate, LocalDate): void + remPeriod(LocalDate, LocalDate): void

Reservation
- res_no - begin: LocalDate - finish: LocalDate - s_room: int - m_room: int - l_room: int - v_info: VenueInfo - list_room: ArrayList<RoomInfo>
+ Reservation(String, LocalDate, LocalDate, int, int, int) + obtainResNo(): String - inputResNo(String): void + obtainBeginDate(): LocalDate - inputBeginDate(LocalDate): void + obtainFinishDate(): LocalDate - inputFinishDate(LocalDate): void + obtainSRoom(): int - inputSRoom(int): void + obtainMRoom(): int - inputMRoom(int): void + obtainLRoom(): int - inputLRoom(int): void + obtainVInfo(): VenueInfo + inputVInfo(VenueInfo): void + obtainListRooms(): ArrayList<RoomInfo> + obtainVTTitle(): String - increaseRCount(RoomInfo): void + scanFree(VenueInfo): bool + scanFreeR(ArrayList<RoomInfo>, int): void + amendChanges(LocalDate, LocalDate): void + revokeRes(LocalDate, LocalDate): void

Venue
- venue_title: String - list_room: ArrayList<RoomInfo>
+ VenueInfo(String) + obtainTitle(): String - inputTitle(String): void + obtainRList(): ArrayList<RoomInfo> + increaseRCount(RoomInfo): void + scanSRooms(LocalDate, LocalDate): ArrayList<RoomInfo> + scanMRooms(LocalDate, LocalDate): ArrayList<RoomInfo> + scanLRooms(LocalDate, LocalDate): ArrayList<RoomInfo>