

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

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

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

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

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

<div>RoomInfo</div>
<div>- room_title: String - room_capacity: String - list_period: ArrayList<LocalDate></div>
<div>+ 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</div>

<div>Reservation</div>
<div>- res_no - begin: LocalDate - finish: LocalDate - s_room: int - m_room: int - l_room: int - v_info: VenueInfo - list_room: ArrayList<RoomInfo></div>
<div>+ 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</div>

<div>VenueInfo</div>
<div>- venue_title: String - list_room: ArrayList<RoomInfo></div>
<div>+ 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></div>