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| Signature | Description | Input | Output | Output Format | Exception |
| public ResponseObject getContracts(R r) | Get patient information | Request object r  barcode: String | JSON String of Patient entity | PatientExtenedModel | JsonProcessingException |
| Contractlean if the update is successntractpublic ResponseObject patientList  (R r) | Search patient by name | Request object r contains:  keyword: String  page: Integer  pageSize: Integer | JSON String list of Patient entity | PatientExtendedPageModel | JsonProcessingException |
| public ResponseObject registerPatient  (R r) | Register exam for new patient | Request object r contains:  Patient’s full name: String  Patient’s birthday: String  Patient’s email: String  Patient’s gender: Byte  Patient’s weight: Integer  Patient‘s height: Integer  Patient’s heart beat: Integer  Patient’s blood pressure: Integer  Patient’s waits: Integer  Patient’s body fat: Float  Patient’s visceral fat: Float  Patient’s muscle mass: Float  Patient’s body water: Float  Patient’s phase angle: Float  Patient’s impedance: Float  Patient’s basal metabolic rate: Float  Doctor will be assigned: Float  Patient’s medical history: Float  Patient’s current symptoms: Float  Patient’s medicine use history: Float | JSON String of Patient entity and medical order number | PatientExtenedModel | JsonProcessingException |
| public ResponseObject updatePatient  (R r) | Register exam for old patient | Request object r contains:  Patient’s id: Integer  New medical record option: boolean  Patient’s weight: Integer  Patient‘s height: Integer  Patient’s heart beat: Integer  Patient’s blood pressure: Integer  Patient’s waits: Integer  Patient’s body fat: Float  Patient’s visceral fat: Float  Patient’s muscle mass: Float  Patient’s body water: Float  Patient’s phase angle: Float  Patient’s impedance: Float  Patient’s basal metabolic rate: Float  Doctor will be assigned: Float  Patient’s medical history: Float  Patient’s current symptoms: Float  Patient’s medicine use history: Float | JSON String of Patient entity and medical order number | PatientExtenedModel | JsonProcessingException |
| public ResponseObject print  (R r) | Print prescription for a patient | Request object r contains:  patientId: Integer | PDF document of detail prescription | Byte arrays of PDF stream | IOException |
| public ResponseObject uploadImage  (R r) | Upload image of a medical history for patient | Request object r contains:  fileUploader  : MultipartFile object of image file | JSON string of file processing result | FileUploadModel | JsonProcessingException,  IOException |