

## API and Advanced Features:

The following stored procedures are developed in the database system to support the respective functionalities stated below:

Stored Procedure Name	Functional Purpose	Parameters
add_doctor	To register new doctor's details	doctorId,doctorName,doctorGender,doctorContactNo,doctorDOB,doctorAddress,doctorEmailId,doctorSalary,doctorExperience,specIdArray
add_equipment	To add equipment stock	equipName,suppId
add_insuranceProvider	To add new Insurance Provider partners	insuranceCompanyCode,insuranceCompanyName,insuranceCompanyAddress
add_medicalrecord	To update the patient's medical record at each visit	MRId,patientId,appointmentId,signs,symptoms,diseaseDiagnosed,treatmentSuggested,clinicalNotes,doctorId
add_medicine	To add medicine to the stock	medName,medPrice,expDate,suppId
add_room	To add/allocate room for a treatment	treatName,rName,rLocation
add_treatment	To add a new treatment	treatName,treatCost
book_appt	To book appointment	doc_id,pat_id,apptSlot
did_generator	To generate the doctor Id	OUT did
get_appointments	To get the list of appointments ordered by visit date	–
get_doctors	To get the list of all the doctorId, doctorName in the system	–
get_medicine	To get the list of medicines based on keyword	searchType,keyword
get_medicines	To get the list of medicineId, medicineName in the system	–
get_specs	To get list of specializationId, specializationName in the system	–
getAll_equipment	To get the records of equipment	–

Table 1 List of Database APIs

Stored Procedure Name	Functional Purpose	Parameters
getAll_insuranceCompsList	To get list of insurance providers Code,Name	–
getAll_medicines	To get the records of all medicines in system	–
getAll_treatments	To get names of all treatments available	–
getKey_equipment	To get the matched records of equipment with the keyword	searchType,keyword
getPatients_insuranceCover	To get specific patient's insurance cover details	patientId
getSpecific_MR	To get the medical record details of a patient at a certain visit	patId,aptId
insert_insuranceCover	To add patient's insurance details to the system	insCompCode,policyNoInp,patientId,coPay,coInsurance,policyExpiryDate,insuranceGroupNumber
mr_validator	To verify if medical record is updated for a visit	patId,aptId
pid_generator	To generate the patient Id	OUT pid
prescribe	To add prescription for a patient	patId,docId,medicineArray,quantityArray
register_patient	To register new patient's details	patientId,patientName,patientGender,patientContactNo,patientEmailId,patientDOB,patientAddress
room_allocations	To view all rooms allocation details	–
search_patient	To fetch keyword matched patient's records	searchType,keyword
treatment_analysis	To derive insights on treatments suggested	–
update_ic	To update patient's insurance cover details	insuranceCompanyCodeInp,policyNoInp,patientIdInp,coPayInp,coInsuranceInp,policyExpiryDateInp,insuranceGroupNumberInp
update_mr	To update the medical record of patient at a visit	MRIdInp,patientIdInp,appointmentIdInp,signsInp,symptomsInp,diseaseDiagnosedInp,treatmentSuggestedInp,clinicalNotesInp

Table 2 List of Database APIs