

DATABASE MANAGEMENT SYSTEMS

PROJECT REVIEW – 3 – **TOPIC – HOSPITAL DATABASE MANAGEMENT SYSTEM**

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TECH REQUIREMENTS







HTML,CSS,PHP,XAMPP

SQL DATABASE(PHP MY ADMIN)

PATIENCE

ABSTRACT:

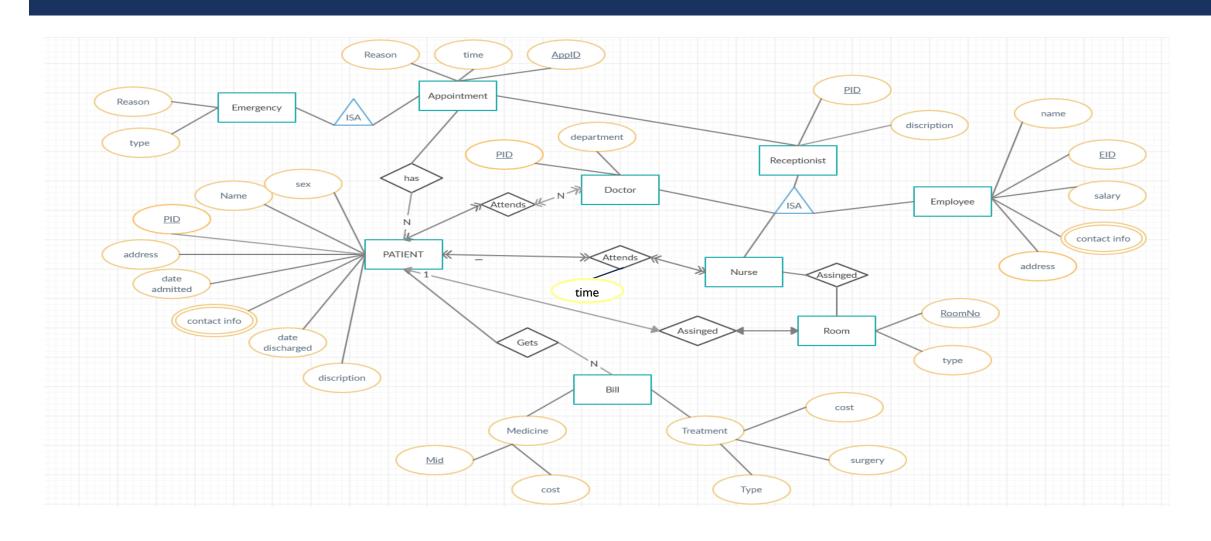
- We are going to build a hospital management system which would have everything what we generally see on a hospital website with an ease to access their portals and that book an online appointment in a very easy way.
- VIT Hospital management system is online patient management and Appointment, Scheduler application software for getting an appointment very easily over the internet. This Hospital management system application software is built upon PHP. Hospital can take the online patient appointment and patient can take doctor schedule from anywhere in the world. The main aim of our project is to provide a paperless hospital. It also aims at providing low-cost reliable automation. The system also provides excellent security of data at every level of user-system interaction. Thus we have devoloped an automated version of the manual system, named as "VIT Hospital Management System".

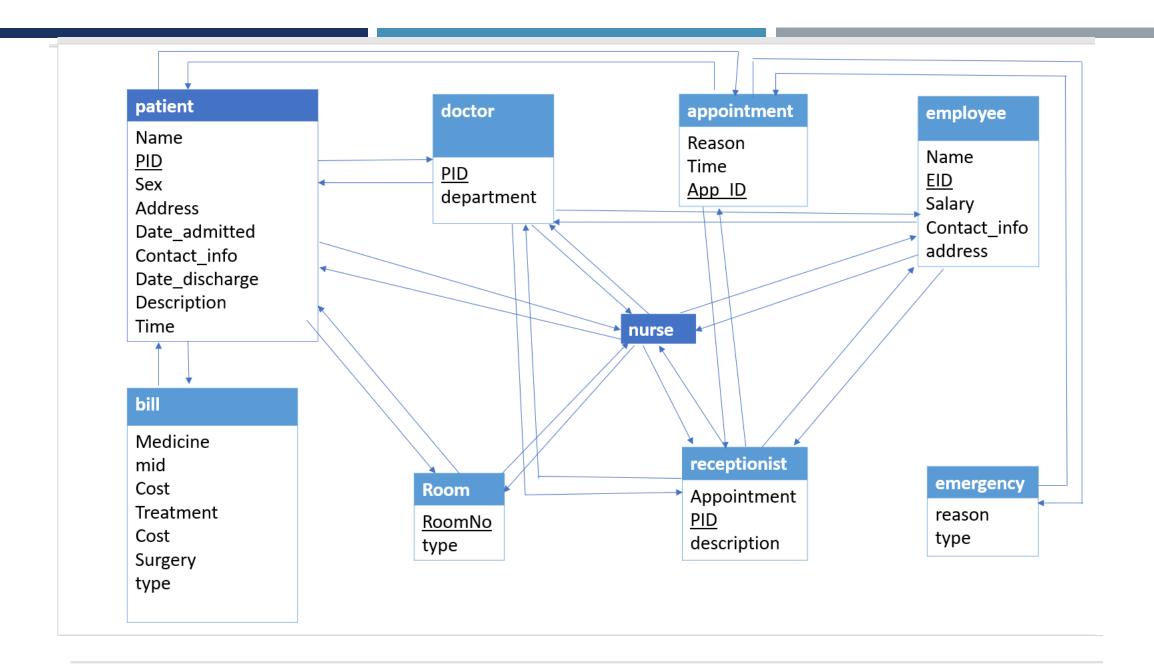
INTRODUCTION:

- The project Hospital Management system includes registration of patients, storing their details into the system, and also computerized billing in the pharmacy, and labs. The software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the current status of each room. User can search availability of a doctor and the details of a patient using the id.
- The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast.
- Hospital Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals.

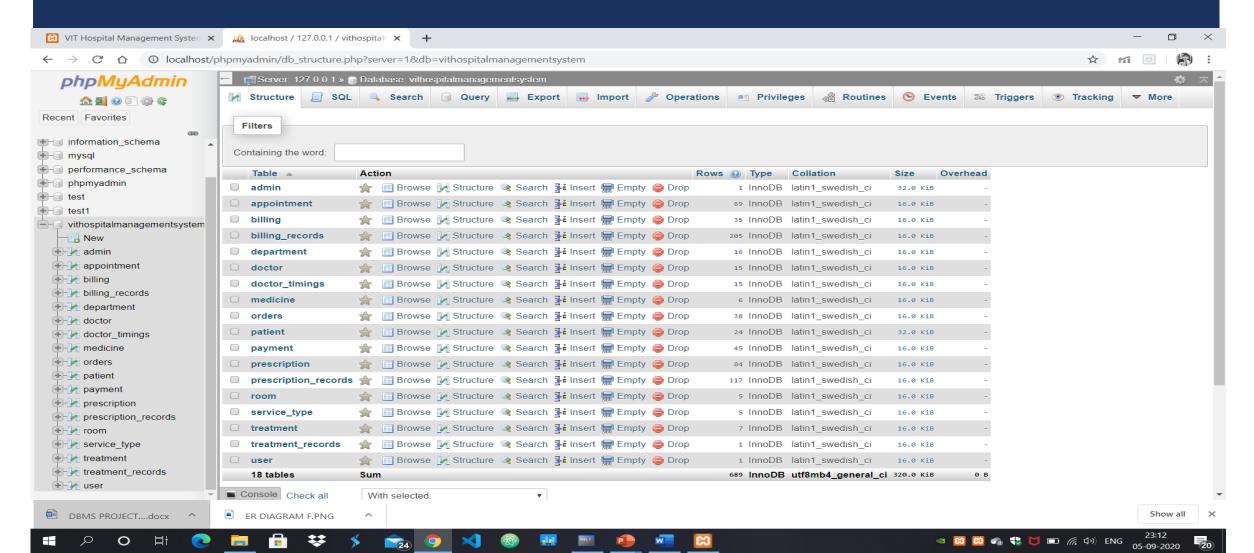
- Hospital Management System is designed for multispeciality hospitals, to cover a wide range of hospital administration and management processes. It is an integrated end-to-end Hospital Management System that provides relevant information across the hospital to support effective decision making for patient care, hospital administration and critical financial accounting, in a seamless flow.
- Hospital Management System is a software product suite designed to improve the quality and management of hospital management in the areas of clinical process analysis and activity-based costing.
 Hospital Management System enables you to develop your organization and improve its effectiveness and quality of work. Managing the key processes efficiently is critical to the success of the hospital helps you manage your processes

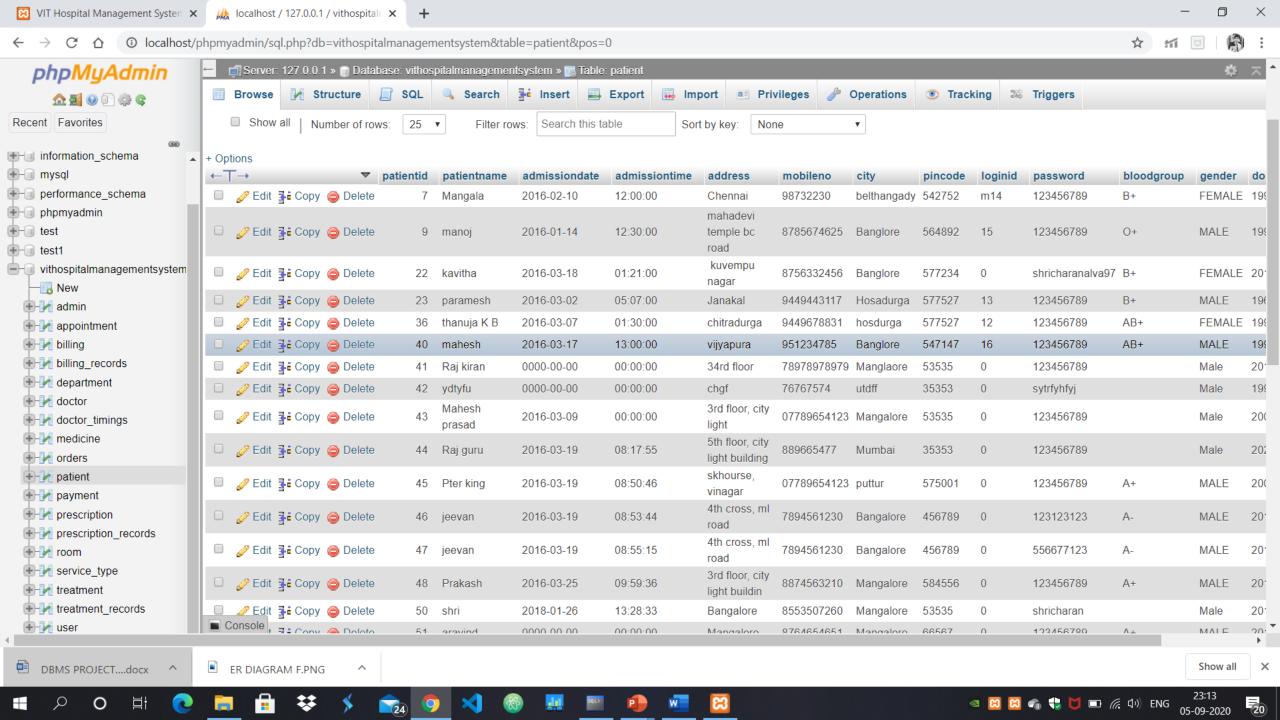
ER DIAGRAM AND RELATIONAL SCHEMA

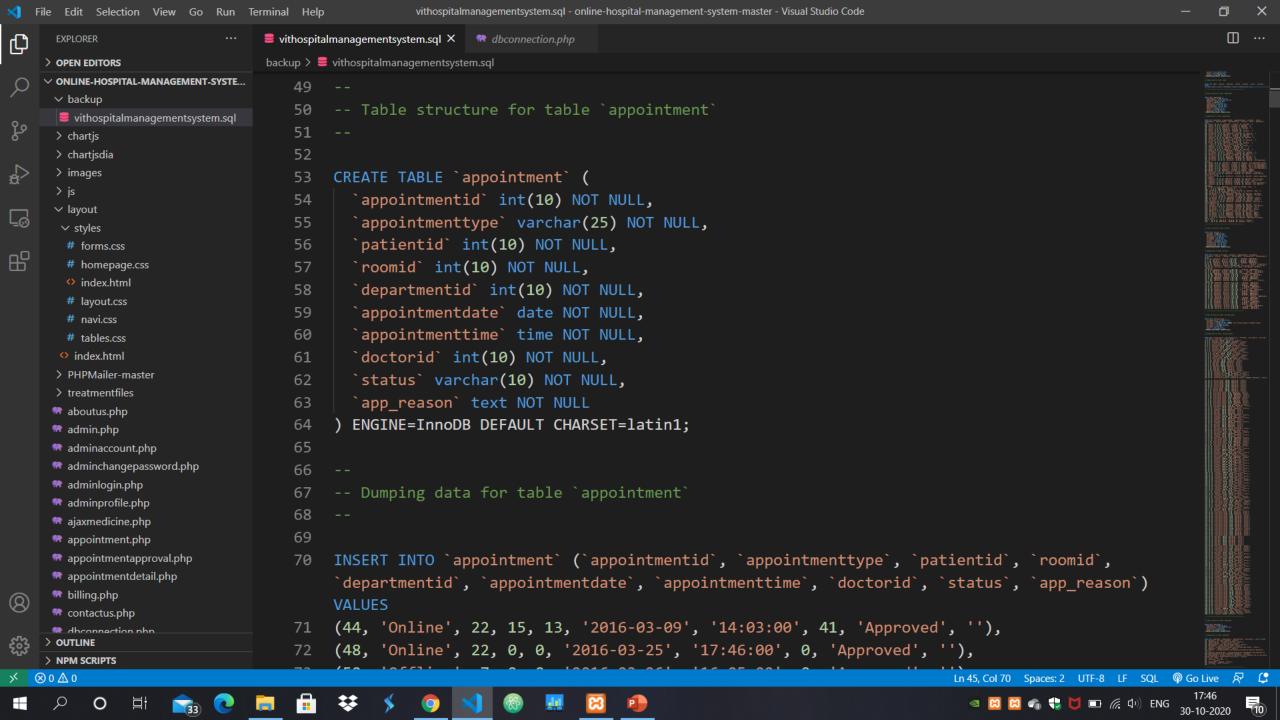


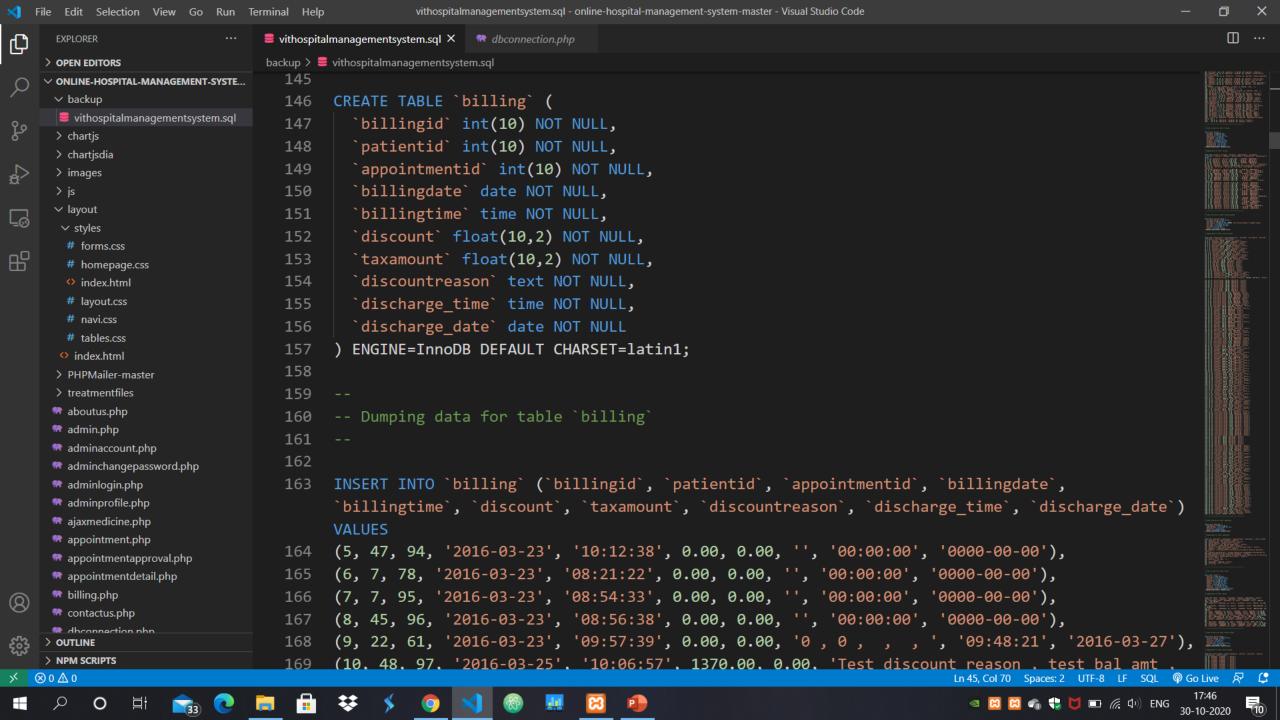


CREATION OF RELATIONAL TABLES:









NORMALIZE THE TABLES:

```
* NORMALIZE THE TABLES
we will be taking 5 tables, :- admin, appointment
doctor, billing, user.
admin: dependencies.
 A -> BC DE
 C \rightarrow BD
 B → D : C.K. = 4 A
.. LHS proper subset of C.K. Or RHS are not all key
 attributes.
 : It's in 2 NF
 FOX 3 rd NF:
                       : 3 diff. tables :
    _ c→B
                        LH8 is C.K. or a RMS
   - B-> D
                       non-key attributes.
ace - A->CE
· appointment
A -> BCDEF
C -> DEF
                 C.K = A
B->C
 D-> GF
  : LHS proper subset of C-K. Or RHS are not all ky
   attributes.
  : It's in 2NE.
```

```
Converting to 3NF
          :. LHS are super kay
 8->C
D->FE. RMS are non-key attributes.
        : It's 3 NF
. doctor .
 A > BCDE
 C -> DEF
 D \rightarrow F
 F-> E (.K. = A
 LHS is a proper subset of C.K & no
 pertial dependency
       IN 2 NF
 C -> D
  D->F
           LUS one Super kay
 F->E
           RMS - non- key attributes.
  A -> CB
        . In BNF
Billing
 A-> BCD
           C.K-A
 CD→ F
  .. LHS subset of c.k + no P.D.
.. In 2 NF
cd >e
  A > DCB. .. NOW LANS is a c.K
              RMS- non- key attributes.
            -: In 3NF
```

```
WSEX...

A > BCDE

C.K = A

CD > C.

LHS is a proper subset of C.K.

It's in 2NF.

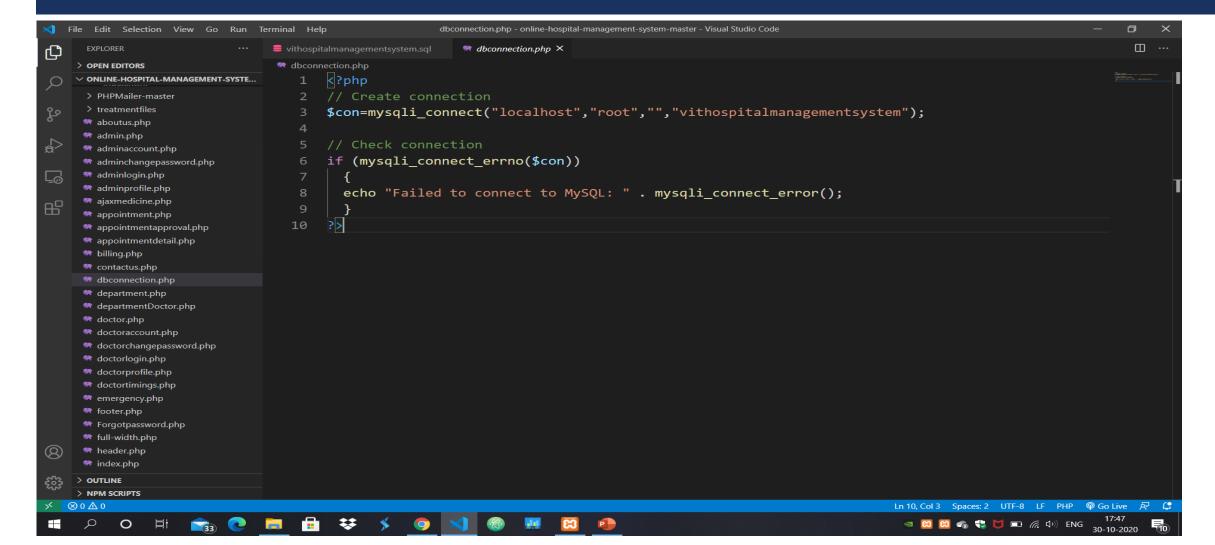
CD > C

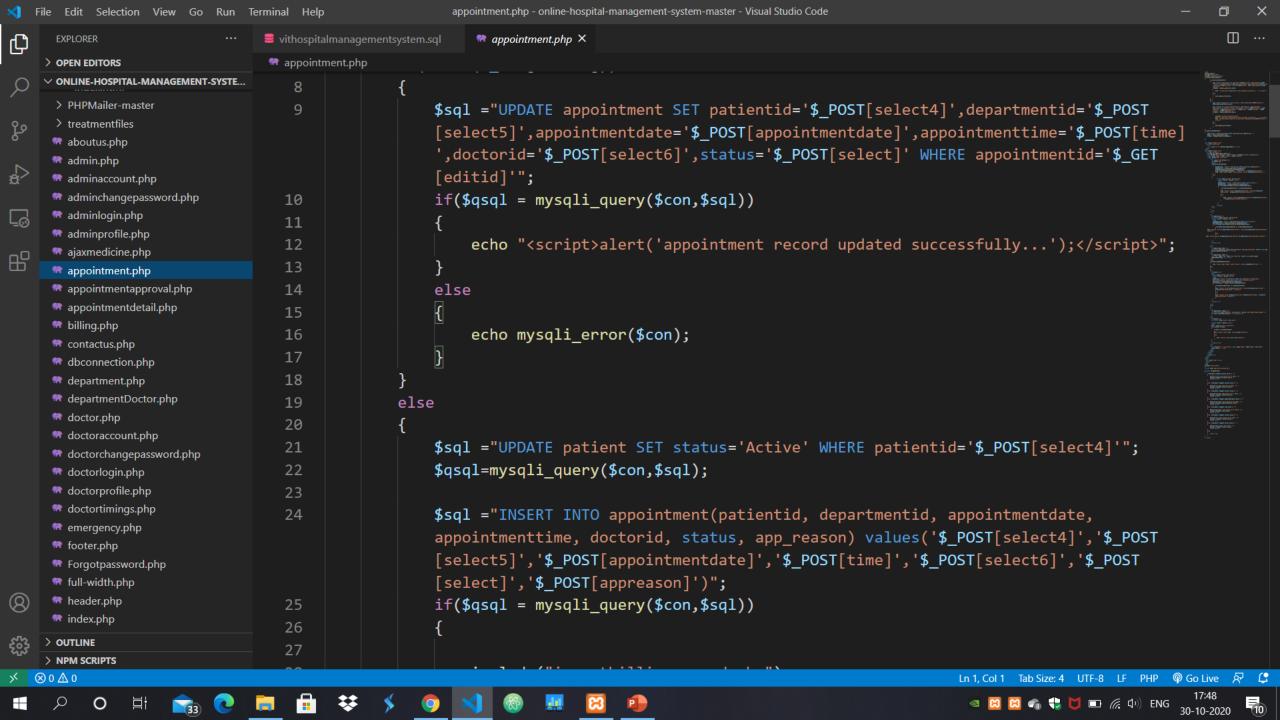
LHS is a con- key attributes

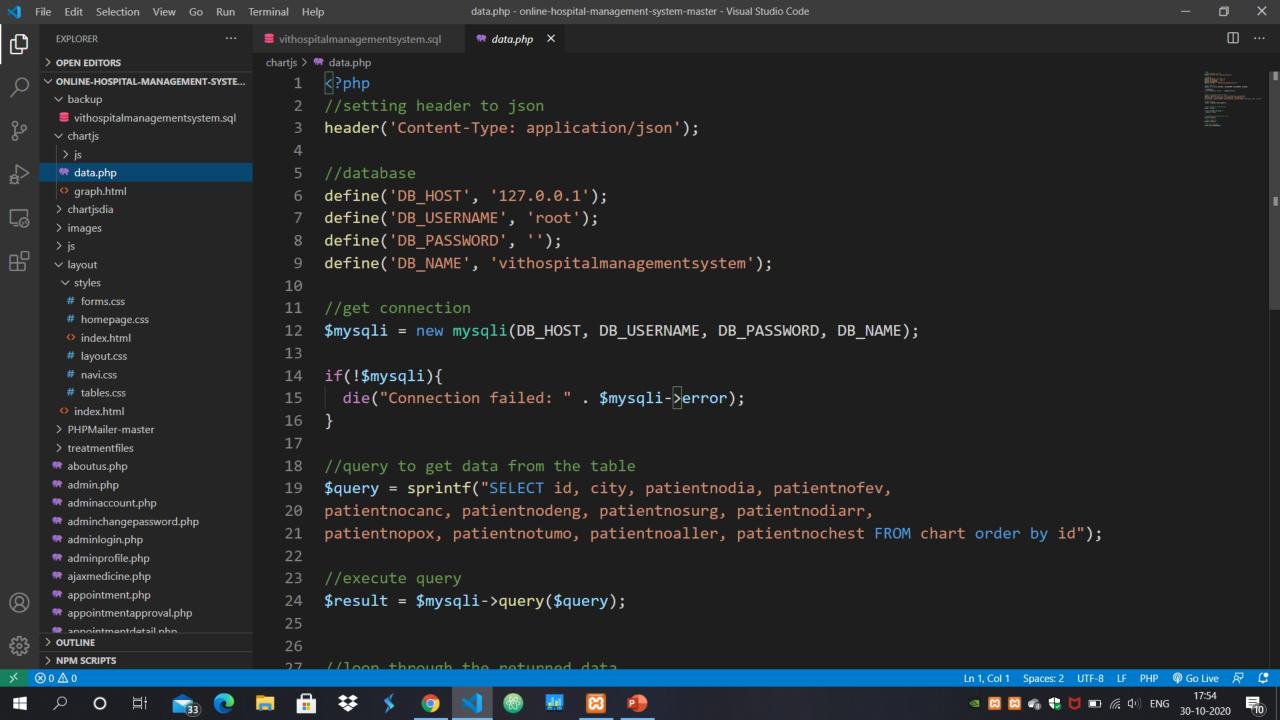
RHS - non- key attributes

Th 3NF
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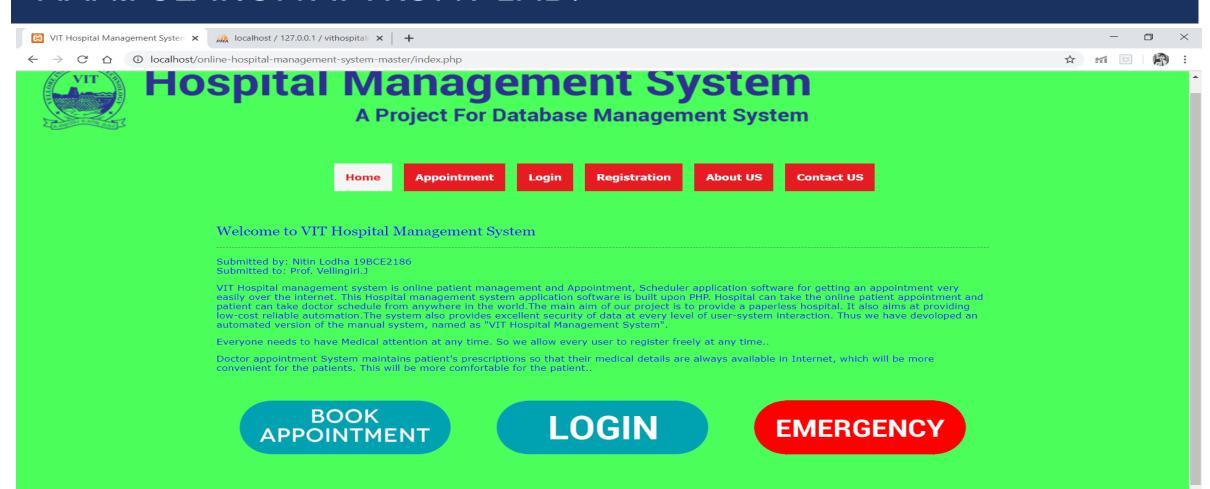
DB CONNECTION:

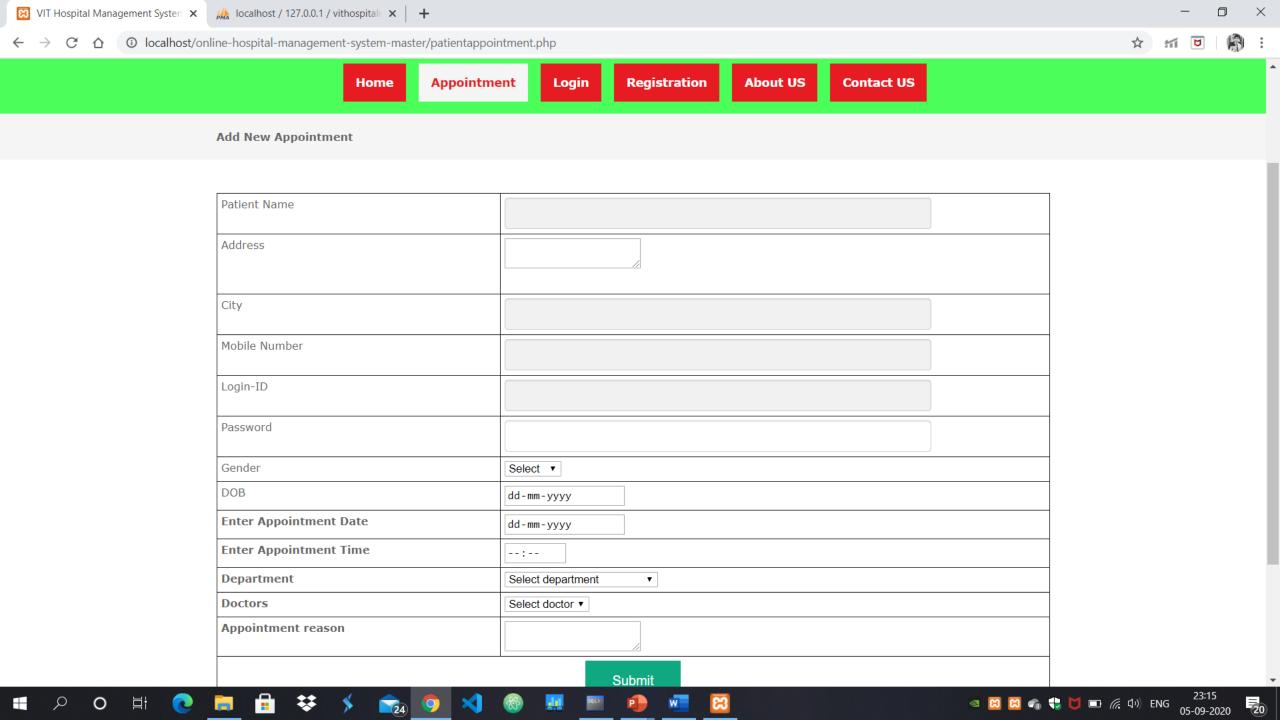






MANIPULATION AT FRONT END:





REFERENCES:

- 1. C. J. Date, A. Kannan and S. Swamynathan, *An Introduction to Database Systems*, Pearson Education, Eighth Edition, 2009.
- 2. Abraham Silberschatz, Henry F. Korth and S. Sudarshan, *Database System Concepts*, McGraw-Hill Education (Asia), Fifth Edition, 2006.
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- 4. Peter Rob and Carlos Coronel, *Database Systems Design, Implementation and Management*, Thomson Learning-Course Technology, Seventh Edition, 2007.



THANK YOU

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