Delight Smiles

Leonora Diagnostic Centre

September 2018

APPLICATION specifications

Dental Department

**Name of Application :** Leonora Diagnostic Centre Dental Database.

**Name or Repository:** Delight\_Smiles\_cse2102

**Link to Repository:** [**https://github.com/Aammbbeerr/Delight\_Smiles\_cse2102**](https://github.com/Aammbbeerr/Delight_Smiles_cse2102)

**Revision Sheet**

|  |  |  |
| --- | --- | --- |
| **Release No.** | **Date** | **Revision Description** |
| Rev. 0 | 9/30/18 | Database Specifications Template and Checklist |
| Rev. 1 | 10/10/18 | Conversion to WORD 2000 format |
| Rev. 2 | 10/31/18 | Edited Conceptual & Logical Database Design, Physical Structure and Schema |
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| --- | --- |
|  | **Application Specifications Authorization Memorandum** |

I have carefully assessed the Database Specifications for the (Leonora Diagnostic Centre Dental Database). This document has been completed in accordance with the requirements of the HUD System Development Methodology.

MANAGEMENT CERTIFICATION - Please check the appropriate statement.

\_\_\_\_\_\_ The document is accepted.

\_\_\_\_\_\_ The document is accepted pending the changes noted.

\_\_\_\_\_\_ The document is not accepted.

We fully accept the changes as needed improvements and authorize initiation of work to proceed. Based on our authority and judgment, the continued operation of this system is authorized.

\_\_\_Amber Beaton\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_2018-11-19\_\_\_\_\_\_\_

NAME DATE

Project Leader

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Operations Division Director

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NAME DATE

Program Area/Sponsor Representative

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NAME DATE

Program Area/Sponsor Director

**APPLICATION SPECIFICATIONS**

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1. **General Information and Requirements**
   1. **Purpose**

The purpose of this database specification is to employ a more efficient way to securely store valid and mandatory information about patients who visit the Leonora Diagnostic Centre.

* 1. **Scope**

This database management system will focus on one section of the hospital, which is the Dental Department.

* 1. **Problem Statement**

Miss Shavannie Persaud, the manager of the dental department, from the Leonora Diagnostic Centre, has found it very tedious to record and keep track of her patient’s required information. She is currently using manual books to document information needed. This method was working for the past year, however, as more patients are being registered to the dental department, the performance rate has dropped significantly. It is becoming more time-consuming for her to access, edit and even record the patients’ information. Also, the information can be easily breached and used by whoever gets their hands on the book.

She would like a database system to be implemented so that she can systematically record and secure the patients’ information within a database and record the dentist that does the operation on the patient’s teeth.

This database should allow them to access, record and process the given information faster so that it would be less time consuming.

Amber Beaton, a database manager has been assigned the task to create this database. The database should be able to edit the patient’s information such as: First and Last name, age, address, patient’s sex, number of anesthetics used on the teeth, Teeth ID, Dentist Name, Dentist ID and dentist’s sex.

* 1. **System Overview**

|  |  |
| --- | --- |
| **System Overview** | **Details** |
| System Name | Leonora Diagnostic Centre Dental Database |
| System Code | BNG-7H921 |
| System Type | Client Server Application |
| System Category | Major Application |
| Operational Status | Under Development |
| Database Name | LDC-Dental Record |

This MySQL server will be the main interface. The manager of the dental department can access, record and edit the required information about the patients easily and quickly. Only the manager of the dental department, the Hospital Administrator, who have permission to have knowledge of this information and the database manager can access this level of information.

The MySQL is a relation database management system (RDB MS) that would be used to link attributes that are related to each other.

* 1. **Abbreviations**

|  |  |
| --- | --- |
| **Abbreviation** | **Meaning** |
| LDC | Leonora Diagnostic Centre |
| RDBMS | Relation Database Management System |

**1.6 Points of Contact**

|  |  |  |  |
| --- | --- | --- | --- |
| **Position/Role** | **Name** | **Email Address** | **Contact Number** |
| Client | Shavannie Persaud | Ldc\_dental@gmail.com | +592 629-8143 |

1. **DATABASE IDENTIFICATION AND DESCRIPTION**
   1. **Naming Convention**

* User names: User names should be appropriate for work.
* Database name: LDC Dental Record.
* Table names: FName, LName, DOB, Sex, Address, Patient ID, Dentist ID, Teeth ID, Teeth number, etc.
  1. **Database Identifications**

The name of the database will be called: **LDC-Dental Record.**

The system code of the database will be called: **BNG-7H921.**

**2.3 System Using the Database**

The system that will be using the database is the MySQL server.

|  |  |
| --- | --- |
| **Product** | **Comments** |
| MySQL server | Database Management System |

**2.4 Relationships with other Databases**

This database will have a one to many relationship. After the attributes and entities are defined, the attributes of those entities will be identified. Then entities are: Patient, Dentist and Teeth. The attributes for Patients are: FName, LName, Patient ID, address, date of birth, sex etc. The attributes for Teeth are: Teeth ID and the number of anesthetics that will be used on the teeth. Also, the attributes for the Dentist are: Dentist ID, FName, LName and sex. The relationship between the three entities (Patient, Dentist and Teeth) is: \* **Patient VISITS Dentist\*, \*Dentist REMOVES Teeth\* .**

**2.5 Schema Information**

**Description:** The Database can be defined at three stages. Namely: The External Schema, the conceptual/ logical schema and finally the physical schema.

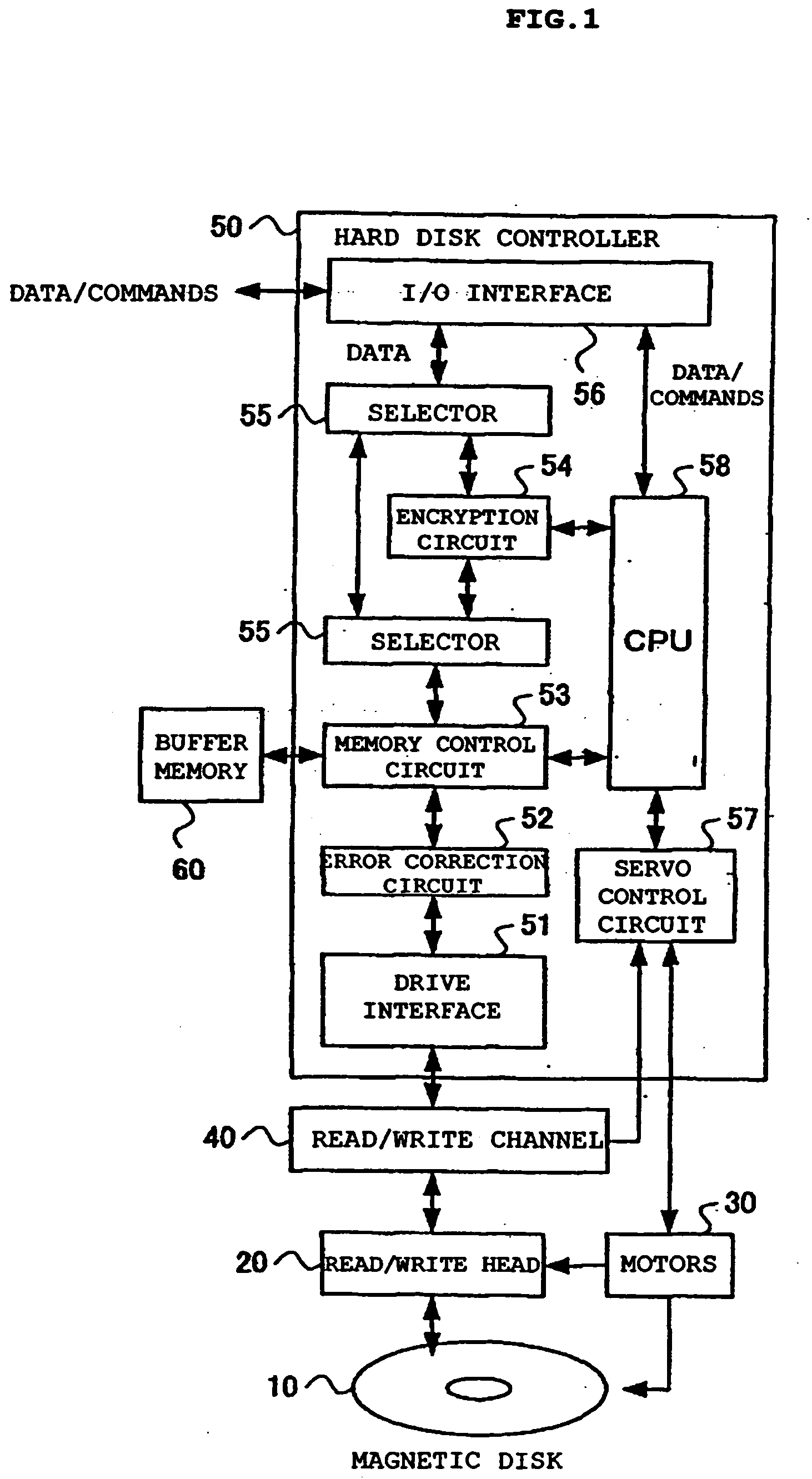
For the external schema, the user of the database may see titles such as: Patient ID, First Name, Last Name, Age, Date of Birth, Address, Teeth Number, Number of Anesthetics etc. For the conceptual/ logical schema.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PID (P-K) | Patient Name | First Name | DOB | Sex | Address | Note |
| 1 | Pat | Harry | 1946-03-20 | F | 11 Uitvlugt WCD |  |
| 2 | John | Smith | 1980-11-13 | M | 21 Den Amstel WCD |  |
| 3 | Sam | Jones | 1973-06-09 | M | 77 Leonora WCD |  |

For the conceptual/ logical schema, it stores data in terms of the data model of the Database Management system (DBMS). It describes all information that is stored in the database.

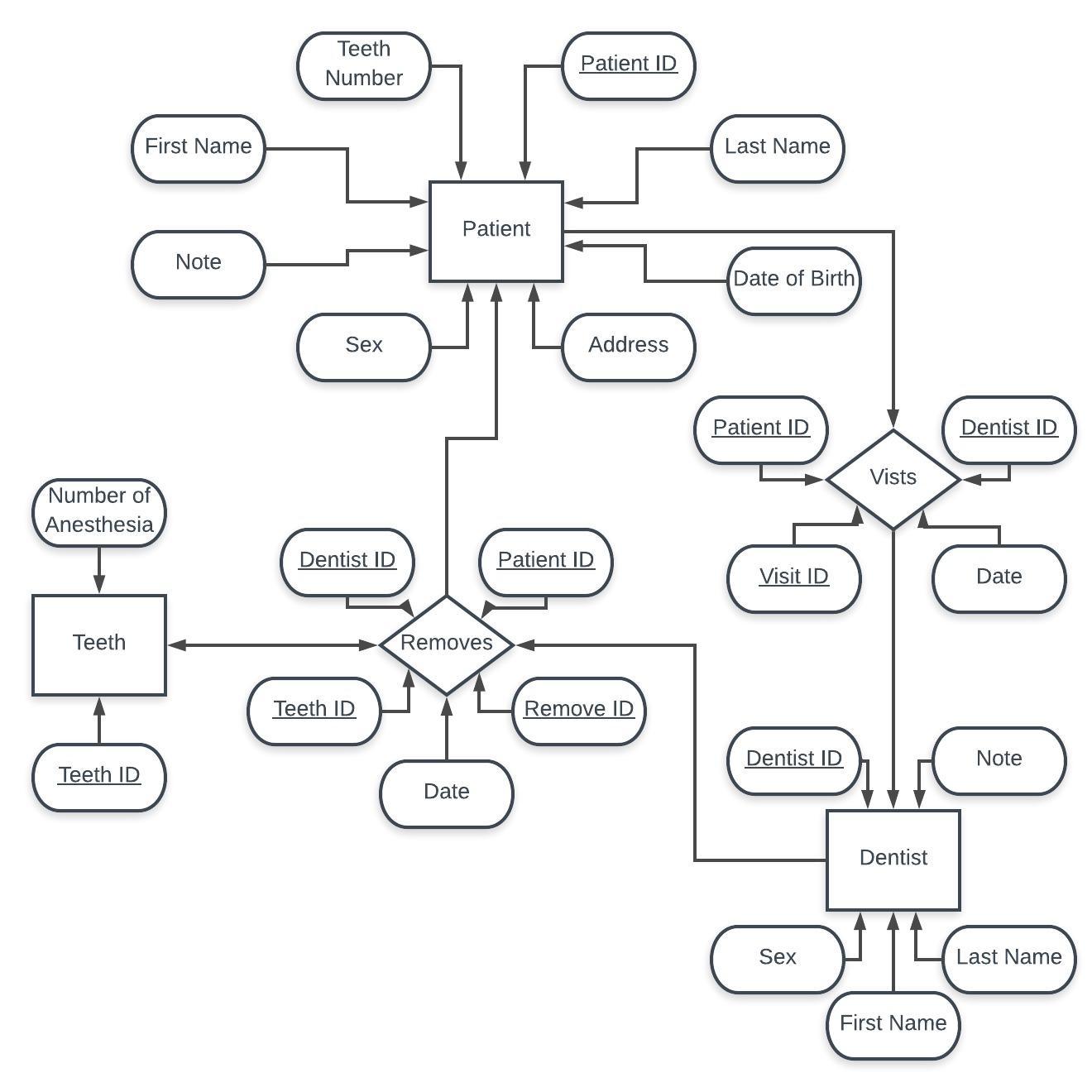
|  |  |
| --- | --- |
| **Patient Table** | **Data Type** |
| Patient ID | INT |
| First Name | VARCHAR |
| Last Name | VARCHAR |
| DOB | DATE |
| Address | VARCHAR |
| Teeth Number | INT |
| Number of Anesthetic | INT |

For the physical schema, the description on the storage details can be found. This is how the information within the database is stored.



**2.5.2 Physical Design**

Below is an ER- database design of how this database will look like:



**2.5.3 Physical Structure**

**Patient**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PID (P-K) | Patient Name | First Name | DOB | Sex | Address | Note |
| 1 | Pat | Harry | 1946-03-20 | F | 11 Uitvlugt WCD |  |
| 2 | John | Smith | 1980-11-13 | M | 21 Den Amstel WCD |  |
| 3 | Sam | Jones | 1973-06-09 | M | 77 Leonora WCD |  |

**Teeth**

|  |  |
| --- | --- |
| TID (primary key) | Number of Anesthesia |
| 1 | 1 |
| 2 | 2 |
| 3 | 2 |

**2.6 Special Instruction**

The only persons who should have entry to the database are:

* The Dental Manager
* The Hospital Administrator
* The Database Manager

A code will be sent to the emails of the dental manager and hospital administrator. They should be able to utilize that code to log in as an admin. The dental manager as an admin should be able to access, insert, edit, delete, sort, search and update the information of the patients within the database, while the hospital administrator should only be able to access and update the information within the database. The database manager should be able to update, secure and manage the database. The database manager will provide the instructions on how to use the database.

1. **DATABASE ADMINISTRATIVE INFORMATION**
   1. **Responsibility**

The following are members of delight smiles. These group of persons are responsible for certain parts of the database:

|  |  |
| --- | --- |
| **Personnel** | **Responsibility** |
| Amber Beaton | Database Administrator |
| Ronaldo Springer | System Administrator |
| Jason Jacobs | Security Administrator |
| Kim Shing Chong | Maintenance Administrator |
| Feliciann Elliot | Database Designer |

Delight Smiles are responsible for the upkeep of the database. The role may include capacity planning, installation, configuration, database design, migration, performance monitoring, security, troubleshooting, as well as backup and data recovery.

* 1. **System Information**

MySQL

* + 1. **Security**

There are general factors that affect good security. These include choosing good passwords, not granting unnecessary privileges to users, ensuring application security by preventing SQL injections and data corruption.

Security of the installation itself. The data files, log files, and the all the application files of your installation should be protected to ensure that they are not readable or writable by unauthorized parties.

Security of the installation itself. The data files, log files, and the all the application files of your installation should be protected to ensure that they are not readable or writable by unauthorized parties.

**3.3** **Storage Requirements**

|  |  |
| --- | --- |
| **Storage Device** | **Minimum Free Space** |
| Hard disk | 32 GB |

**3.4 Recovery**

The information on the database will be saved in Cloud SQL for the MySQL database, the hard dive disk, RAM, etc.

**3.5 Error Handling**

The database manager should be able provide a document that contains information on how to handle possible errors that are within the database.

**REFERENCE**

<http://www.dartmouth.edu/~bknauff/dwebd/2004-02/DB-intro.pdf>

<https://www.techrepublic.com/article/relational-databases-defining-relationships-between-database-tables/>

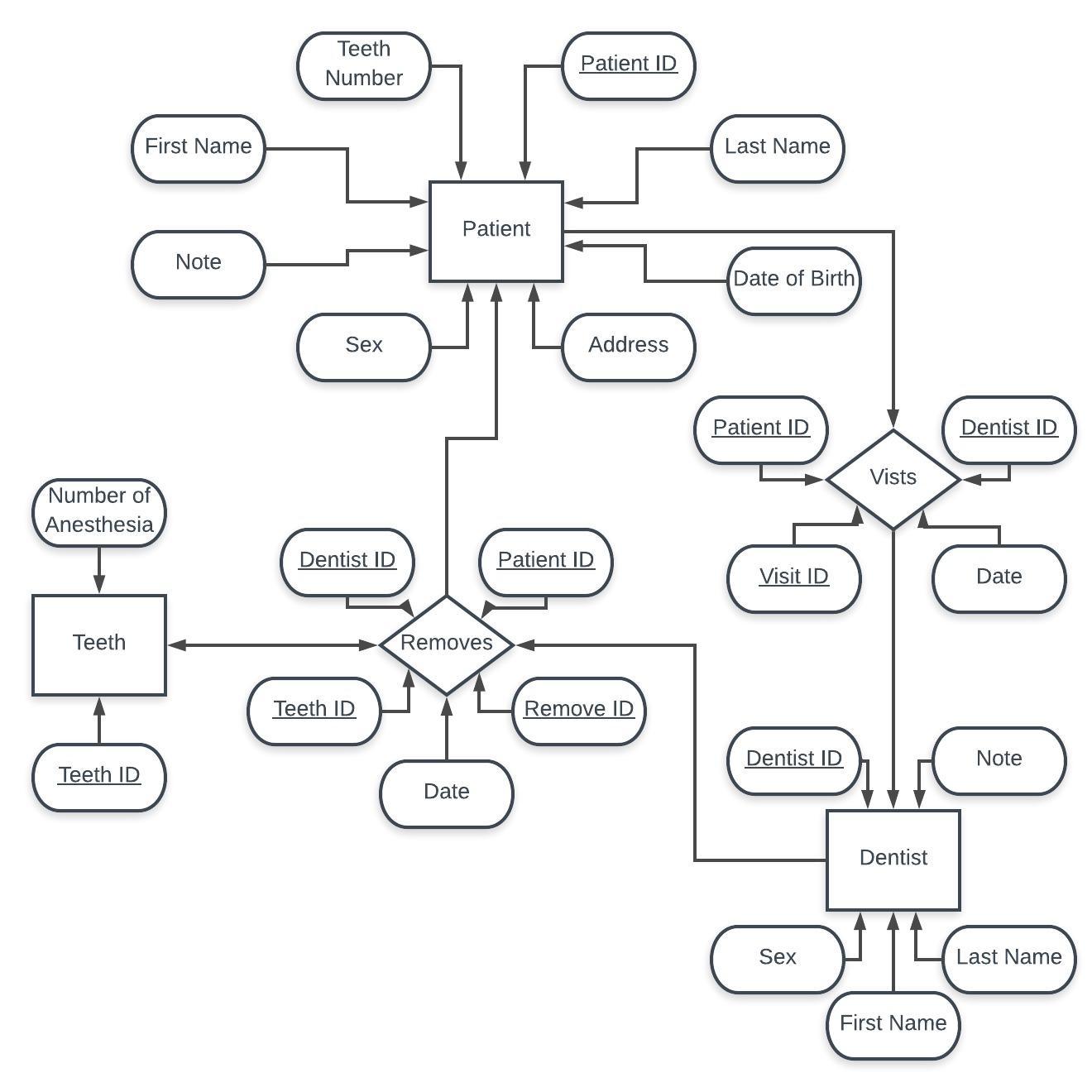
<https://downloads.mysql.com/docs/mysql-security-excerpt-5.6-en.pdf>

CONCEPTUAL AND

LOGICAL

DESIGN

ENTITY RELATIONSHIP DIAGRAM



**CONCEPTUAL DATABASE DESIGN**

ENTITY SET

* Patient
* Teeth
* Dentist

ATTRIBUTES OF ENTITIES

Patient

* Patient ID
* Teeth Number
* First Name
* Last Name
* DOB
* Sex
* Address
* Note

Teeth

* Teeth ID
* Number of Anesthesia

Dentist

* First Name
* Last Name
* Dentist ID
* Sex
* Note

ATTRIBUTES OF RELATIONSHIPs

Removes

* Date
* Remove ID
* Patient ID
* Dentist ID
* Teeth ID

Visits

* Date
* Visit ID
* Patient ID
* Dentist ID

Example:

Patient Table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PID (P-K) | Patient Name | First Name | DOB | Sex | Address | Note |
| 1 | Pat | Harry | 1946-03-20 | F | 11 Uitvlugt WCD |  |
| 2 | John | Smith | 1980-11-13 | M | 21 Den Amstel WCD |  |
| 3 | Sam | Jones | 1973-06-09 | M | 77 Leonora WCD |  |

Dentist Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DID (P-K) | First Name | Last Name | Sex | Note |
| 1 | Shivnarine | Singh | M |  |
| 2 | April | Rose | F |  |
| 3 | Alliah | Ali | F |  |

Teeth Table

|  |  |
| --- | --- |
| TID (primary key) | Number of Anesthesia |
| 1 | 1 |
| 2 | 2 |
| 3 | 2 |

**LOGICAL DATABASE DESIGN**

**Dentist:**

* Dentist ID: INT (7)
* First Name: VARCHAR (15)
* Last Name: VARCHAR (15)
* Sex: CHAR (1)
* Note: VARCHAR (100)

**Dentist: ( Dentist ID: INT (7), First Name: VARCHAR (15), Last Name: VARCHAR (15), Sex: CHAR (1), Note: VARCHAR (100) )**

**Removes:**

* Remove ID: INT (7)
* Date: DATE
* Dentist ID: INT (7)
* Teeth ID: INT (7)
* Patient ID: INT (7)

**Removes: ( Remove ID: INT (7), Date: DATE, Dentist ID: INT (7), Teeth ID: INT (7), Patient ID: INT (7) )**

**Teeth:**

* Teeth ID: INT (7)
* Number of Anesthesia: INT (1)

**Teeth: ( Teeth ID: INT (7), Number of Anesthesia: INT (1) )**

**Patient:**

* Patient ID: INT (7)
* Teeth Number: INT (7)
* First Name: VARCHAR (15)
* Last Name: VARCHAR (15)
* DOB: DATE
* Sex: CHAR (1)
* Address: VARCHAR (120)
* Note: VARCHAR (100)

**Patient: (Patient ID: INT (7), Teeth Number: INT (7), First Name: VARCHAR (15), Last Name: VARCHAR (15), DOB: DATE, Sex: CHAR (1), Address: VARCHAR (120), Note: VARCHAR (100) ).**

**Visits:**

* Date: DATE
* Visit ID: INT (7)
* Patient ID: INT (7)
* Dentist ID: INT (7)

**Visits: ( Date: DATE, Visit ID: INT (7), Patient ID: INT (7), Dentist ID: INT (7) )**

![A screenshot of a video game

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAwADAAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFtYmVyAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyOQAAkpIAAgAAAAMyOQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMnXP+WH/Av6UUa5/yw/4F/Sioe4zat/8Aj5j/AN4VBqn/ACEH+g/lU9v/AMfMf+8Kg1T/AJCD/QfyqxFSuy8VXE1ppfhG4tZGimj08MjocFSG6iuNrol8YTfZ9PSbStNuJNOi8q2mmSRio9Su/aTnnlTU9vX/ADF39P8AI7TxPBDYr4t1CyVY76S3tFl2DBiEv+s/76wM/X3rG8M/6V4OtDdHP2PXbcWrMc7d5G9B6D+LHrXNWvifUoNRvLyeRbw36lLuO5G5JwexAwRjtggjHFEniW5LWK2ttbWltYzCeK1gVtjSZzuYsxZjwByeAMDFC/y/Mb2+/wDKx2zpanXPGsOl3U8+ozwzh7aeLy49oYlypDNvYdsheteY10F34uuZ5L6a2sbKxudQDC5uLcSF5Fbll+d2Cg99oFc/SSa+4qTTbfmFFFFMkKKKKACiiigAooooAKKKKACiiigCeytvtl9BbBtvnSKm7HTJxmt2ya3judXtra1SNYrOZBKXYu2MDnnbz14ArnopXhmSWJirowZWHYitE69P/pJjtraI3SMsxRDl93fk8d+nHPSuinKEVrv/AMA4cVSqVNI7W721v+JJp1mDDbvNp8EkcshBkuLnyy4BGdg3L09cHn8qv6TDFp/jJ7JIUcI7hJXLblGw8cED9KyU1iUW1vFJb28ptgRDJIpJTPtnB/EGmHV7n+2Tqa7EnLbiAPl6YIwe2K0jUpxcWuhjUoV6vPF6Jprd79Ovbfb0H2kUerapa2qW8VqrvhjEWOR3+8x5wDirs1lZPBeBorW08pS8DpeK7OR/Cw3HJI9AORWW18RcxT2sEVpJG24NCW5P/Aiadc36XW9nsbZJZOTIm8HPrjdj9KzUoqLvv/Xl/kayp1XJON0vXW9/XX8fQp0UUVzneFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVZ0//j/i+v8ASq1WdP8A+P8Ai+v9KYFu8/4+3/D+VQ1Nef8AH2/4fyqGmAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBk65/yw/wCBf0oo1z/lh/wL+lFQ9xm1b/8AHzH/ALwqDVP+Qg/0H8qnt/8Aj5j/AN4VBqn/ACEH+g/lViKlFFd34LtdLs9MgudbtILhdWvhZRedGrGNAp3OuRx8zKM+1IRwlFblt4Zll1LVIbmcW1tpW43UzLkgBtoCrkZYnoMge9b19ZRXfw70Sz0eWa58/VXjjM8SxMXYAYwGYY981N7q68vxdhvR2/ra5wtFegeHNNsNKu/EVpDqEt1eQaTcRzBbcLCCAN219+WweOVGaw08M2MPhvT9Y1PWDbx3xkVYYrbzJAVfbx8wBGMkkkY4ABzVDtoc3RXRf8ItCt7qhfVoH0zTQrSXtuvm+Zv+4qKDgsTwQWAGDzxTLrwwdmlT6Zd/abXVZPJhkmj8oxyBgpVwCwHXqCeKQjAord1/Q7HRLm5sxqFw99auFeKazMSv6lG3En15C5HI9KlTw1bW+gWGq6tqE1vFqDssRgtPOVApx87b1wc54AY4H4UdLh1sc7RSsArkBgwBwGGcH35pKACiiigAooooAKKKKACipIESS4jSWTyo2YBnxnaM9cd60V0NhrF3ZTziNLVGd5tuflA4OM98jv3qZTjHcuMJS2MqirdrBZSKn2u8khZ2xiODftHqckfpmrsWgM2pX1nPdRwmzjMjSFSVIGPxHB96TqRjuNU5S2Meir81hAYYZNPu/tDSy+V5ToEkB7HbuPB9ade2FpZvLAb4vcxDDKsP7st3UNnP/jtHtIvQPZyM6iulvLS2utP0RLi6aFpIRGgSLecljyeRgfmfasV7JLbUJ7a+n8ryWKsUTeWIOOBkD8yP6VMKql/XmVOk4/h+KuVKK1JNIQPp7W9yZIL5tiu0e1kO7BBGSO/rT7jR7SCa6t/7TQ3FurNho9qPg/dDE/ex2x7Zp+1gL2UzIooorQyCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACrOn/APH/ABfX+lVqs6f/AMf8X1/pTAt3n/H2/wCH8qhqa8/4+3/D+VQ0wCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMnXP+WH/Av6UUa5/wAsP+Bf0oqHuM2rf/j5j/3hUGqf8hB/oP5VPb/8fMf+8Kg1T/kIP9B/KrEVK6e+8XeXZaVZ6LFEsFjbBSbuyhkbziSzspYMQCcd+1cxRSA7W68X6ZfahqrTwXMdvrNnEt0Y0UtFcJj5kG4BlyOhIJz2qI+LNN0/SdHtNGguWk0y++1F7gKBPwM9CduTkY5wMck1x9FL0/rW4b7/ANaWO0h8SeHrG81u6tItRll1W3njHmoiiAyc7eGO4Z/i4wB0OeMbUtZt7zwnoumRJKJ7AzmVmA2ne2RjnP5gViUUdLDuzovDPiX+xrPULGWW8t4b5Vxc2T7ZYHXJBAyNwOcEZHHeoNV1RL6a1W51nV9VtkfMi3Y2Mo4zszJIMkZ5+nWsSinu7iOuu/FNufDN5pTXuoaybhkMJ1GJVFrt6sp3uScYGOB1+lR+GvEVpoTW0yalq8ARt1xYxRpJBOeh5LgAEYHKsR6njHK0UgJ764S71C4uIYEt45ZWdYU+7GCchR7DpUFFFGwBRRRQAUUUUAFFFFABWzd61HPpAiRHF3KiRXDkcMqZxg5zk/Ln6VjUVMoKVr9C4zlC9upuWuswQ6VbW6TXlpJCzNILXAE+Txlsgg9uhpZtctpdU1W5CShL23MUYIGQSF689OKwqKz9jC9/67l+2nZLt+hJbztbXUU8eN8Th1z6g5q9qE2m3U091F9pSWYl/JKrtVjyfnzkjOf4RWbRWjim7mak0rGrNqkMn9k7Vk/0JQJMgc4bPHNWYtbtl1LU58Twm7JMM8agyRc56ZHUehrBoqHRi1b+t7mirTX4fgrG9da5BMNLG+7mNnMXkknILOMg8c+3Tt6msrUblLzU7m4iDBJZGdQ3UAmq1FOFOMNhTqymrP8AqwUUUVoZBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABVnT/wDj/i+v9KrVZ0//AI/4vr/SmBbvP+Pt/wAP5VDU15/x9v8Ah/KoaYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGTrn/LD/gX9KKNc/5Yf8C/pRUPcZtW/wDx8x/7wqDVP+Qg/wBB/Kp7f/j5j/3hUGqf8hB/oP5VYipXW6n4Qt7fwJYa5YzTPcOivdxOQVVWYqrLgAgZXBznqK5KvQrXXbG3Tw5aXNzG9lc6c9lforg+UHc4LehBw3Pape2n9aMSdpa7W/VGBrfhWS38WXGkaKktwsMSSlpWUbFKBmZm4VVGepwKoXHhzUrVrbz44Vjus+TcfaojC2M5HmhtgIweCa7bVtQ06817xPp8Go2qvf2kC2135w8pzGqlk8zOBuxjnjIwa5y/lh0zwJFostxBcXs1+bsrbzLKsKBNgyykruJ5wCeMZxR0/ruXb+vkL4i8HnSUs3tJ7dkksI7iYS38G7eQSwRdwLLxxgHPYmsyw8NarqVrHcWtvGIppPKiaa4ji81/RN7Dce3Ga2PEsSazY6Rfafd2bx22lxQTRvdxxyo8edw2MwY+2Ac1fkvLTU/DuiGyt9IuZ7GDyJYb69a2eJgxO5f3qKwPXIyc9fZu136k9jh54Jbad4LiNopY2KujrhlI6gio60vEOoXOqeILu8vkt0uJWHmC1YNHkADggsD065NZtJbDe4UUUUCCiiigAooooAKKKKACiiigB8ML3E6QxDLyMFUZAyT05NTx6bdy3z2aQ/v4929CwG3b1yTxVYEg5HBrpL2/t/sM+pQyobu/hSF0VhuQ9JCR2B2jH1rKpKUWrdfzNacYy+J7fl1+Zi22mXV2qtCsYDttTzJUTefQbiM/hRDpV9cXM1vDbO00IJkj/iABx079a0bW3sRpdtKi2c07M32g3VwyGIA8YUMCRjngGrs95b/27r0kdxFsltGWNlcYc4XgHuetZSrSu0l/V/U1jSi4pt9vxuYF1pt1ZxJJOi+W5Kq8ciupI6jKkjPtT5tIvYIi80SoVUO0ZkXzFHqUzuH5Uyzu2guLfzWd7eKZZWiz8pwRk46ZxVvV7Xzb66vEvLeWCRzIjecCzAnIGz7wPOOR2rRykpJMzUYNNonudDaWw02SwhUNPF87PKFDuScAbj19hWVFZTzXDwqm148797BAmOOScAc8c1r3NzCw0ACZCIUXzAHHyHf39KkdLC71rV5ZXgmcMWtkkm2RyEnk7sj+YzWUak4rXz/M2lThK1vL8jIm0y7gngikiG64x5RV1ZXyccMDjr71LLoeoQJK0tvtMSlnTzF3qoON23Oce+Md617ma1SLQ0V7RGhuCZUglLLHlgeSSfzzj0rJ1W7f+3L6W2nbbJI43xvw6k9MjqKqFSpN6ef5kyp04K78vyM6iiiuk5QooooAKKKKACiiigDqvBXhex8SjUVvrmW3aCNBAyEBfMdtq7sg5GcdMVJo3hG2vLS0N+1xFcSa0NOmRGA2rsycZB+bP4e1VfDl7FaeGfESm5SG4khg8gFwrMwlB+XuSOvFdfeeJtIbS9F1hbmLz5dWiu762VwXjZY9jttHODtz7596pWvr5fn/AMOJ35X8/wAjktG8OWmo+Mb7SZ5J1gtxcFGRgGPl5xkkY7c8VVvNEtrfwVpusI8puLq4lidSRsAXpgYzn8a6Gza30PxPrGuT6jYS2skdwbYQ3KSPM0gO0bFJZevO4DFVJIl1P4b6RZ2l3Yi5gupnkimvYoWUHocOwrLW3yX56/gNb/N/l/mY/h3R7fV49WNy8imy06W6j8sgZdcYByDxz7Vi11nhJEs7rXrO6ubOKWbSpoYy13GI3diuFEm7afzrn77TJ9PCGeS1ffnH2e7imxj12McfjWj6en6sEU6KKKQBRRRQAUUUUAFWdP8A+P8Ai+v9KrVZ0/8A4/4vr/SmBbvP+Pt/w/lUNTXn/H2/4fyqGmAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBk65/yw/4F/SijXP8Alh/wL+lFQ9xm1b/8fMf+8Kg1T/kIP9B/Kp7f/j5j/wB4VPdaabm4aUShc44xViMaitP+xm/57r/3zR/Yzf8APdf++aVgMyitP+xm/wCe6/8AfNH9jN/z3X/vmiwGZRWn/Yzf891/75o/sZv+e6/980WAzKK0/wCxm/57r/3zR/Yzf891/wC+aLAZlFaf9jN/z3X/AL5o/sZv+e6/980WAzKK0/7Gb/nuv/fNH9jN/wA91/75osBmUVp/2M3/AD3X/vmj+xm/57r/AN80WAzKK0/7Gb/nuv8A3zR/Yzf891/75osBmUVp/wBjN/z3X/vmj+xm/wCe6/8AfNFgMyitP+xm/wCe6/8AfNH9jN/z3X/vmiwGZRWn/Yzf891/75o/sZv+e6/980WAzKK0/wCxm/57r/3zR/Yzf891/wC+aLAZlFaf9jN/z3X/AL5o/sZv+e6/980WAzKK0/7Gb/nuv/fNH9jN/wA91/75osBmUVp/2M3/AD3X/vmj+xm/57r/AN80WAzKK0/7Gb/nuv8A3zR/Yzf891/75osBmUVp/wBjN/z3X/vmj+xm/wCe6/8AfNFgMyitP+xm/wCe6/8AfNH9jN/z3X/vmiwGZRWn/Yzf891/75o/sZv+e6/980WAzKK0/wCxm/57r/3zR/Yzf891/wC+aLAZlFaf9jN/z3X/AL5o/sZv+e6/980WAzKK0/7Gb/nuv/fNH9jN/wA91/75osBmUVp/2M3/AD3X/vmj+xm/57r/AN80WAzKK0/7Gb/nuv8A3zR/Yzf891/75osBmVZ0/wD4/wCL6/0q1/Yzf891/wC+akt9MMFwknmq209MUAMvP+Pt/wAP5VDU13/x9P8Ah/KoaYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGTrn/LD/gX9KKNc/5Yf8C/pRUPcZrUUUVYgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMnXP+WH/Av6UUa5/yw/4F/Sioe4zWoooqxBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZOuf8sP+Bf0oo1z/AJYf8C/pRUPcZrUUUVYgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMnXP8Alh/wL+lFGuf8sP8AgX9KKh7jNaiiirEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBk65/yw/wCBf0oo1z/lh/wL+lFQ9xmtRRRViCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKK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*Logical Database Design*

Duties of Contributors

* *Aammbbeerr* produced the data model for all the information in the system.
* *KimShingChong* designed the database. He developed the tables and relationships which formed the database design.
* *ronspringer* designed and created the physical design of the database. He organized files, provided the indexes of primary or foreign keys in tables also he ensured that the entity and referential integrity constraints and security measures are defined and so on.
* *Feliciann* completed the schema refinement by checking for redundancies and anomalies.
* *JasonJay* developed a security plan to eliminate vulnerabilities, isolate sensitive data and respond to suspicious behavior.

APPLICATION FUNCTIONAL SPECIFICATION

**Application Functional Specification**

***Note****: When uplifting the database the client will be given a code, he or she will use that code to log in as the admin of the database. The client is the dental manager. After logging in using the correct ‘CODE’ she would now be the admin of the database.*

The Application interface will do as follows:

* First the client will be presented with the log in screen, where she can log into the database. The login screen contains ‘username’ , ‘password’ and a ‘code’ where spaces are provided for the user to enter each.
* After the client enters the correct username and password, she will be logged in as the admin.
* The admin can then fill in more personal information using the account settings.
* The admin is then prompted to the database home page where she can administer patient into the database.
* The progress within the database will be saved immediately after an entry has been made.
* The dental manager (admin) can also:
* Edit the patient’s information within the database,
* Delete records of patient if deemed useless ,
* Update information to match patient’s current status,
* Sort the patient’s information by date, or alphabetical order,
* And finally search for patient’s records in the database.

FUNCTIONAL REQUIREMENTS

**Functional Requirement**

The client would like the database application to adhere to the following functionalities:

* Input data or information into database
* Edit data or information in the database
* Update and delete records in the database
* Save and store records in database
* Search and sort records in database

APPLICATION PROCESS FLOWCHART

**Flow Chart**

The image below shows the flow chart process in the dental database:

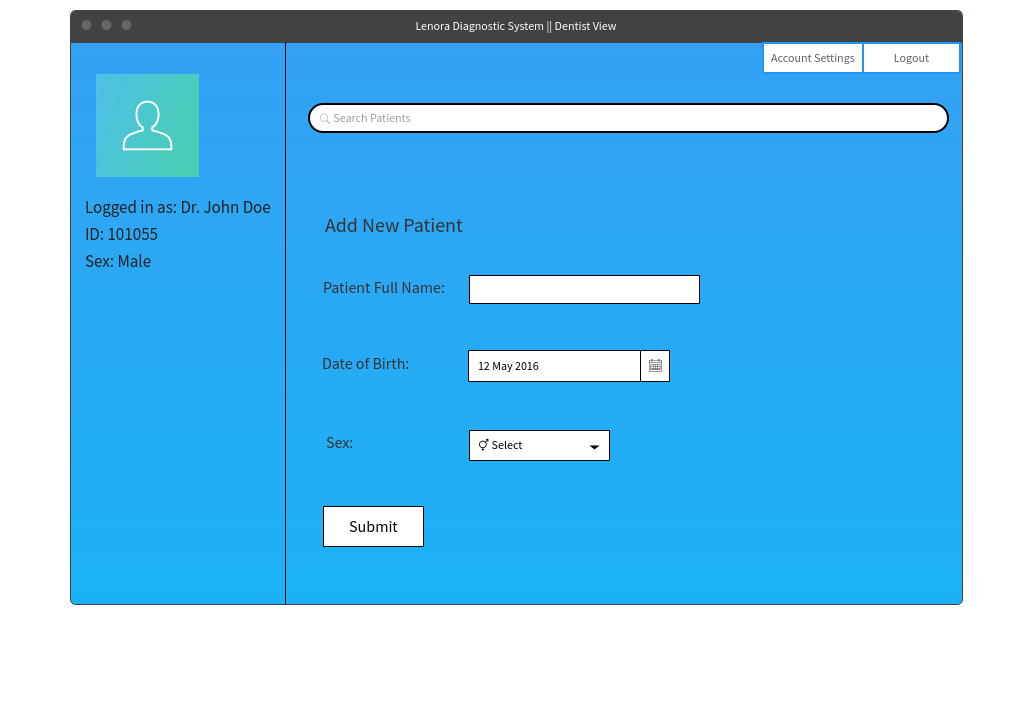
A close up of a map

Description automatically generated

Mock Up Diagrams

**Mockup of Application Interface (Documentation)**

**Home Page:**



**Description:**

The image shown above illustrates a mockup or what we would consider a prototype of the

application interface after the dentist has logged in. This interface would display user

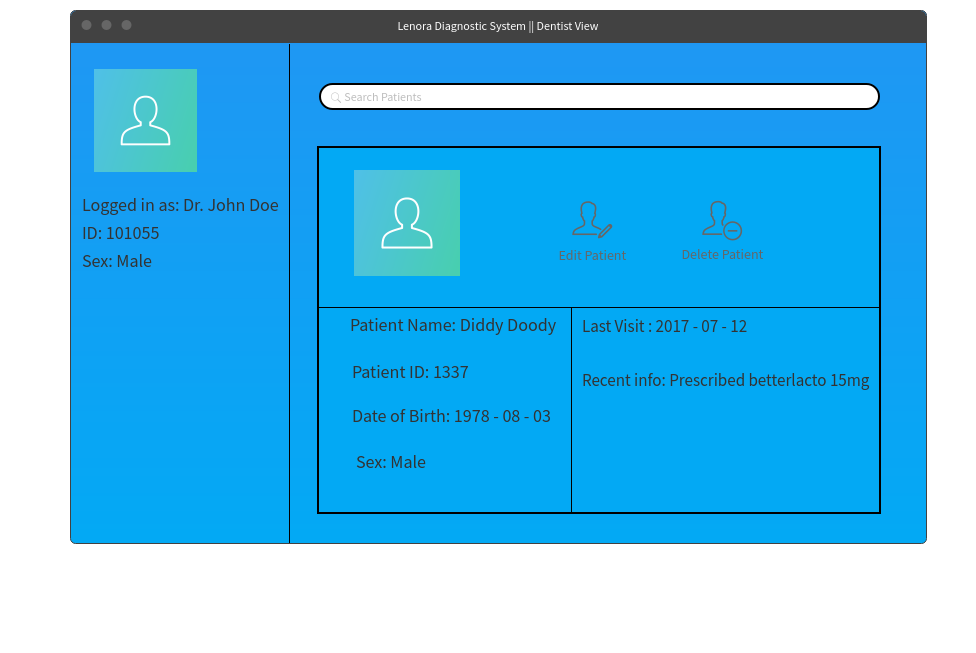
information of the dentist that was just authenticated, a form to add new patients, two buttons

for account controls along with a search bar which gives the user the ability to navigate around

patient records where they could view, modify and delete patients and/or patient data from

the system.

**Patient Record Page:**



**Description:**

This is the page that would be shown to the dentist logged in after that user searches for a

patient. This page displays user information, a search bar to look for other patients, and patient

record information of the patient just that was just searched for along with the edit and delete

button.

GROUP LEADER’S REPORT

**Group Leader’s Report**

Dear Sir,

This letter was documented to inform you on the participation of each group members from the initiation of the project to the 19th of November, 2018.

Each member has contributed more than enough towards the completion of the project; by doing extra research, helping each other out and staying up at late hours to input relevant information concerning the project.

I, Amber Beaton, the group leader would like to thank my fellow members: Ronaldo Springer, Jason Jacobs, Kim Shing Chong and Feliciann Elliot; for their fruitful efforts in making the completion on this project possible.

Yours Truly,

Amber Beaton.

**Contributions Made By Each Member**

|  |  |
| --- | --- |
| **Group Members** | **Contribution Grade** |
| Ronaldo Springer | Excellent |
| Jason Jacobs | Excellent |
| Kim Shing Chong | Excellent |
| Feliciann Elliot | Excellent |
| Amber Beaton | Excellent |

**Group Members**

|  |  |  |
| --- | --- | --- |
|  | **GROUP MEMBERS** | **USI** |
| **GROUP LEADER** | Amber Beaton | 1028554 |
|  | Feliciann Elliot | 1022055 |
|  | Ronaldo Springer | 1025047 |
|  | Kim Shing Chong | 1025719 |
|  | Jason Jacobs | 1028494 |

* *Amber Beaton(Leader) Aammbbeerr*
* *Ronaldo Springer ronspringer*
* *Feliciann Elliot Feliciann*
* *Jason Jay Jacobs JasonJay*
* *Kim Shing Chong KimShingChong*

* Thank you for Reading!
* Be sure to check out our repository.
* Have a nice Day.

Delight Smiles out.