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**Project Description**

Through this project we were able to successfully design and implement from the ground up a database application that would be suitable for a small GP clinic. The database allows the clinic staff to update and query any of the information stored within the database. The application was built using MySQL and PHP.

The database includes the following information:

* Appointment details
  + Date/Time
  + Length of appointment
  + Who was the patient and the clinician
  + Any conditions diagnosed or treatments prescribed at the appointment
* Patient details
  + Name, date of birth, address, gender
  + Information of their emergency contact
* Clinician details
  + Name
  + Weekly hours
  + Formal registration information
* Condition details
  + Name, description
  + Severity of condition diagnosed at an appointment
* Treatment details
  + Name
  + Description
  + Amount, Units, Frequency prescribed at an appointment

We have also created simple interfaces that make it an easy process to complete some of the functions the clinic would perform regularly. This includes selecting all appointments for a patient of the users choice, counting how many conditions each patient has been diagnosed with, finding the sickest person (has the most conditions), delete a patients records and update a patients emergency contact information.

The following changes were made to the scheme since the project proposal was completed:

* Condition name (CName) and Treatment name (TName) were replaced with numerical identifiers as the key in their respective tables and the names were changed to attributes.
* Added a partial key that was missing in our original schema for the emergency contact table (weak entity)
* Changed our mapping of Clinicians to better match techniques for treating sub-classes covered in the course