Spring DB Design

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**Patients Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type and size** | **comments** | **Default value** |
| PatientID | 64 chars string | **unique key**  should allow only numbers and alphanumeric chars | Not null |
| FirstName | 64 chars string | should allow only alphanumeric chars | Not null |
| MiddleName | 64 chars string | should allow only alphanumeric chars | null |
| LastName | 64 chars string | should allow only alphanumeric chars | Not null |
| Gender | 1 char | Options are:  F  M  O | Not null |
| DateOfBirth | Date |  | Not null |
| Email | 320 chars |  | null |
| MobilePhone | 16 chars |  | null |
| HomePhone | 16 chars |  | null |
| Address | ? |  | null |
| Ethnicity | 16 chars |  | null |
| LastUpdated | DateTime |  | Not null |

**Visits Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type and size** | **comments** | **Default value** |
| VisitID | long | **unique key** | Not null |
| PatientID | 64 chars string | Must exist in Patients table | Not null |
| DateTime | datetime |  | Not null |

**Images Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type and size** | **comments** | **Default value** |
| ImageId | long | **unique key** | Not null |
| VisitID | long | Must exist in Visits table | Not null |
| ImageType | int | Enum from 0 to 5  0 - Color  1 - Angio  2 - Red  3 - Blue  4 - Green  5 - UV | Not null |
| DateTime | datetime |  | Not null |
| Image | Binary ? size ? |  | Not null |

Table images:

imageId(unique key) (int)

patientID (from patients) (string)

visitID (unique visits) (int)

imageType (string) (color, etc…)

Timestamp

**Settings Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type and size** | **comments** | **Default value** |
| RetinoSpecID | 16 chars |  | null |
| DBVer | int | Starts from 1, changes whenever there is a structural change in the database | Not null |
| DateTime | datetime |  | Not null |

Open issues:

Images Data in DB or in dir?

Mysql scalability etc?

Ofer check how to store data in png header