**03/06/2024:**

* Procedures Onboarding System is a new spring boot feature need to develop.
* Rename files hierarchy to com.grayopus.procedure from com.gfg.procedure.
* Procedure onboarding system will have
  + Procedures
  + Documents and
  + Checklist
* Procedure entity will have
  + Id
  + Name
  + Description
* Documents entity will have
  + Id
  + Procedure\_id
  + Name
  + Type: why type of document is required as mandatory or optional???
* Checklist
  + Id
  + Document\_id
  + Name of checklist

**04/06/2024:**

* Three entities
  + Procedure
  + Document and
  + Deficiency Checklist
* Already created the flow from controller to repository for Procedures.
* 3.0.7 tried last for spring boot starter parent.

**05/06/2024:**

* Unsupported class file major version 61 is coming so searched in google.
* Updated dependency spring-test version being 5.0.4.RELEASE, but still crying.
* Swagger ui is used for curl.
* No bidirectional are required unidirectional will do.
* Since you have id’s of procedure in document table and id’s of document in checklist table.
* Coding of all 3 entities and related classes is done.
* After full days struggle still not able to run application.
* Only plus is finished coding of complete feature.

**06/06/2024:**

* Bidirectional relationship: Need to implement
* one to many between
  + Procedures and Documents
  + Document and DeficiencyChecks and
* Many to one between
  + Documents and procedures
  + DeficiencyChecks and Documents
* Relationships are done now.
* I need to try for compilation and running now.
* Compiling successfully, but struggles to run the server.
* When I am giving as 2.3.12.RELEASE in spring boot starter parent crying for spring core 5.2.25.RELEASE and spring-bean 4.3.8.RELEASE
* When I am giving as 2.4.2 in spring boot starter parent crying for
* Caused by: java.lang.ClassNotFoundException: org.springframework.core.metrics.ApplicationStartu when running the server only as in former case too.
* In the evening again new thing on run coming as build success, but not running.
* Hope leads to success after sometime.
* Changing java version from 11 to 1.8 is not fetching anything unlike.
* So reverted again.

**07/06/2024:**

* Server not running is the main funda today.
* Was coming as build success, but not running upon run.
* Tables are getting populated, but procedures table isn’t because Error no. 150 means a foreign key constraint failure. You are probably creating this table before the table the foreign key depends on (table keywords). Create that table first and it should work fine.
* So what to do now???
* One thing I can do is have unidirectional column which serves the purpose.
* If though that way of removing bidirectional also procedures table isn’t getting created.
* So what to do now.
* Procedures entity will only have one back reference to document entity.
* Documents will have one managed reference to procedures table and one back reference to DeficiencyChecks.
* DeficiencyChecks will only have managed reference to documents entity.
* Managed reference will only have @joincolumn.
* Desc was causing all tables for procedures table to be created.
* So changed it to description which lead to successful creation of procedures table.
* Bidirectional is troubling a lot so first try unidirectional first.
* Even bidirectional is done now.
* This is executing I believe.
* Is a success.

**08/06/2024:**

* Need to update such that documents are included in procedure and deficiency checks into documents.
* Update procedures such created documents are included in.
* Update documents such that deficiency checks are included in.
* Now this is the main task in hand.
* Did not understand:
  + A procedure can have multiple documents and then one document can have many deficiency list. So what is deficiency list here???