



GUI

Buttons == Functions + User Input

Buttons:

- Finish -> Save to DB-> go to Book Selection
- Save -> Save to DB
- Delete -> Delete from DB after warning
- Hide -> Hides Notes Window
- SQ3R -> Toggles SQ3R text

Notes (Window) == UI/User Input

Notes (Window):

- Resizable Scrollable Text
- Scrollable line numbers

Content (Window) == Read Only, Book Text

Content (Window):

- Resizable Scrollable Text -> Content of Book

Book (Object) == Organised Content/Data

Book:

- Content == Text
- Author == Text
- Title == Text

Notes (Note Object) == Organised User

Generated Content/Data

Notes (Note Object):

- Content == Text
- Book Title == Text
- SQ3R = True/False

NOTE/BOOK SERVER

Main Functions:

Insert_Notes:POST
 ->(notes) ->void
 # takes in the notes that need to be inserted into the Note Collection

Insert_Books:POST
 ->(book) ->void
 # takes in the book that needs to be inserted into the Book Collection

Update_Notes:PUT
 ->(id,notes) ->void
 # takes in the id of a note and Overwrite the notes at id with object 'notes'

Delete_Notes:DELETE
 ->(id) ->void
 # takes in the id of a note and removes it from the Notes Collection

Delete_Books:DELETE
 ->(id) ->void
 # takes in the id of a book and removes it from the Book Collection

Delete_Library:DELETE
 ->() ->void
 # takes in no args and drops the Book Collection (Library)

Get_Notes:GET
 ->(id) -> Document = dict{}
 # Retrieves the notes at specified id from Note Collection

Get_Books:GET
 ->(id) -> Document = dict{}
 # Retrieves the Book at specified id from Book Collection

Get_Library:GET
 ->() ->array[] of Document = dict{}
 # takes in no args and returns all documents in Book Collection as an array

Helper Functions:

connect: connects to mdb server
 Used by all, URI= localhost:27017 for non deployment purposes

note_exists: check if notes exist for a certain book
 Used by Update_Notes

Delete_note-library:DELETE
 #DO NOT USE ONLY USED IN TESTING