WEB PROGRAMMING PROJECT

CRUD API - Ruby On Rails

Group - 10

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Source Code

STEPS:

1. Create the application:

rails new books app --api cd FRIENDS

2. Setup the database: We are using sqlite3

gem 'sqlite3'

```
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```

3. We use the MVC (Model View Controller) Architecture here. We create a model Book with the given attributes.

```
Book[Book_ID, Book_Title, Author, Publishers, Year]
```

PS. we will have another id element in the database. That is used to perform the CRUD operations. Book ID is a different attribute

Run the following command to create a model:

```
rails g model Book Book ID Book Title Author Year Publishers
```

The following files will be created on running the command:

```
a. app/models/book.rb
b. db/migrate/[date_time]_create_books.rb
```

This is the final schema: (In db/schema.rb)

```
ActiveRecord::Schema.define(version: 2021_11_15_151241) do

create_table "books", force: :cascade do |t|

t.integer "Book_ID"

t.string "Book_Title"

t.string "Author"

t.string "Publishers"

t.integer "Year"

t.datetime "created_at", precision: 6, null: false

t.datetime "updated_at", precision: 6, null: false

end

end

end
```

4. Now that we created the database with appropriate columns, we migrate it to the actual database using the following command:

```
rails db:migrate
```

5. Make an api folder in the app/controllers folder with the following contents:

v1/books_controller.rb

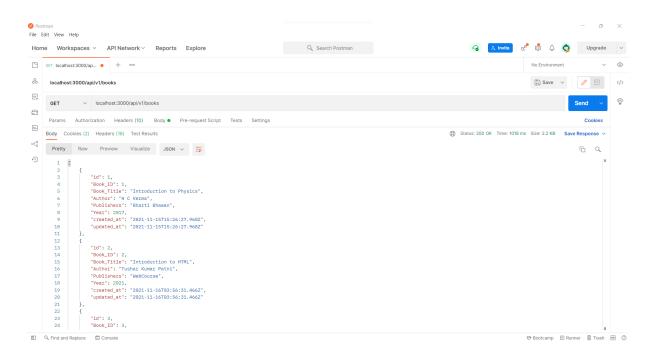
```
home_controller/b U books_controller/b V 2027117575241_create_booksrb U routesch U 2027117575241_create_booksrb U 2027
```

6. Edit the routes.rb file to update the versions. The versions are made to made the API more scalable, config/routes.rb

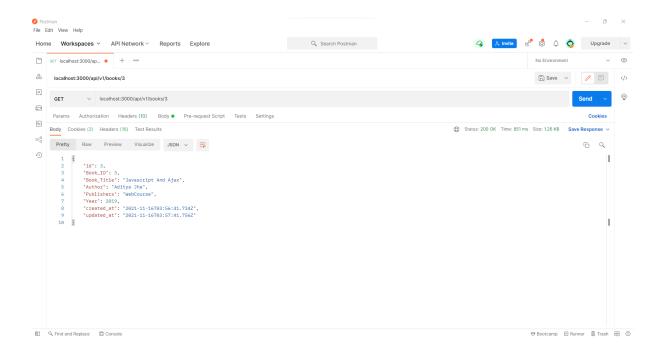
7. The API is ready. Run the app using the following command:

rails s

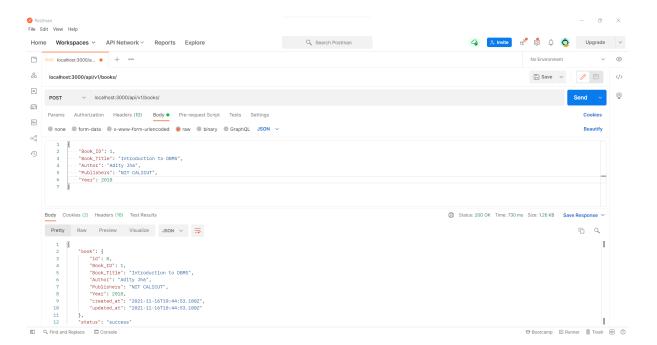
- 8. POSTMAN SCREENSHOTS (CRUD OPERATIONS)
 - 1. GET ALL



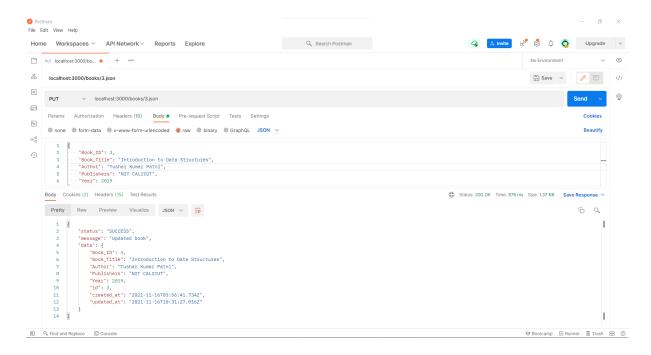
2. GET BY ID



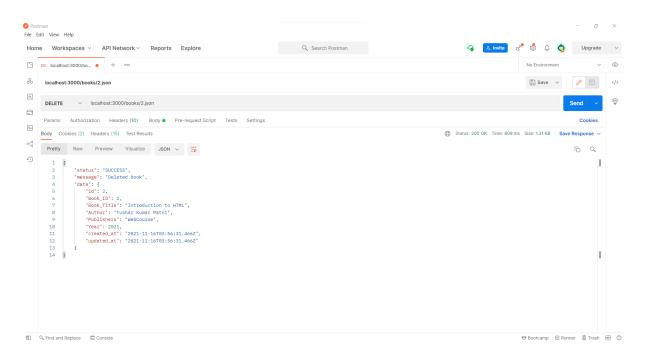
3. POST



4. PUT (UPDATE)



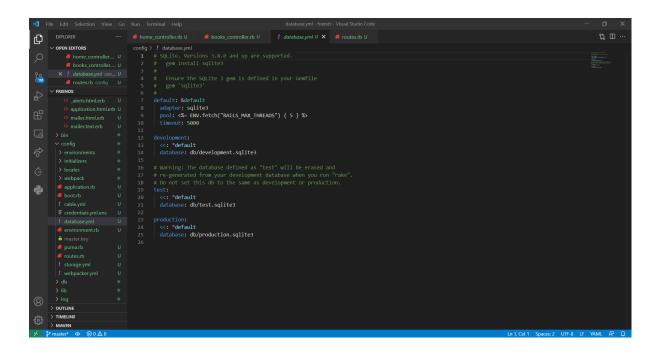
5. DELETE



INDIVIDUAL CONTRIBUTIONS OF GROUP MEMBERS

Tushar Kumar Patni :-

Home & Book controller code function was written in this part as well as the db entities were done.



Aditya Jha:-

Front End of the app as well as the table modification in format was done in this part & a form for the model was made in a well manner with the help of bootstrap.

Ritik Gautam :-

Ruby Installation and database installation with front-end of the header was done rest all are available i.e. was inbuilt.

TOKEN OF THANKS

We would like to thank Mrs Suvidha ks for her support for doing this project.