Invoice Tracker

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Overview

An application to make invoices easier to be tracked

Plan & Workflow

1- Define used tools and prepare workspace.

Used tools: Git, spring boot, mysql, Angular Framework (Frontend side)

2- Planning Stage

- Provide a DB Design - EMR
- Define Functionalities flow - Flowchart for each functionality
- Define required web APIs

3- Implementation Process (For both backend and frontend sides)

- Setup workspace environment
- Login and Signup Views -handle all functionalities
    - Login
    - Signup
    - Logout
    - Security issues ! JWT
- Paginated and Sorted Dashboard (10/page)
- Start implementing main functionalities
    - Add Invoices
    - edit/replaces invoices
    - retrieve/preview invoice/s
    - Delete invoice/invoices

4- Add Users Roles and Security checks for both frontend-backend sides.

5- Create a presentation and describe the whole system

Notes:

- Write Clean Code, follow three tier architecture, and keep the project well organized.
- Keep checking the compatibility between written code and document requirements.
- Exception will be handled during coding process
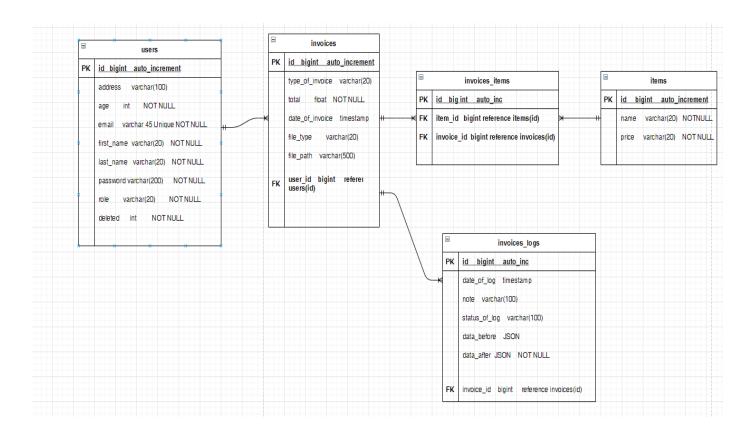- Keep your code documented while writing code

Project Design

- Tools used
  - Frontend side - Angular 10
  - Backend side   - Spring Boot
  - MySql hosted on a docker container.

- Notes
  - Three Tier Architecture in Spring boot is followed.
  - MySql port was mapped to a custom port
  - Bootstrap (pre built components) in Angular are used.

- Database Design and Relations

- Web APIs

User APIs

path	Request type	notes
/users/signup	POST	Register new User
/users/login	POST	Sign in to user account
/users/logged-in	POST	Get logged in user info
/users	GET	Get all users, used by superuser
/users/id	GET	Retrieve a user with id, used by superuser
/users/id	PUT	Edit a user with id, used by superuser
/users/delete/id	PUT	Delete a user with id, used by superuser

Invoices API's

path	Request type	notes
/invoices	GET	Get all invoices
/invoices/preview/id	GET	Get invoice with id
/invoices/preview/logs/id	GET	Get all logs of specific invoice
/invoices/User_id	GET	Get an invoice of User(id)
/invoices	POST	Add an invoice
/invoices/id	PUT	Edit invoice with id
/invoices/delete/id	DELETE	Delete invoice with ID

Items API's

path	Request type	notes
/items	GET	Get all items
/items/id	GET	Get item with id
/items	POST	Add item
/items/id	PUT	Edit item with id
/items/id	DELETE	Delete item with id