Pension management system

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INTRODUCTION

- **The purpose of this program is to develop a system that would keep records of employees or pensioners data including their pension plan, allowances, gratuity, taxes, net pay, rent pay and also calculate the pay of the pensioners taking into consideration the employees/pensioner's data.**

FEATURES OF THIS PROJECT

- Create/applicant
- Edit/applicant
- checkStatus/{id}
- getapplicant/{id}
- checkBalance/{id}
- delete/applicant/{id}
- Get/applicants
- approve/{id}
- issuePension
- loadPension

A Small brief about this project

- Create a class named pension.java in pension management system project
- Create a controller class named pensioncontroller and service class named as pensionservice
- Write all entity in pension class
- Write get,post,put,delete calls in controller and call them in service class
- Entend repository
- Add all details needed for database in application.properties.
- Add all necessary dependencies in pom.xml

Continue..

- POST
  ```
  http://localhost:8081/approve/107
- POST
  ```
  http://localhost:8081/issuePension
- POST
  ```
  http://localhost:8081/loadPension
- GET
  ```
  http://localhost:8081/checkBalance/107

Continue..

- GET
  ```
  http://localhost:8081/checkStatus/107
- GET
  ```
  http://localhost:8081/checkApplications
- GET
  ```
  http://localhost:8081/get/applicant
- DELETE
  ```
  http://localhost:8081/delete/applicant/101
- ```

Annotations

- @Autowired: Spring provides annotation-based auto-wiring by providing @Autowired annotation. It is used to autowire spring bean on setter methods, instance variable, and constructor.
- @SpringBootApplication: It is a combination of three annotations @EnableAutoConfiguration, @ComponentScan, and @Configuration.
- @RequestMapping: It is used to map the web requests. It has many optional elements like consumes, header, method, name, params, path, produces, and value. We use it with the class as well as the method.

Annotations

- @GetMapping: It maps the HTTP GET requests on the specific handler method.
- @PostMapping: It maps the HTTP POST requests on the specific handler method.
- @PutMapping: It maps the HTTP PUT requests on the specific handler method
- @DeleteMapping: It maps the HTTP DELETE requests on the specific handler method
- @RequestBody: It is used to bind HTTP request with an object in a method parameter. Internally it uses HTTP MessageConverters to convert the body of the request.

Continue...

- @ResponseBody: It binds the method return value to the response body. It tells the Spring Boot Framework to serialize a return an object into JSON and XML format.
- @PathVariable: It is used to extract the values from the URI. It is most suitable for the RESTful web service, where the URL contains a path variable. We can define multiple @PathVariable in a method.
- @RequestParam: It is used to extract the query parameters form the URL. It is also known as a query parameter.

Advantages

- Herewe can create edit delete applicants
- We can isssue pension and load pension
- We can do it in digital without using effort
- Time saving

conclusion

- **This project focuses on developing and implementing a web-based pension fund management information system that automates the pensioners' registration process, an integrated platform for selecting preferred PFA will enable storage, manipulation, retrieval, retention and viewing of records, documents of employee/pensioner's information.**

THANK YOU