PENSION MANAGEMENT SYSTEM

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Project Briefing

- The main objective of pension management system is to manage the pension activity.

- Admin can login and check the applicant and status, and applicants can check their application.

- The pension management system which helps to manage the activity of pensions like applicants, applicant's details, balance, manage applications and manage the record of pensions issued.

- The use of this project is to reduce the manual work, document management work in pension offices to increase security and save time.

Tools Used ✂

- Apache Maven

- Java

- Docker

- MySQL DB

- Postman

- Spring-boot

- Maven is a project management and comprehension tool that provides developers a complete build lifecycle framework. Development team can automate the project's build infrastructure in almost no time as Maven uses a standard directory layout and a default build lifecycle

- In case of multiple development team's environment, Maven can set-up the way to work as per standards in a very short time. As most of the project setups are simple and reusable, Maven makes life of developer easy while creating reports, checks, build and testing automation setups.

- Docker is a software platform that allows you to build, test, and deploy applications quickly. Docker packages software into standardized units called containers that have everything the software needs to run including libraries, system tools, code, and runtime.

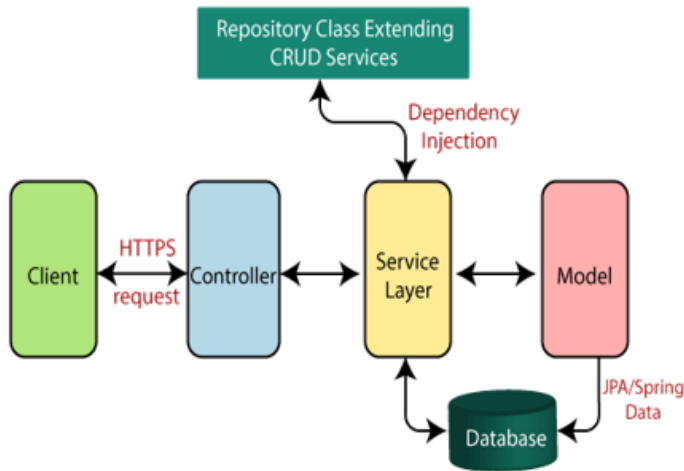- Using Docker, you can quickly deploy and scale applications into any environment and know your code will run.

Java is a class-based, object-oriented programming language and is designed to have as few implementation dependencies as possible.

A general-purpose programming language made for developers to write once run anywhere that is compiled Java code can run on all platforms that support Java.

Spring Boot flow architecture

- Spring Boot is an open-source Java based framework used to create a micro service.

- It is developed by Pivotal Team and is used to build stand-alone and production ready spring applications.

Spring Boot Main Components

- **Spring Boot Starters**- combine a group of common or related dependencies into single dependency

- **Spring Boot Autoconfiguration**- reduce the Spring Configuration

- **Spring Boot CLI**- run and test Spring Boot applications from command prompt

- **Spring Boot Actuator**- provides Endpoints and Metrics

- MySQL is a relational database management system (RDBMS) developed by Oracle that is based on structured query language (SQL).

- A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or a place to hold the vast amounts of information in a corporate network.

- MySQL is widely compatible
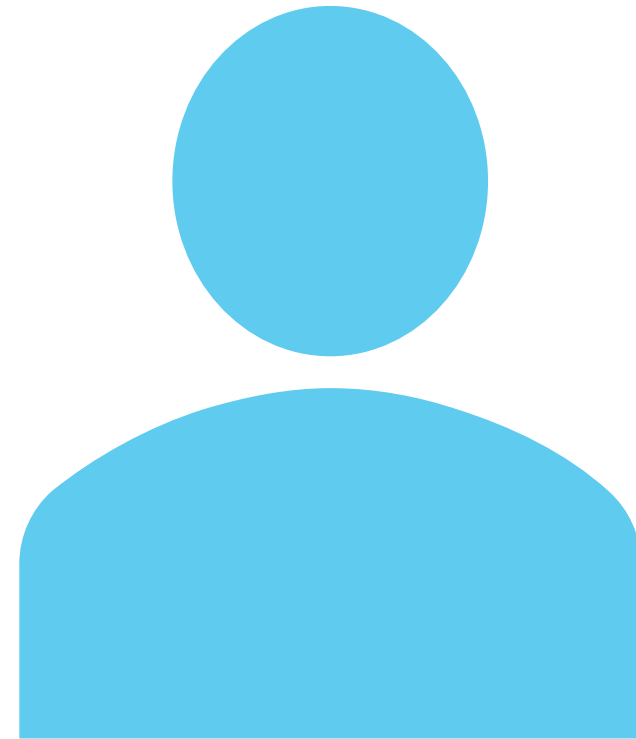
- MySQL is open-source and easy to use.

- Postman is an API platform for building and using APIs.
- Postman simplifies each step of the API lifecycle and streamlines collaboration so you can create better APIs—faster.

Use Cases

The use cases for
Pension management system are:

- Admin
- User/Applicant
- Controller

Admin

Admins are the first end users of the Pension management system, who can perform the following operations:

- Login with their credentials.
- Check all the applicant's status and details list.
- Can check individual applicant's details.
- View the balance, pension status etc.
- Can issue the pension.

Applicant's

Users can perform the following operations in the Pension management system are:

- Login with their credentials
- Check their application.
- Check their status and balance.

Controller

Controller is the main actor who will be responsible to manage both the admin and applicants. The operations performed by controller are:

- Can add/delete/update the applicant.

- Can add/delete/update a pension.

- Can view the list of applicant.

- Can view the list of pensions issued.

- Can view the application.

- Can get the balance.

Applications

The uses of this project is to-

- Reduce the manual work.

- Easy to understand.

- Reduce the document management work.

- It will save time.