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ICF Next

ICF Next, Inc. ("ICF NEXT") is a global marketing company. We provide marketing and communications capabilities to our customers. Over the years, our company has built and integrated a set of best-in-class marketing and communications through different agencies and consultancies. ICF NEXT brings organizations closer to the people they serve. Our focus in on the insights, creativity and technology that improve the interaction with clients and motivates meaningful action.

With a passion for marketing and communication, ICF NEXT knows when and how to accelerate the adoption of technologies and techniques that bring you closer to your customer. As voice search, artificial intelligence, and virtual and augmented reality are disrupting nearly every industry, we help organizations to stay one step ahead by orchestrating the conversations and collaborations that produce innovation. With over 1,700 staff members and more than 15 global offices, we are a global strategic partner for engagement and transformation. For more information about our company, visit www.icf.com/next.

Create a Spring boot + Hibernate rest API that meets the following conditions

- Create CRUD screens for the below entities and use the APIs as described below to interact between front end and backend.
- Create REST APIs expose CRUD operations on following entities
- Employee [ID, First Name, Last Name, Employment ID, Start Date, Designation, Department, End date, Status, DOB, Reporting Manager, gender, blood group, address]
    - Dependants [First Name, Last Name, Gender, DOB, Relationship]
    - Educational qualification [Type, Start Date, End Date, Type, Institution, Address, Percentage]
- Secure the API's to respond only when it contains a security header whose value is controlled by configuration
- Log the IP address, Time and Browser details explicitly when operations that modify the repository are called
- Define the DB schema using DDL and also include some test entries
- Write 3 Junit tests
- Make use of IOC and segregate the code with proper design patterns
- Use maven as the build tool
- Make use of Bean Validation to ensure data consistency
- Index Employees and Dependants
- Create an endpoint to search employees and dependants via Elastic Search
- Add simple front end and backend validations for the inputs.

Please share the code via a public repository, github/bitbucket/gitlap etc.

Thanks,
ICF