

Project description

Diabetes management REST API with scalable accessibility regarding the roles of the user(patient, doctor, chief doctor).

- Keeps track of patients' glucose levels
- Daily consumption of carbohydrates
- Medication intake

Enhancements and refactors

- Refactored Verify method
 - Decrease method size
 - Extend reusability
 - Eliminate code duplication
 - Achieve single responsibility
 - Extend testability
- Refactored methods at repository
 - Logger added
 - Removed Null return
 - Appropriate messages during exceptions

- Pagination method added
 - Increase performance
 - Unnecessary load
- Created DTO for every entity
- Created Mappers for the DTOs and entities
 - Model mapper
- Unit tests for the mappers

- Created service Layer for the patient resource
 - Extracted logic from the endpoints
 - Surround with try catch and throw appropriate exception
 - Logger added
- Migration to cloud
 - Created EC2 instance
 - Installed java
 - Created S3 bucket
 - Uploaded the executable JAR created by Shade plugin
 - Created RDS service
 - Create my db
 - Give access to EC2 and RDS through security group

- Smaller refactors
 - Remove unused imports
 - Trim unnecessary spaces and lines
 - Rename variables and methods with proper names

Ideas for the future

- Add more Unit tests
- Enhanced authentication
- API improvements
- Error handling

Expected Career

- Continue to grow as a web developer
- Be part of a large company
- Utilize new technologies like AWS