Length Conversion MiniProject

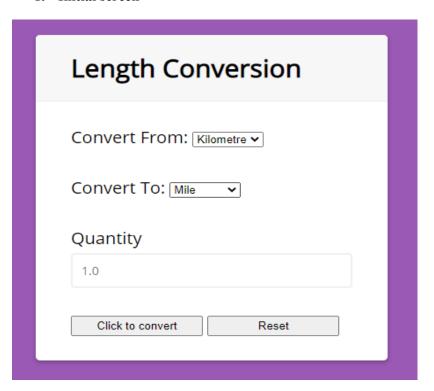
- The Project consists of UI which allows users to select values for 'From' and 'To' for Length conversion along with the quantity.
- The Users select the value and clicks on 'Click to convert' button and the result is displayed in the new window.
- The UI is developed using HTML5, CSS and Javascript
- The Back-end logic consists of 4 Micro services
 - 1. Length-multiple-service: Contains logic to connect to MySQL database using Spring Data JPA and retrieve values from the same.
 - 2. Length-conversion-service: Calls Length-multiple-service to retrieve the value of Conversion Multiple and calculates the actual value and returns to the User
 - 3. Netflix-eureka-naming-server: Both Length-multiple-service and Length-conversion-service registers with the Naming Server and is used for monitoring the same.
 - 4. Ribbon Client is used for Load Balancing between multiple instances of Length-multiple-service
 - 5. Zuul API Gateway is used for Logging.
- MySQL database contains the required Table.
- Server used is Tomcat and iDE is Spring Tool Suite

Languages/Technologies Used:

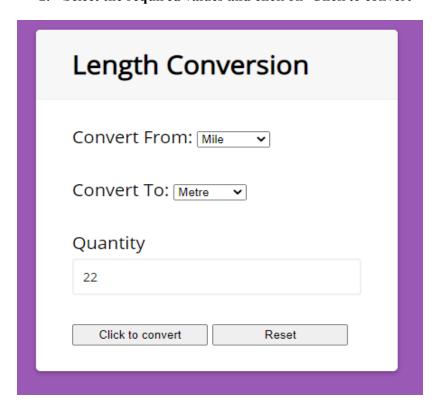
- UI: HTML5, CSS, JavaScript
- Backend: Java, REST Web services, SpringBoot, Spring Data JPA, Microservices
- Database: MySQLServer : Tomcat
- IDE : Spring Tool Suite
- Microservices:
 - o Feign Client
 - o Netflix Eureka Naming Server
 - o Ribbon Client
 - o Zuul API Gateway

Screenshots:

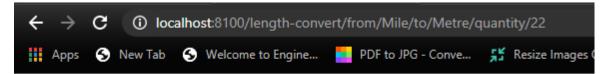
1. Initial screen



2. Select the required values and click on 'Click to convert'

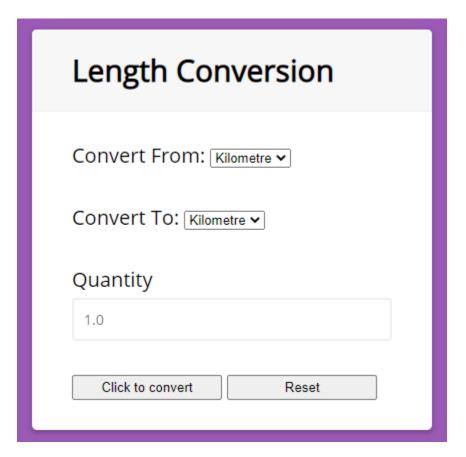


3. The required result is displayed in the browser

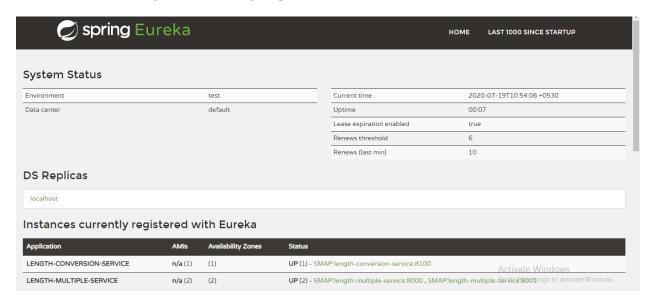


The value in Metre is 35405.4800

4. Click back and click on 'Reset' button to select new values.



5. Eureka naming server running on port 8761



6. Database Table

	id	convert_from	convert_to	conversion_multiple
•	1	Kilometre	Mile	0.6200
	2	Metre	Foot	3.2808
	3	Kilometre	Metre	1000.0000
	4	Kilometre	Foot	3280.8400
	5	Metre	Kilometre	0.0010
	6	Metre	Mile	0.0006
	7	Mile	Kilometre	1.6093
gth_multiple 1 ×				