Introduction

Kredinbizde is an online credit site designed to provide various credit services to users. It integrates with Akbank services via Feign for credit-related operations and utilizes RabbitMQ for notifications. The application is designed to be scalable and maintainable, with features like service registry and a gateway service to ensure efficient communication and routing.

Features

User Management:

Allows users to register, login, and manage their profiles.

Credit Services:

Provides various credit-related services such as loan applications, campaigns, etc.

Integration with Banks:

Integrates with Akbank services and Garantibank serives for credit-related operations.

Notification Service:

Sends notifications to users using RabbitMQ with various ways like email, sms, mobile notification.

Service Registry:

Registers services for easy discovery and access.

Gateway Service:

Routes incoming requests to appropriate services efficiently.

Architecture

The architecture of Kredinbizde follows a microservices-based approach, utilizing various services for different functionalities:

- Kredinbizde Service: Handles credit-related operations such as loan applications, campaigns, etc.
- Akbank Service: Akbank service deals with bank operations and connects with Kredinbizde Service.
- Notification Service: Sends notifications to users.
- Service Registry: Registers and manages services for easy discovery.
- Gateway Service: Routes incoming requests to appropriate services.
- -Garantibank Service: Garantibank service deals with bank operations and connects with Kredinbizde Service
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Technologies Used

Spring Boot: For building microservices.

Spring Cloud Netflix: For service discovery (Eureka) and API gateway .

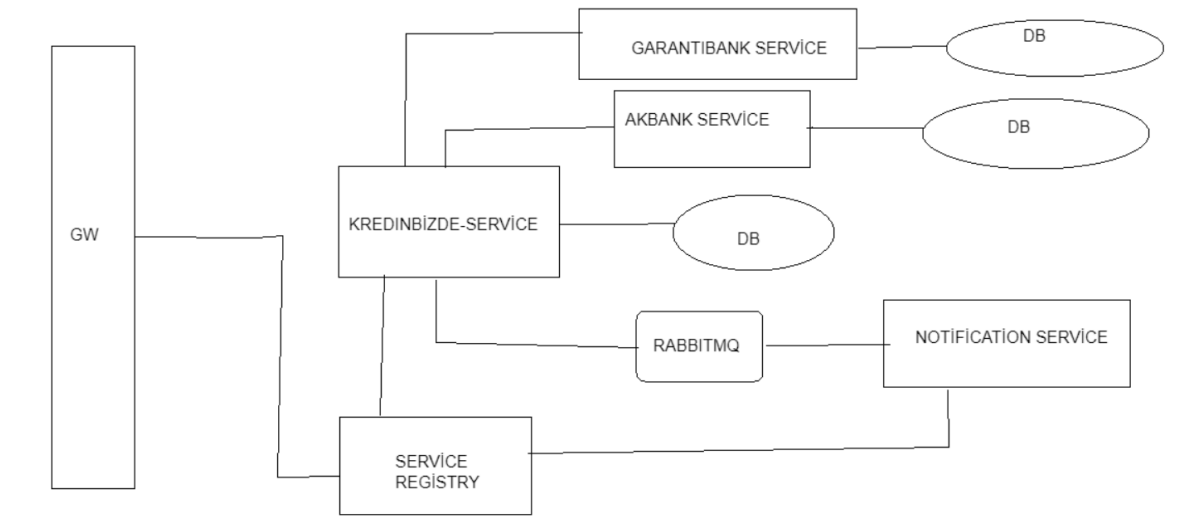
Feign: For declarative REST client.

RabbitMQ: For asynchronous communication and messaging.

PostgreSQL: Database for storing application data.

JUnit and Mockito: For unit and integration testing.

Docker: For containerization and deployment.



API Documentation

Detailed API documentation for each service is written below.

Akbank Application API:

Create Application:

- URL: /api/akbank/v1/applications
- Method: POST
- Description: Create a new application in the Akbank system.
- Request Body:

{

"propertyName": "string",

"propertyValue": "string"

}

Response:

- HTTP Status: 200 OK
- Body: Returns the created application details.

Get All Applications:

- URL: /api/akbank/v1/applications
- Method: GET
- Description: Get a list of all applications in the Akbank system.
- Response:
- HTTP Status: 200 OK
- Body: Returns a list of application details.

Kredinbizde Application API:

Kredinbizde Application API

Create Application:

- URL: /api/applications
- Method: POST
- Description: Create a new application in the Kredinbizde system.
- Request Body:

{

"propertyName": "string",

"propertyValue": "string"

}

Response:

- HTTP Status: 201 Created
- Body: Returns the created application details.

Create User:

- URL: /api/users
- Method: POST
- Description: Create a new user.
- Request Body:

{

"name": "string",

"email": "string",

"password": "string"

}

Response:

- HTTP Status: 201 Created
- Body: Returns the created user details.

Get All Users:

- URL: /api/users
- Method: GET
- Description: Get a list of all users.

Response:

- HTTP Status: 200 OK
- Body: Returns a list of user details.

Get User by Email:

- URL: /api/users/{email}
- Method: GET
- Description: Get user details by email.

Path Parameters:

- email: The email of the user to retrieve.
- Response:
- HTTP Status: 200 OK
- Body: Returns the user details.

Update User:

- URL: /api/users/{email}
- Method: PUT
- Description: Update user details by email.

Path Parameters:

- email: The email of the user to update.

Request Body:

{

"name": "string",

"email": "string",

"password": "string"

}

Response:

- HTTP Status: 200 OK
- Body: Returns the updated user details.

Kredinbizde Campaign API:

Get All Campaigns:

- URL: /campaigns
- Method: GET
- Description: Get a list of all campaigns ordered by date.

Response:

- HTTP Status: 200 OK
- Body: Returns a list of campaign details.

Kredinbizde Credit Card API:

Get All Credit Cards:

- URL: /creditcards
- Method: GET
- Description: Get a list of all credit cards.

Response:

- HTTP Status: 200 OK
- Body: Returns a list of credit card details.

Garantibank Application API:

Create Application:

- URL: /api/garantibank/v1/applications
- Method: POST
- Description: Create a new application in the Garantibank system.

Request Body:

```
{
  "propertyName": "string",
  "propertyValue": "string"
}
```

Response:

- HTTP Status: 200 OK
- Body: Returns the created application details.

Get All Applications:

- URL: /api/garantibank/v1/applications
- Method: GET
- Description: Get a list of all applications in the Garantibank system.

Response:

- HTTP Status: 200 OK
- Body: Returns a list of application details.