### \*\*Chapter 3: Setting Up Cashfree Account\*\*

In this chapter, we will walk through creating a Cashfree merchant account, accessing the necessary API keys, and understanding the Cashfree dashboard.

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#### \*\*Topic 1: Creating a Cashfree Merchant Account\*\*

To integrate the Cashfree payment gateway with your Spring Boot application, you first need to register for a Cashfree merchant account.

1. \*\*Register for a Cashfree Account:\*\*

- Visit the [Cashfree Signup Page](https://www.cashfree.com/signup).

- Enter the required business details (e.g., business name, email address, and phone number).

- Set up your password and complete the registration process.

2. \*\*Verify Your Account:\*\*

- After registering, Cashfree will send a verification email. Click the link in the email to verify your account.

- Complete the KYC process if you're setting up for live transactions (required to enable live payment processing).

3. \*\*Sandbox Environment vs Live Environment:\*\*

- \*\*Sandbox Environment:\*\* For testing purposes, Cashfree provides a sandbox environment where you can simulate payments without real money transactions.

- \*\*Live Environment:\*\* Once testing is complete, you can switch to the live environment to process real payments.

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#### \*\*Topic 2: Getting Access to API Keys\*\*

To interact with the Cashfree API, you'll need your \*\*App ID\*\* and \*\*Secret Key\*\*. These credentials are required for every API call to authenticate your requests.

1. \*\*Access Your API Keys:\*\*

- Log in to your Cashfree dashboard: [Cashfree Dashboard](https://merchant.cashfree.com/).

- On the sidebar, go to \*\*API Keys\*\* (under the "Settings" or "Developers" section).

- You will find your \*\*App ID\*\* and \*\*Secret Key\*\* for both the \*\*Sandbox\*\* and \*\*Live\*\* environments.

- Copy these keys for future use in your Spring Boot application.

2. \*\*Environment URLs:\*\*

- \*\*Sandbox Base URL:\*\* `https://test.cashfree.com/api/v2/`

- \*\*Live Base URL:\*\* `https://api.cashfree.com/api/v2/`

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#### \*\*Topic 3: Overview of Cashfree Dashboard\*\*

Once you've set up your account, the dashboard is where you can manage all aspects of your payment gateway, from viewing transactions to managing payouts.

1. \*\*Dashboard Features:\*\*

- \*\*Home:\*\* Quick view of recent transactions and account summary.

- \*\*Transactions:\*\* Detailed view of payments made through the platform.

- \*\*Refunds:\*\* View and manage refunds initiated through your business.

- \*\*Payouts:\*\* Disburse funds to vendors, partners, or customers.

- \*\*API Keys:\*\* Manage your API credentials for both sandbox and live environments.

- \*\*Webhook Settings:\*\* Configure endpoints for real-time payment status updates.

2. \*\*Sandbox vs Live Dashboard:\*\*

- You can toggle between \*\*Sandbox\*\* and \*\*Live\*\* environments within the dashboard. In \*\*Sandbox\*\*, all transactions are test transactions, while \*\*Live\*\* handles real transactions.

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#### \*\*Example: Setting up API Keys in Spring Boot\*\*

You’ll need to configure the \*\*App ID\*\* and \*\*Secret Key\*\* in your Spring Boot application to start making API calls to Cashfree.

1. \*\*Add API Keys to `application.properties`:\*\*

- Open your `src/main/resources/application.properties` file and add the following configuration:

```properties

cashfree.appId=your\_app\_id\_here

cashfree.secretKey=your\_secret\_key\_here

cashfree.baseUrl=https://test.cashfree.com/api/v2/

```

2. \*\*Creating a Configuration Class:\*\*

- Create a class to load these properties in Spring Boot.

```java

package com.example.paymentgateway.config;

import org.springframework.beans.factory.annotation.Value;

import org.springframework.context.annotation.Configuration;

@Configuration

public class CashfreeConfig {

@Value("${cashfree.appId}")

private String appId;

@Value("${cashfree.secretKey}")

private String secretKey;

@Value("${cashfree.baseUrl}")

private String baseUrl;

public String getAppId() {

return appId;

}

public String getSecretKey() {

return secretKey;

}

public String getBaseUrl() {

return baseUrl;

}

}

```

3. \*\*Using the Configuration in the Service:\*\*

- You can now inject the `CashfreeConfig` class into your services to make API calls.

```java

@Service

public class PaymentService {

private final CashfreeConfig cashfreeConfig;

@Autowired

public PaymentService(CashfreeConfig cashfreeConfig) {

this.cashfreeConfig = cashfreeConfig;

}

public String createPayment() {

String appId = cashfreeConfig.getAppId();

String secretKey = cashfreeConfig.getSecretKey();

String baseUrl = cashfreeConfig.getBaseUrl();

// Use these values to create API requests to Cashfree

// Make the first API call to create a payment

return "Payment created with Cashfree";

}

}

```

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#### \*\*What We’ve Covered So Far:\*\*

1. \*\*Created a Cashfree account\*\* and accessed the API keys for both sandbox and live environments.

2. \*\*Configured API keys in Spring Boot\*\* using the `application.properties` and a configuration class.

3. \*\*Explored the Cashfree dashboard\*\* for managing transactions and payouts.