

Spring REST API - Real Time Project



API Requirements - Refresher

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From the Boss

Create a REST API for the Customer Relationship Management (CRM) system.

REST clients should be able to

- Get a list of customers
- Get a single customer by id
- Add a new customer
- Update a customer
- Delete a customer

Real-Time Project

HTTP Method		CRUD Action
POST	/api/customers	<u>C</u> reate a new customer
GET	/api/customers	<u>R</u> ead a list of customers
GET	/api/customers/{customerId}	<u>R</u> ead a single customer
PUT	/api/customers	<u>U</u> pdate an existing customer
DELETE	/api/customers/{customerId}	<u>D</u> delete an existing customer

Application Architecture

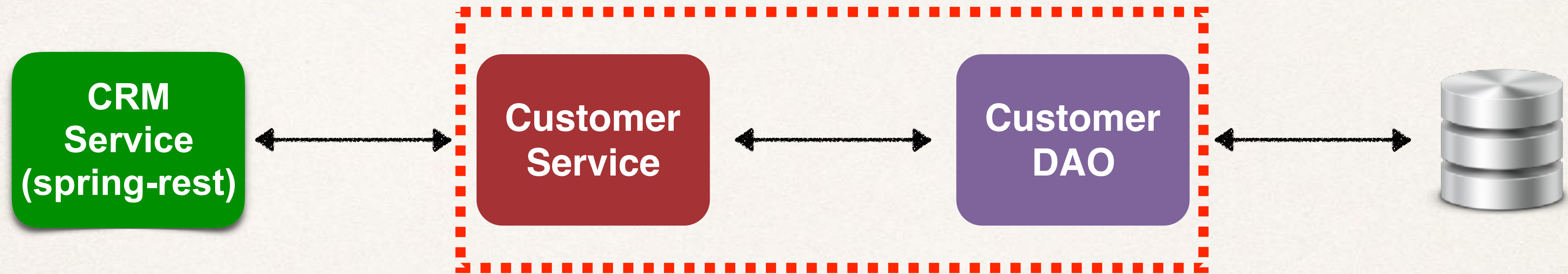
Application Architecture

**CRM
Service
(spring-rest)**

Application Architecture

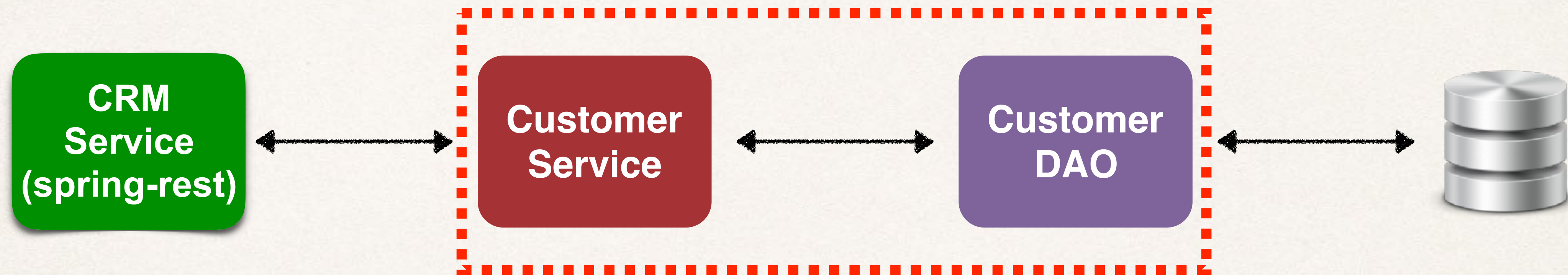


Application Architecture

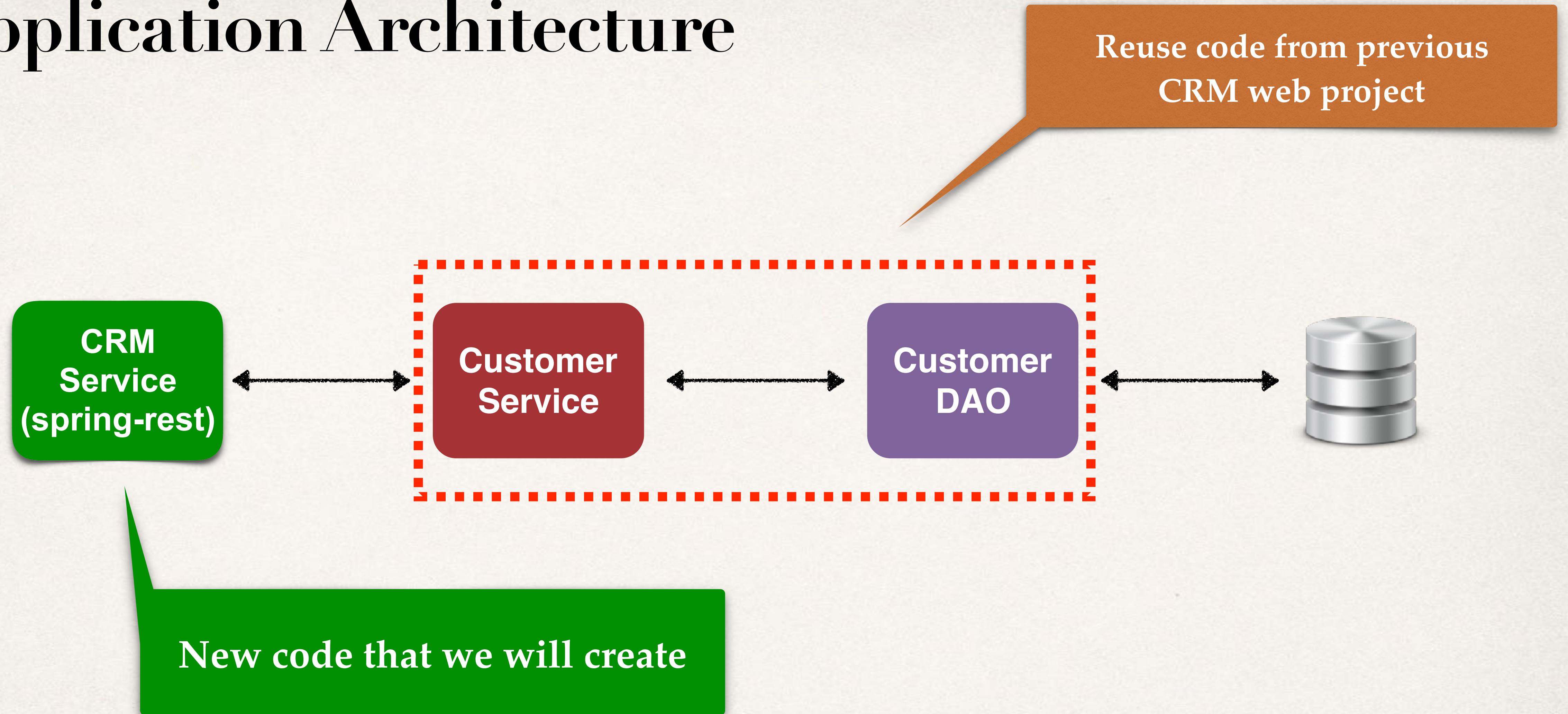


Application Architecture

Reuse code from previous
CRM web project



Application Architecture



Project Set Up

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- We will download a Maven starter project

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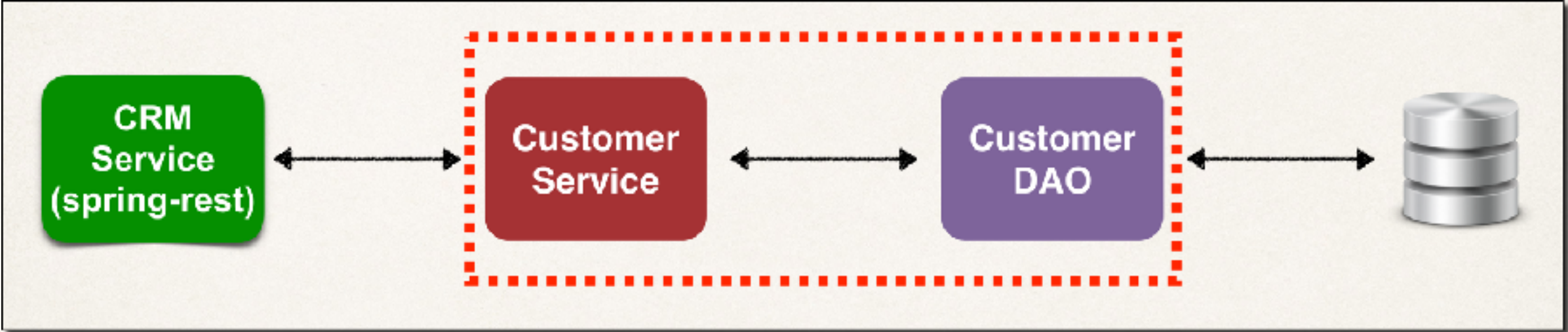
- We will download a Maven starter project
- Includes CustomerService, CustomerDAO and Customer entity
 - We created all of this code already
- Allows us to focus on creating CRM REST Service

Development Process

Step-By-Step

Development Process

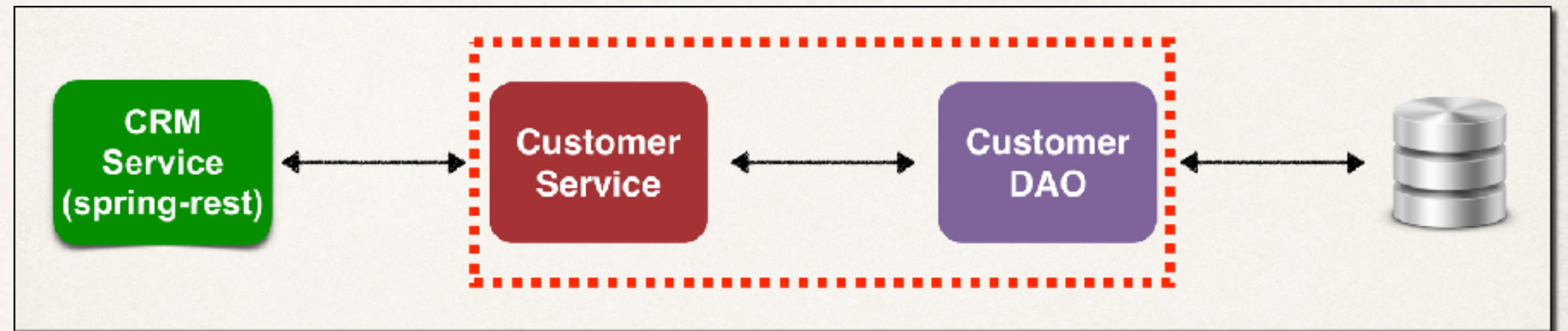
Step-By-Step



Development Process

Step-By-Step

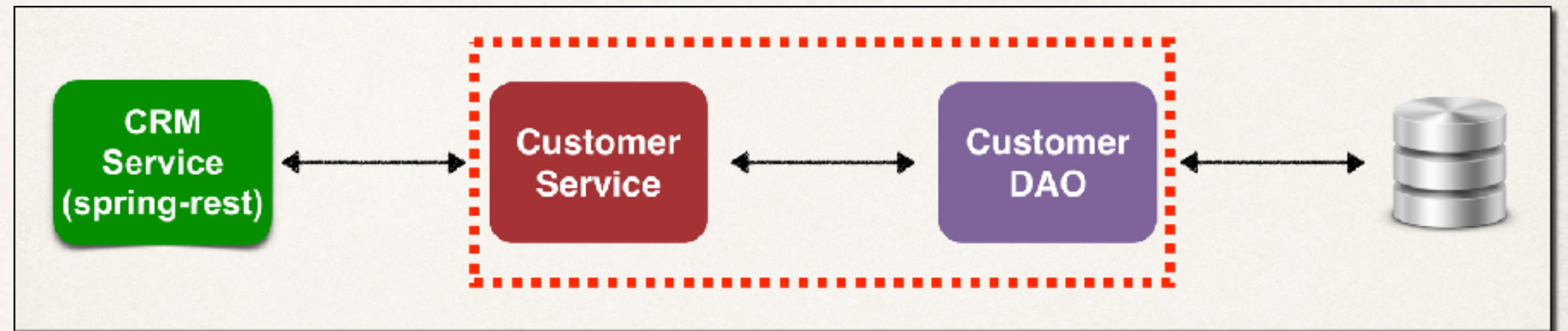
1. Get customers



Development Process

Step-By-Step

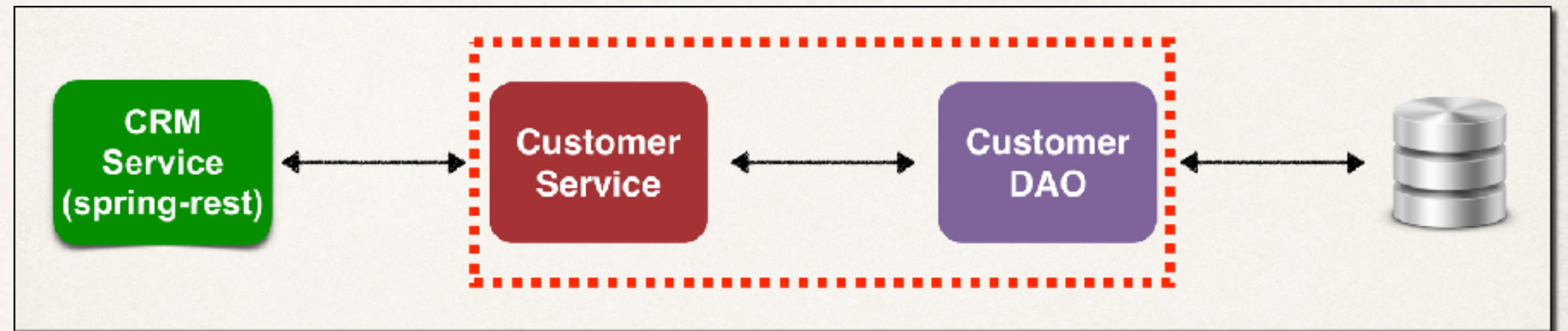
1. Get customers
2. Get single customer by ID



Development Process

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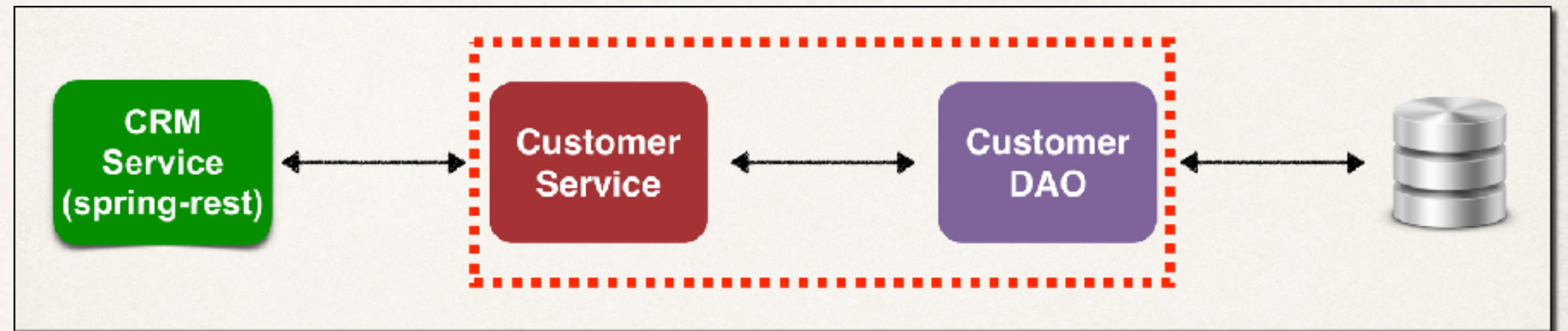
1. Get customers
2. Get single customer by ID
3. Add a new customer



Development Process

Step-By-Step

1. Get customers
2. Get single customer by ID
3. Add a new customer
4. Update an existing customer



Development Process

Step-By-Step

1. Get customers
2. Get single customer by ID
3. Add a new customer
4. Update an existing customer
5. Delete an existing customer

