

# Example Documentation-as-Code

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## CAS Software Architecture

Software Architecture Documentation with arc42, C4 model and Documentation as Code

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# 1. Introduction and Goals

## 1.1. Requirements Overview

## 1.2. Quality Goals

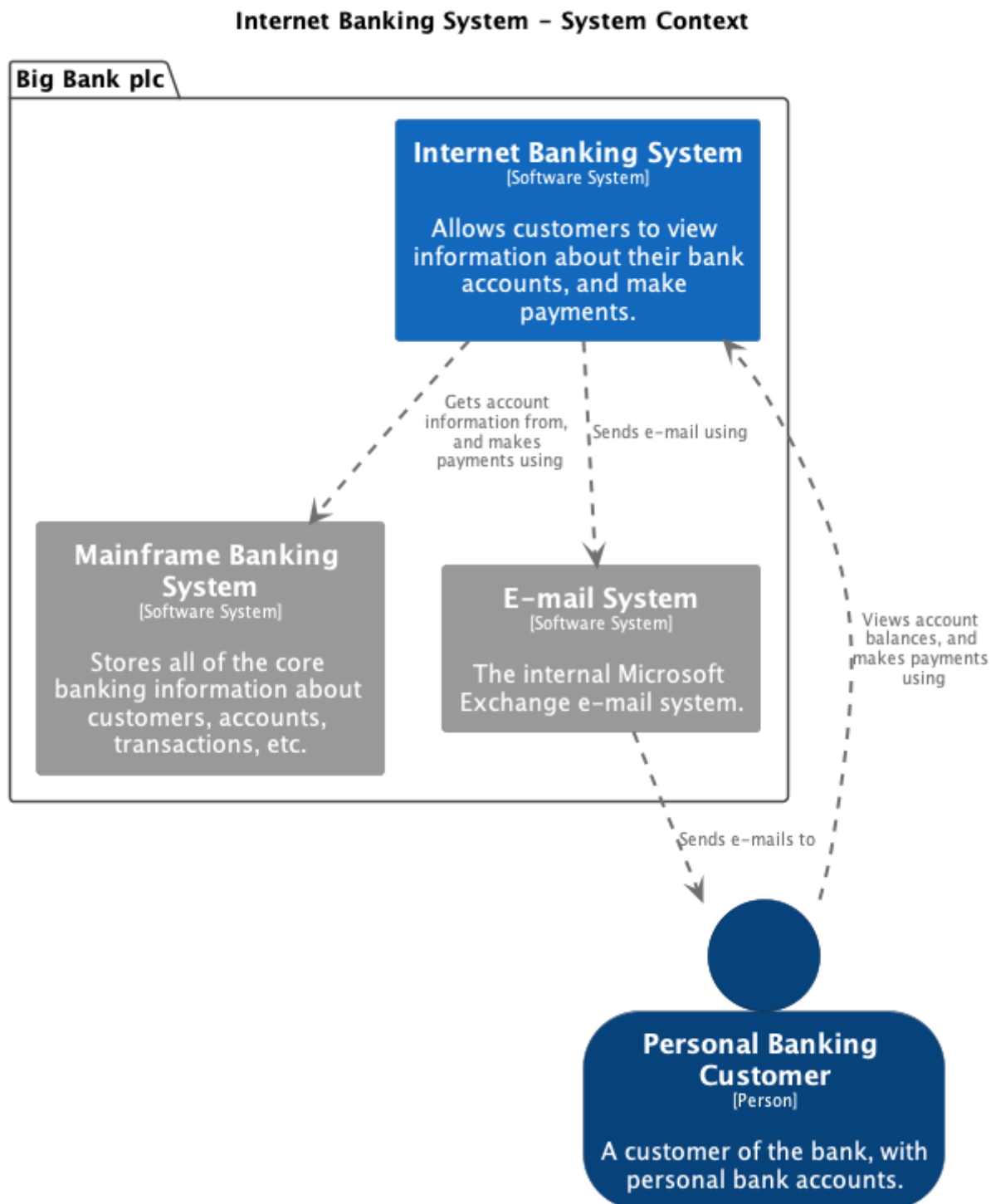
## 1.3. Stakeholders

Role/Name	Contact	Expectations
<Role-1>	<Contact-1>	<Expectation-1>
<Role-2>	<Contact-2>	<Expectation-2>

## 2. Architecture Constraints

# 3. System Scope and Context

## 3.1. Business Context



<Diagram or Table>

<optionally: Explanation of external domain interfaces>

## 3.2. Technical Context

<Diagram or Table>

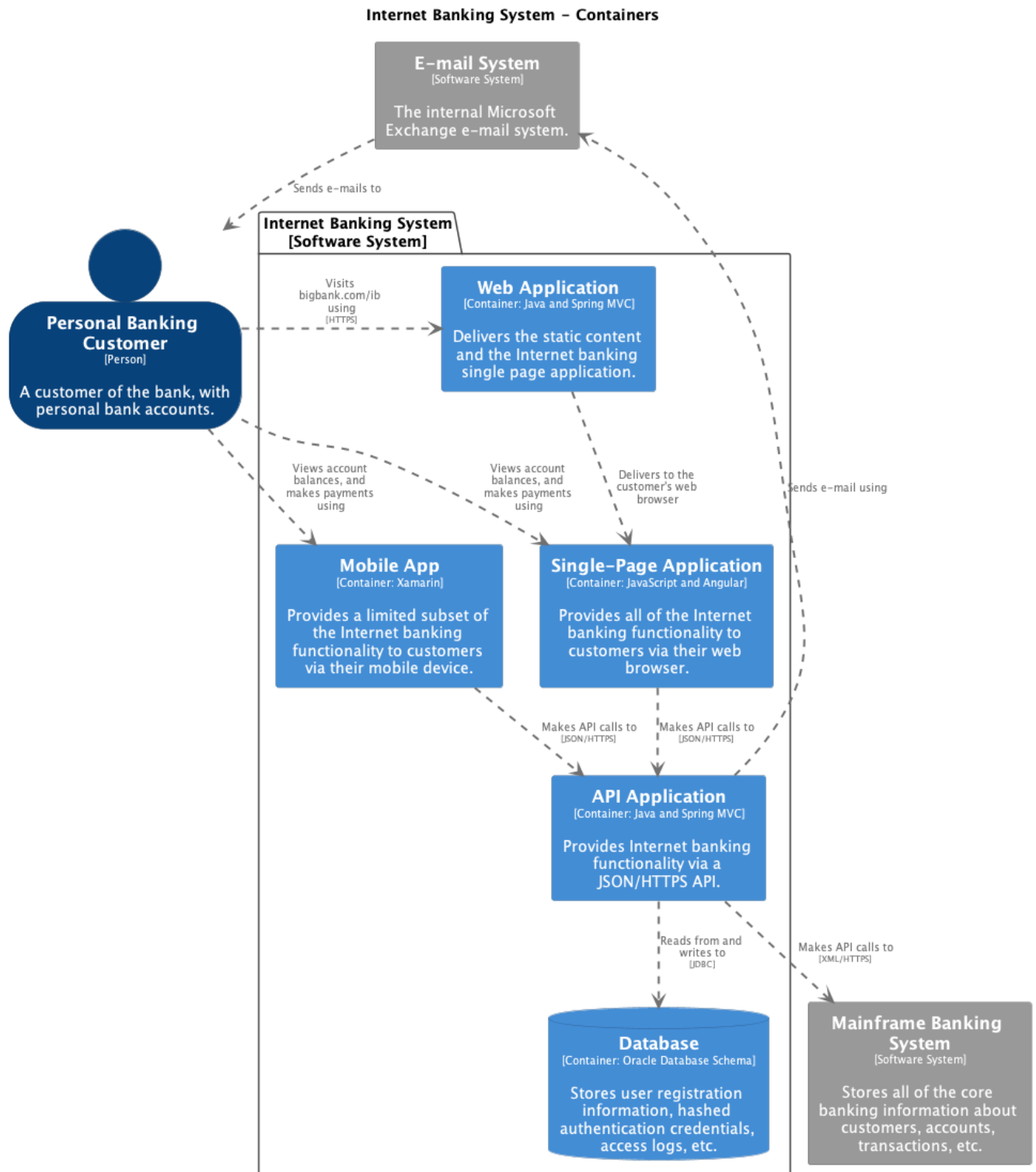
<optionally: Explanation of technical interfaces>

<Mapping Input/Output to Channels>

## 4. Solution Strategy

# 5. Building Block View

## 5.1. Internet Banking System



<Overview Diagram>

Motivation

<text explanation>

## Contained Building Blocks

*<Description of contained building block (black boxes)>*

## Important Interfaces

*<Description of important interfaces>*

### 5.1.1. <Name black box 1>

*<Purpose/Responsibility>*

*<Interface(s)>*

*<(Optional) Quality/Performance Characteristics>*

*<(Optional) Directory/File Location>*

*<(Optional) Fulfilled Requirements>*

*<(optional) Open Issues/Problems/Risks>*

### 5.1.2. <Name black box 2>

*<black box template>*

### 5.1.3. <Name black box n>

*<black box template>*

### 5.1.4. <Name interface 1>

...

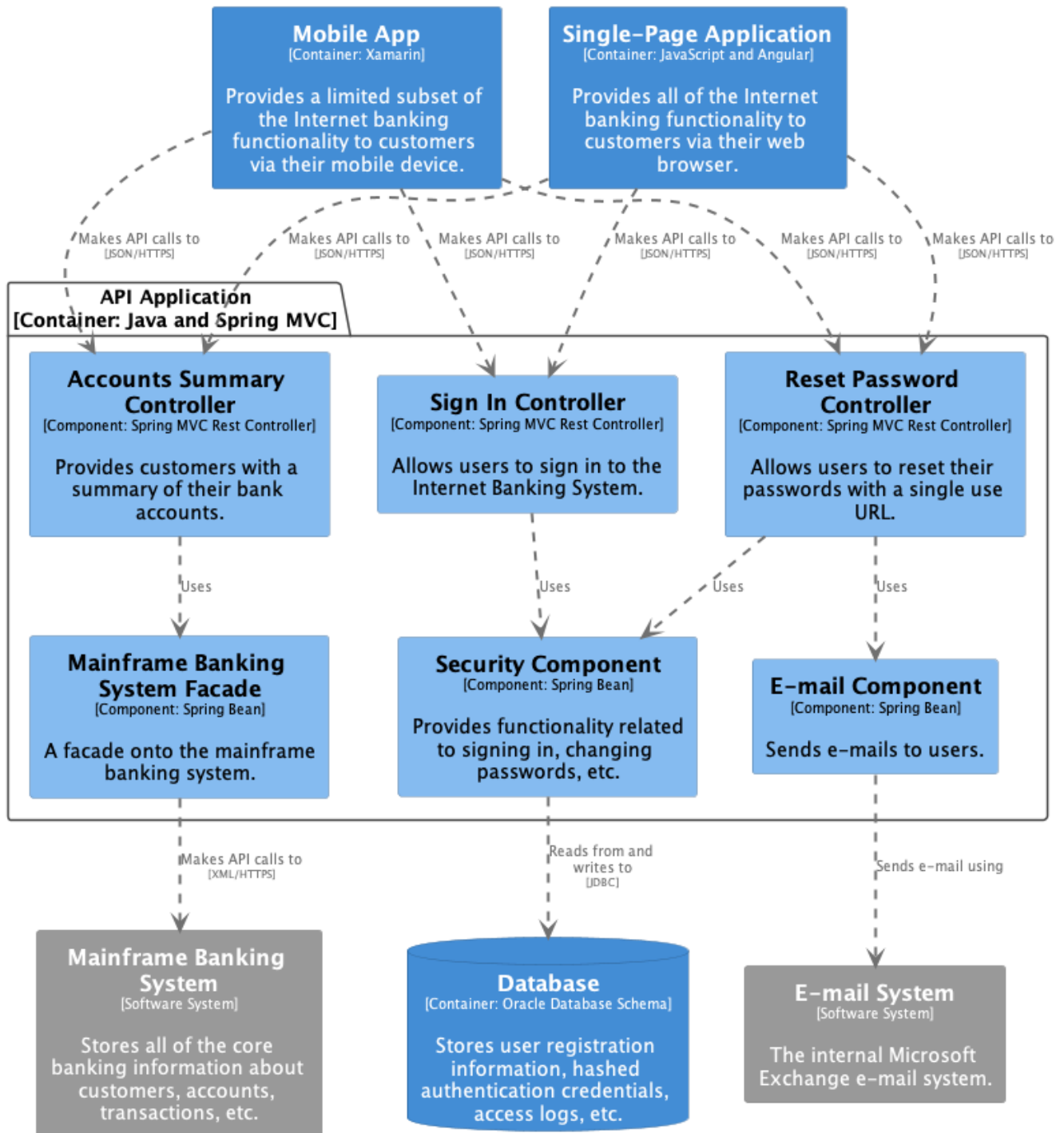
### 5.1.5. <Name interface m>

## 5.2. Level 2

### 5.2.1. White Box API Application



## Internet Banking System – API Application – Components



<white box template>

### 5.2.2. White Box <building block 2>

<white box template>

...

### 5.2.3. White Box <building block m>

<white box template>

## 5.3. Level 3

### 5.3.1. White Box <\_building block x.1\_>

*<white box template>*

### 5.3.2. White Box <\_building block x.2\_>

*<white box template>*

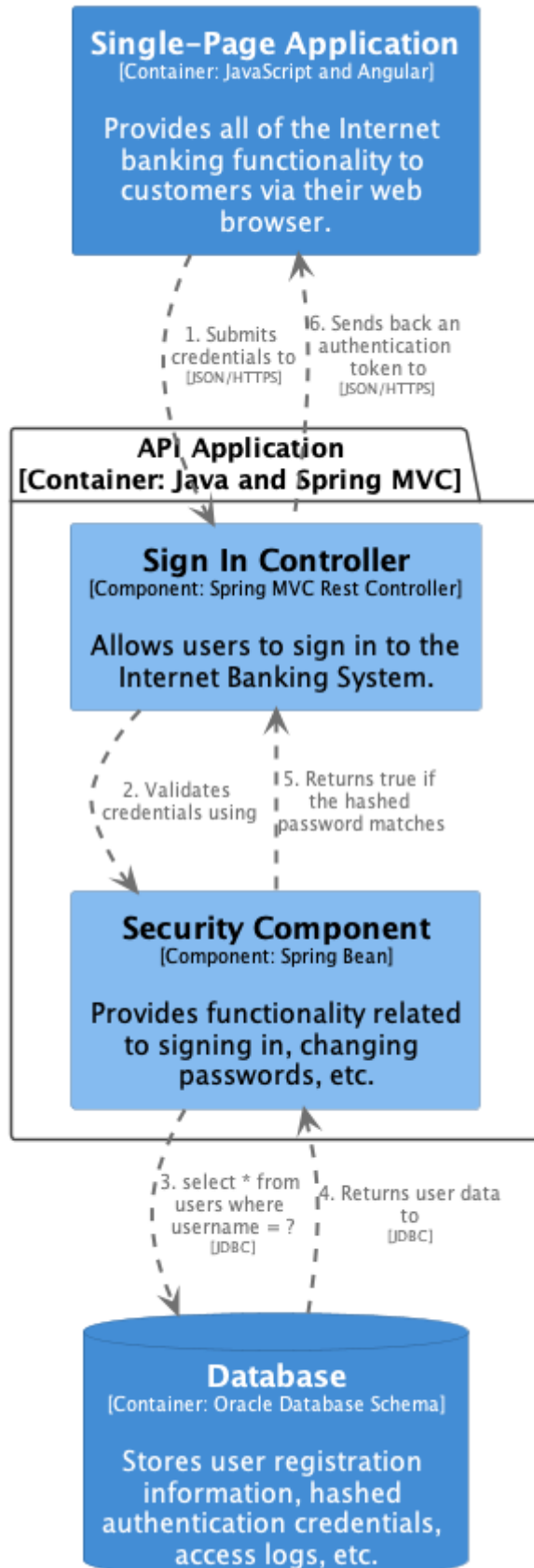
### 5.3.3. White Box <\_building block y.1\_>

*<white box template>*

# 6. Runtime View

## 6.1. Sign-In

### API Application – Dynamic



- *<insert runtime diagram or textual description of the scenario>*
- *<insert description of the notable aspects of the interactions between the building block instances depicted in this diagram.>*

## **6.2. <Runtime Scenario 2>**

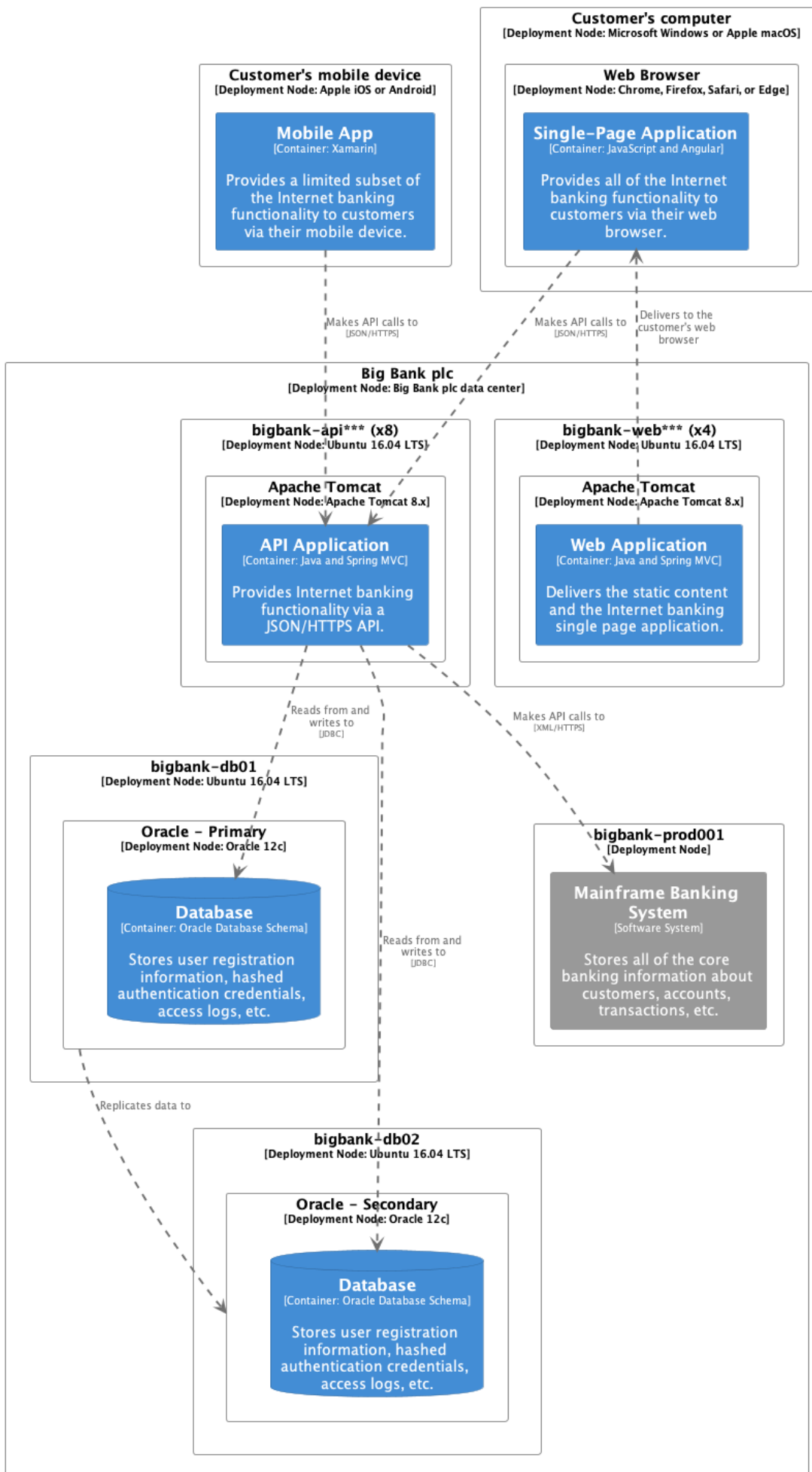
## **6.3. ...**

## **6.4. <Runtime Scenario n>**

## **7. Deployment View**

### **7.1. Infrastructure Level 1**

## Internet Banking System – Deployment – Live



**Motivation**

*<explanation in text form>*

**Quality and/or Performance Features**

*<explanation in text form>*

**Mapping of Building Blocks to Infrastructure**

*<description of the mapping>*

## **7.2. Infrastructure Level 2**

**7.2.1. <Infrastructure Element 1>**

*<diagram + explanation>*

**7.2.2. <Infrastructure Element 2>**

*<diagram + explanation>*

...

**7.2.3. <Infrastructure Element n>**

*<diagram + explanation>*

## 8. Cross-cutting Concepts

### 8.1. <Concept 1>

<explanation>

### 8.2. <Concept 2>

<explanation>

...

### 8.3. <Concept n>

<explanation>



## 9. Architecture Decisions

# **10. Quality Requirements**

## **10.1. Quality Tree**

## **10.2. Quality Scenarios**

## 11. Risks and Technical Debts

# 12. Glossary

Term	Definition
<Term-1>	<definition-1>
<Term-2>	<definition-2>