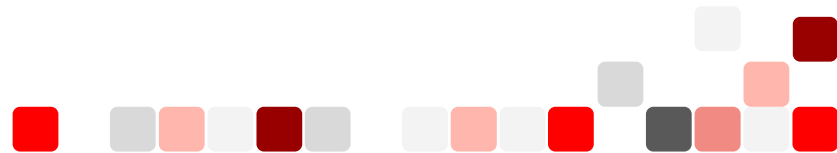
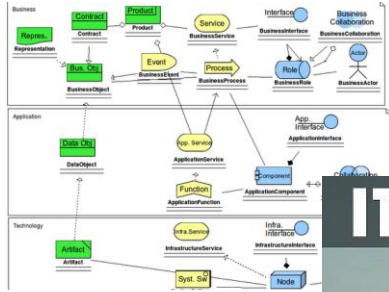




# Визуализация архитектуры. C4 model



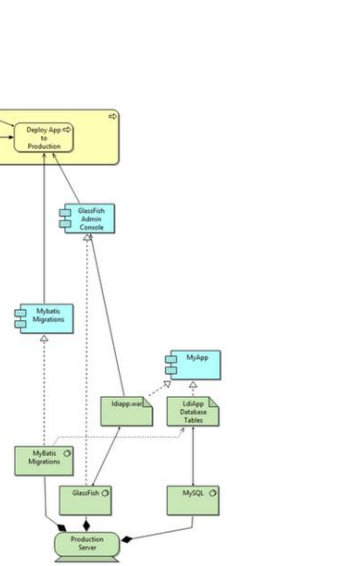
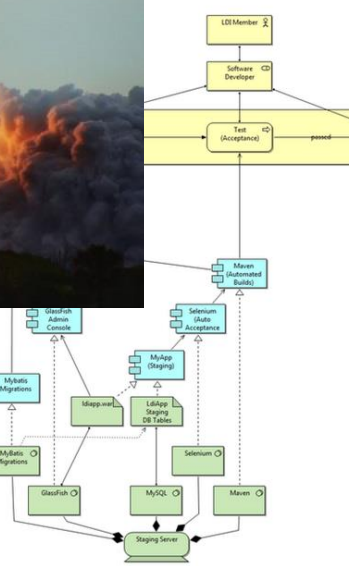
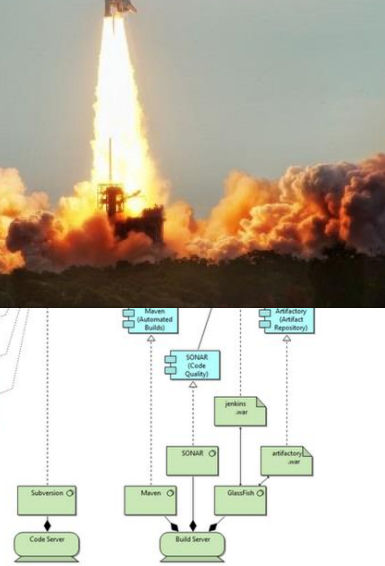
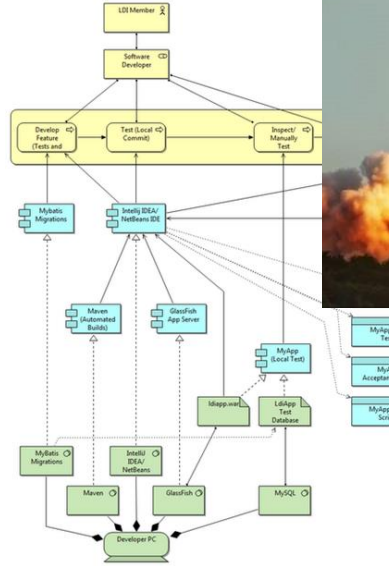
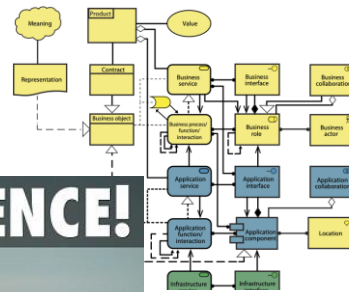
# Языки моделирования UML, ArchiMate



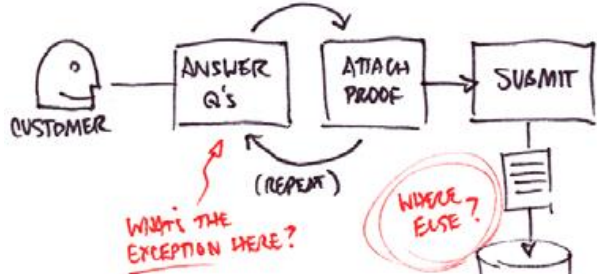
## CORE METAMODEL

ArchiMate Core Metamodel\*

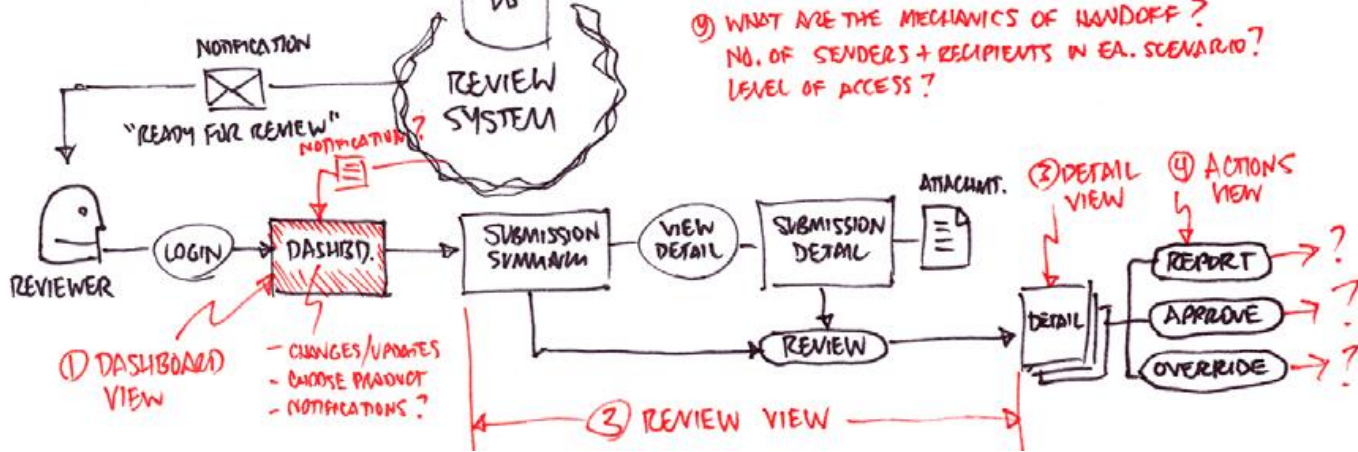
\*does not include all associations



# Box & Arrows

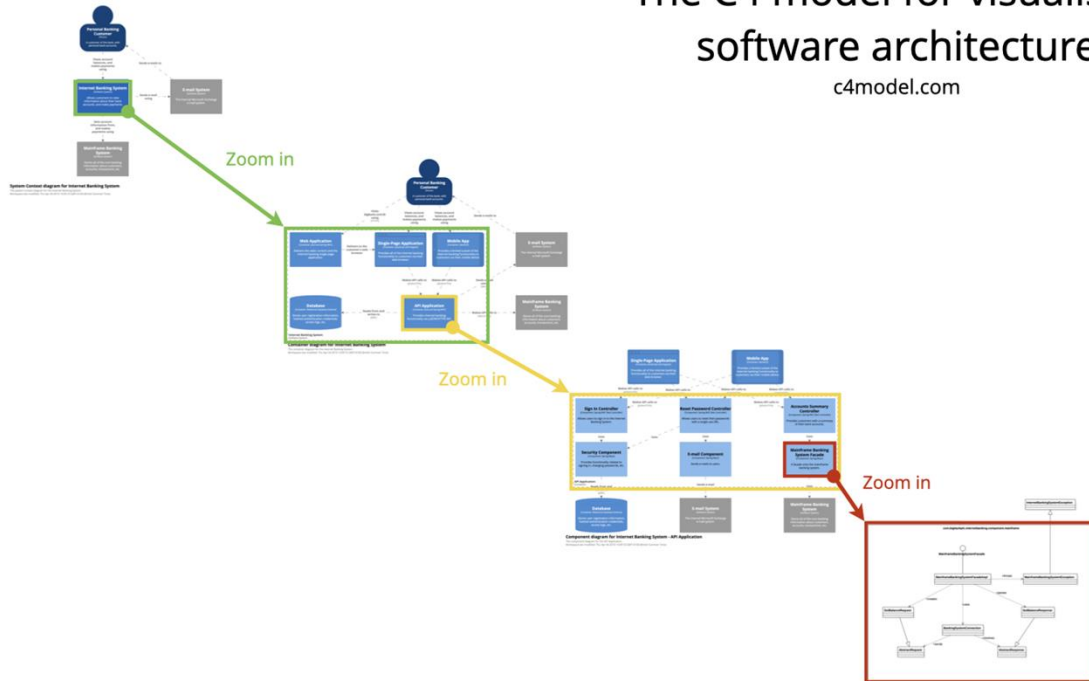


- Q5
- ① WHAT DATA NEEDS TO TR EA. USER TYPE? REQA
  - ② WHAT DOES EACH USER ABLE TO DO WITH WHAT
  - ③ WHO ELSE CONSUMES- THAT INFO? WHERE DO
  - ④ WHAT ARE THE MECHANICS OF HANDOFF? NO. OF SENDERS + RECIPIENTS IN EA. SCENARIO? LEVEL OF ACCESS?



## The C4 model for visualising software architecture

c4model.com



Level 1  
Context

Level 2  
Containers

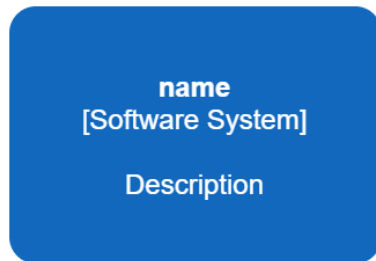
Level 3  
Components

Level 4  
Code

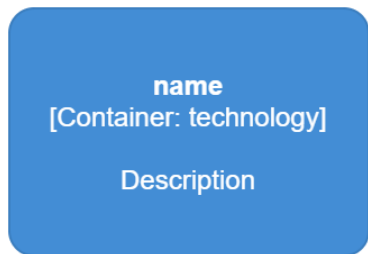
## Person



## Software system



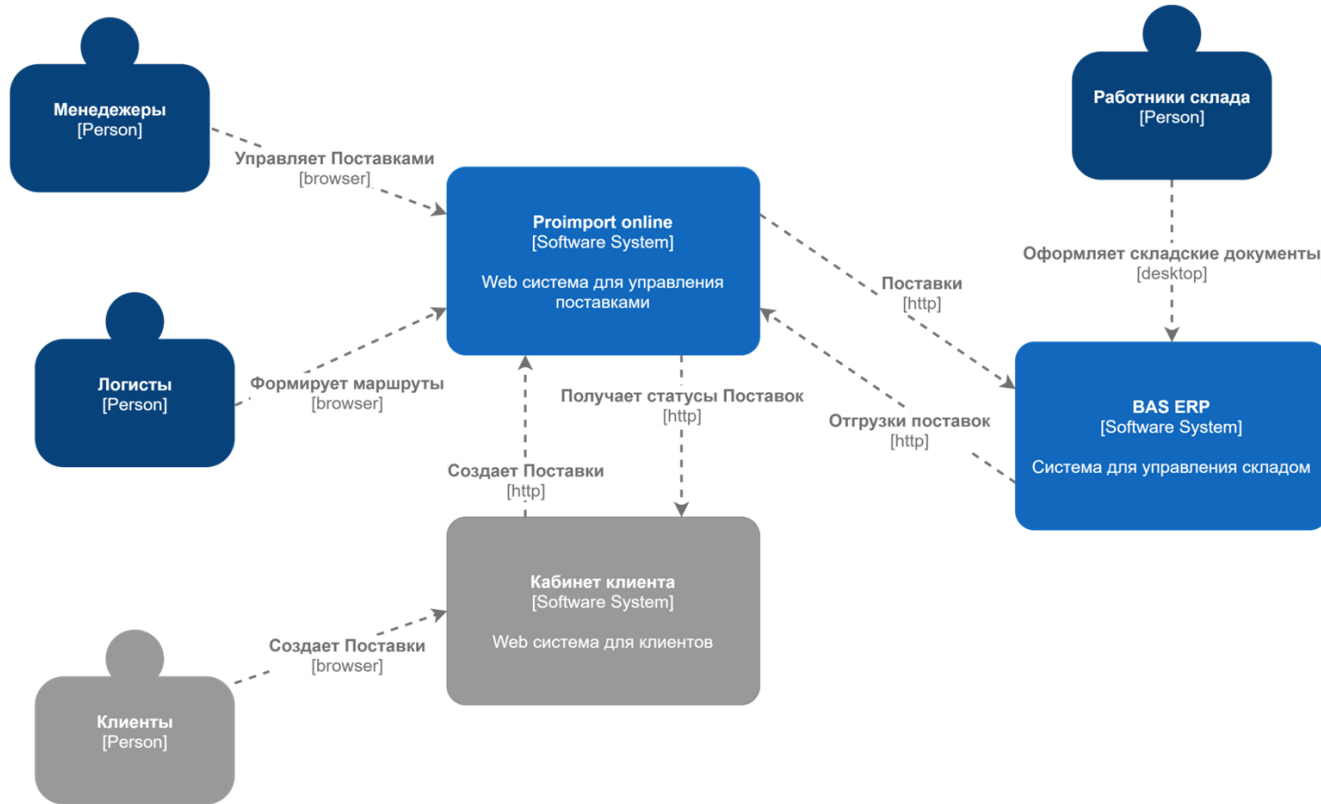
## Container



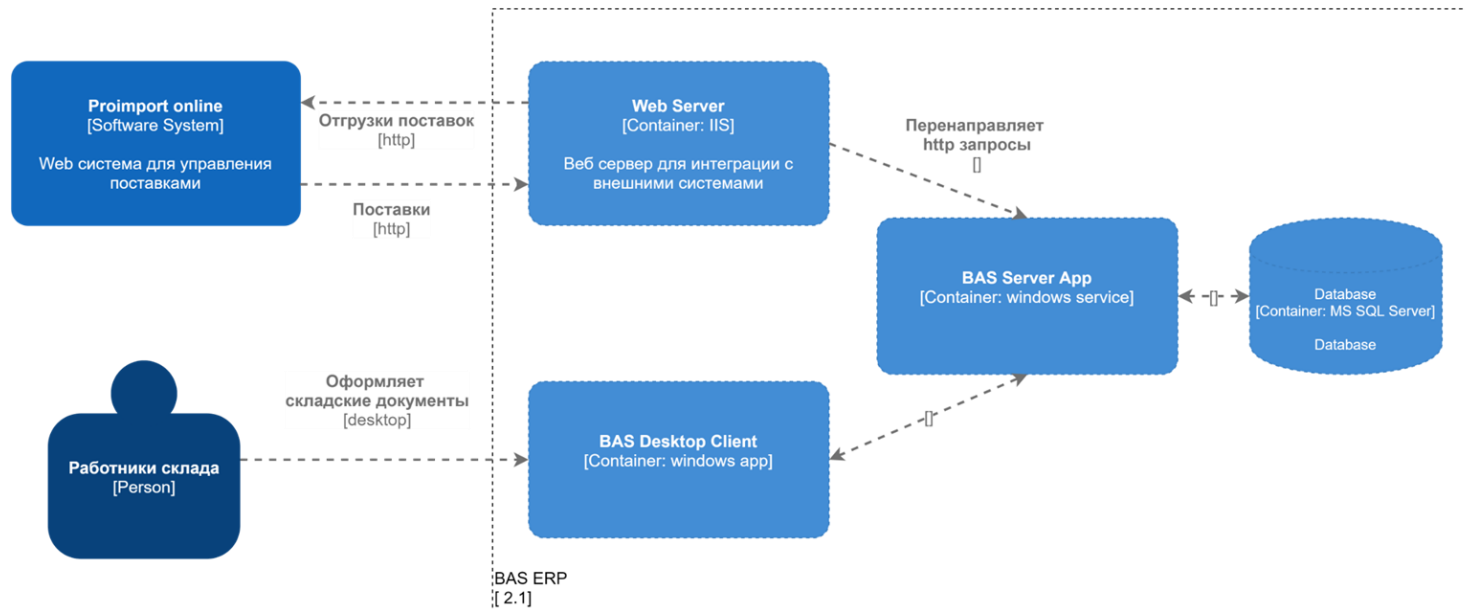
## Component



# C1. Диаграмма контекста



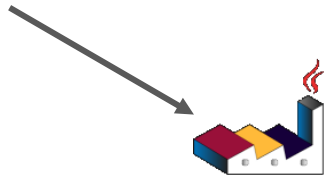
## C2. Диаграмма контейнеров



Плагины / наборы компонентов для популярных средств моделирования



Diagrams as a code



Plant UML



Vs Code



```
File Edit Selection View Go Run Terminal Help
PlantUML Preview - tqm_workshop_c4 - Visual Studio Code [Administrator]

1_1_ISG_SystemContext.puml x
1 @startuml C4_Elements
2 !include https://raw.githubusercontent.com/plantuml-stdlib/C4-PlantUML/master/C4_Context
3
4 ' LAYOUT_TOP_DOWN()
5 LAYOUT_LEFT_RIGHT()
6 LAYOUT_WITH_LEGEND()
7
8 title "ISG System context"
9
10 Boundary(users, "Пользователи Web Logistics"){
11     Person(manager, "Manager")
12     Person_Ext(client, "Client")
13 }
14
15 System(webLogistics, "Web Logistics", "Веб приложения для управления Поставками")
16 Rel(manager, webLogistics, "Use", "браузер")
17 Rel(client, webLogistics, "создает Заявки, Отслеживает статус Поставки", "браузер")
18
19 System_Ext(smtpServer, "SMTP")
20 Rel(smtpServer, manager, "Получает уведомления об изменениях в системе")
21 Rel(smtpServer, client, "Получает уведомления об изменениях в заказе/поставке")
22 Rel(webLogistics, smtpServer, "формирует уведомления для пользователей")
23
24 'Пользователи ERP
25 Person(warehouseWorker, "Работник склада")
26
27 System(basErp, "BAS ERP", "Модуль складской логистики")
28
29 Rel(warehouseWorker, basErp, "Использует", "desktop приложение")
30
31 'Интеграция Web Logistics -> BAS ERP
32 Rel(webLogistics, basErp, "Поставки на центральный склад", "http")
33 Rel(basErp, webLogistics, "Статусы по отгрузкам Поставок", "http")
34
35
36 @enduml
```

ISG System Context

Пользователи Web Logistics

Manager

Client

Web Logistics  
Веб приложения для управления Поставками

SMTP

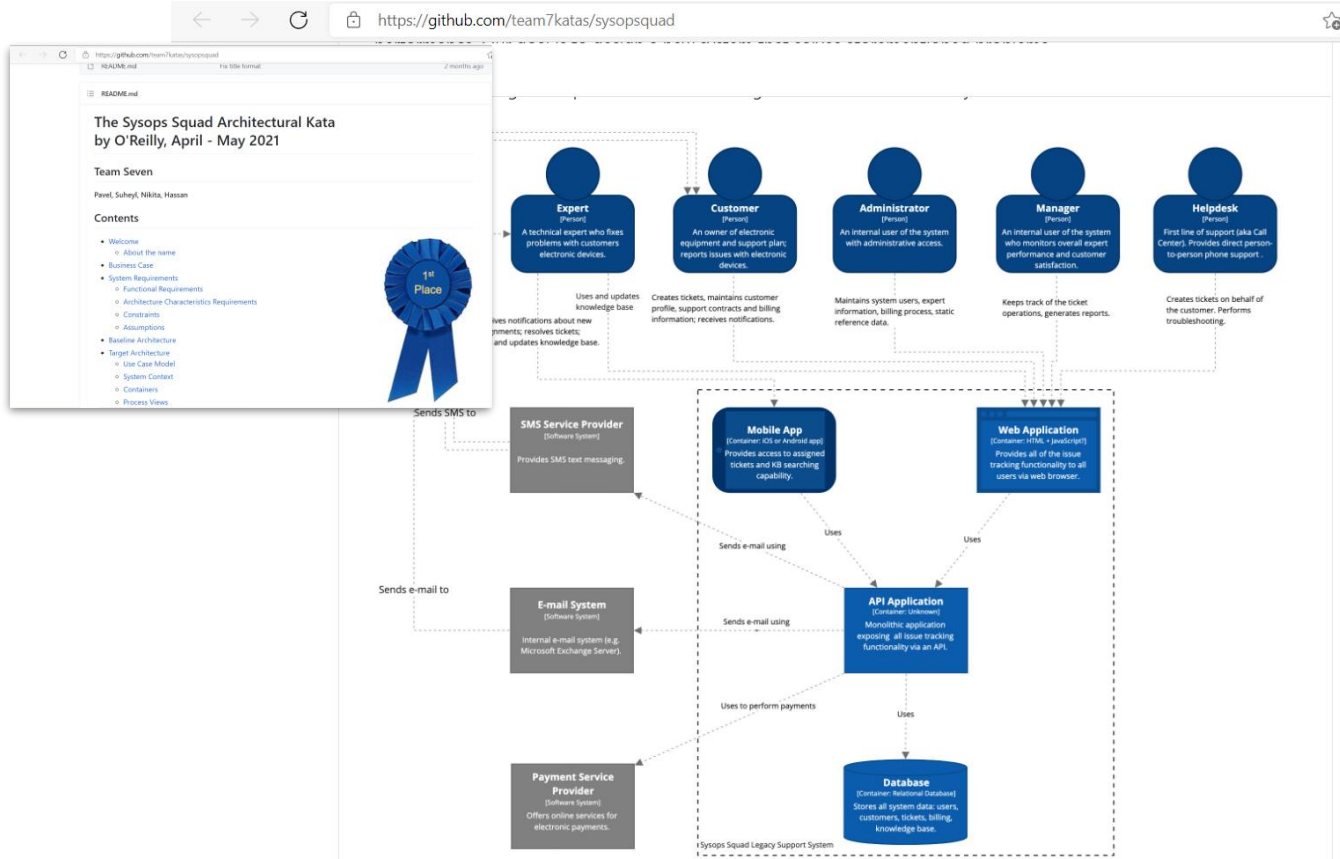
BAS ERP  
Модуль складской логистики

Работник склада

Legend

- person
- system
- external person
- external system

## GitHub - team7katas/sysopsquad: The Sysops Squad Architectural Kata



Официальный сайт

<https://c4model.com/>

Генератор диаграмм PlantUML

<https://marketplace.visualstudio.com/items?itemName=jebbs.plantuml>

C4 plugin для Vs Code

<https://github.com/plantuml-stdlib/C4-PlantUML>

Пример описания архитектуры на C4

[GitHub - team7katas/sysopsquad: The Sysops Squad Architectural Kata](https://github.com/team7katas/sysopsquad)