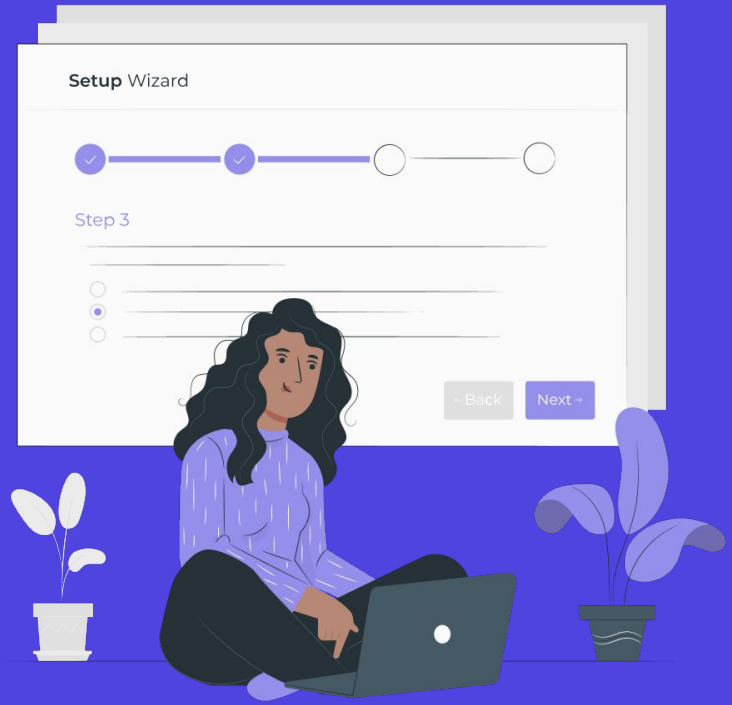
How applications are built in the industry



Relevel
by Unacademy

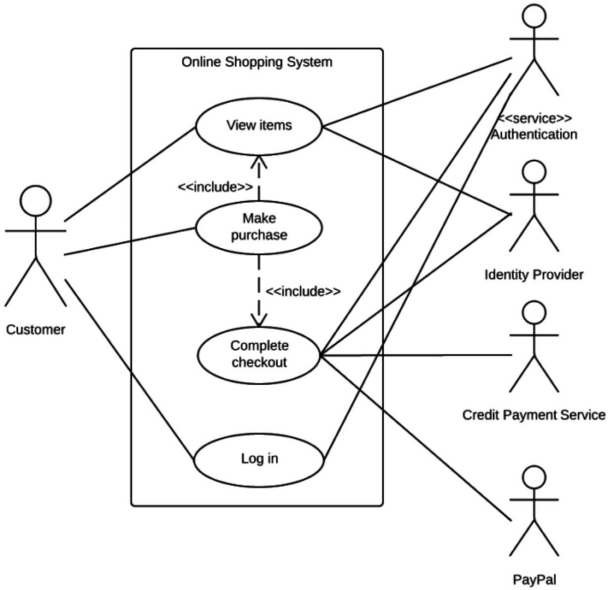
Scoping

The most important piece of information that we need to brainstorm, is to take a deep dive into preparation of our Scope Document. Some call it a Scope Statement or a Scope of the given work / task.

Use case Diagram

A use case diagram can help us to summarize the details of our application's users (called as actors) and their activities and interactions within the system. To create a use case diagram, we'll take help of specialized symbols as well as connectors. A proper use case diagram will help our team discuss and represent: Situations in which your application interacts with the end users. End Goals that our application helps those entities (called as actors) achieve

Use case Diagram



Scope discussion for Hello Eat

Objective of hello eat

- To offer a complete solution to the urban foodie in terms of food ordering and delivery from best restaurants located in the vicinity
- To create a single window and include a wide range of food parlours and restaurants under its umbrella
- To revolutionize the restaurant-takeaway-delivery business
- Save time
- Reliability and consistency in service

Objective of hello eat

- To provide the best experience to both our customers & restaurants partners, and improving the system is a key part of providing this experience
- To provide food and delivery ratings being a direct feedback from our customers about their order experience
- Improving the feedback experience for both our customers and restaurant partners, making it more seamless, accurate and purposeful
- To provide customers with timely deliveries and real-time tracking of their order status

System features

All the features that the app contains are reported in the next point of this document. It is a Multi Language app starting with Italian (base) and English (not available at the launch).

Client and home management

- Starting the app
- Select a restaurant / search filter
- Homepage of the app
- Promotions area
- Order/menu

Client and home management

- Membership level
- Change your location/restaurant
- Most Liked
- One Click Order
- Order Status/Management

Admin Panel

- Main Admin Panel (Android Tablet APP)
- Super Admin Panel (Android Tablet APP)
- Admin Panel (Android Tablet APP)

Categories, products, ingredients, size and fields (registration forms too)

- Categories in the order menu
- Products
- Main Ingredients
- Removing ingredients
- Extra ingredients
- User registration
- Order withdraw menu
- Payment menu
- Run Order

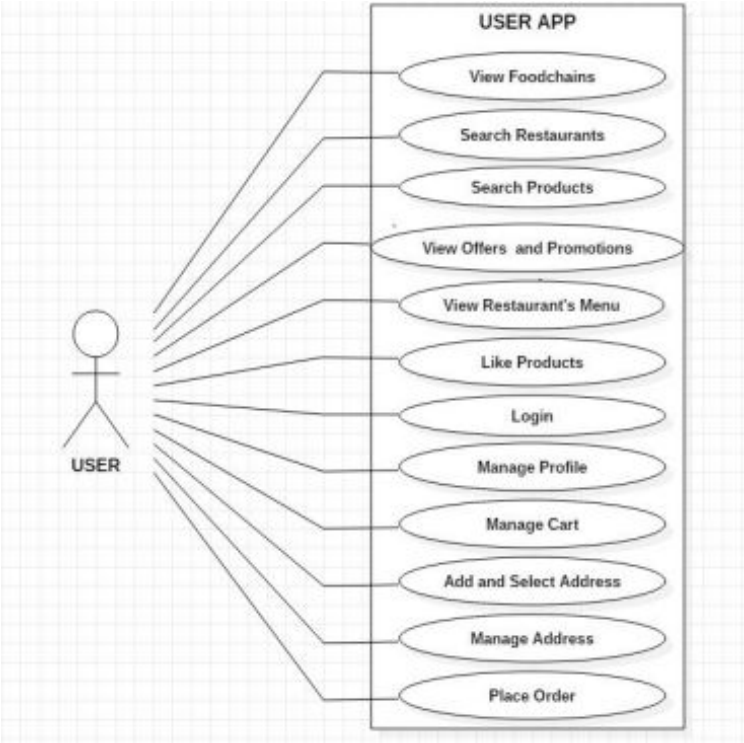
Other Description

Other added features

- Product perspective
- Product features
- User classes and characteristics

Use case diagrams

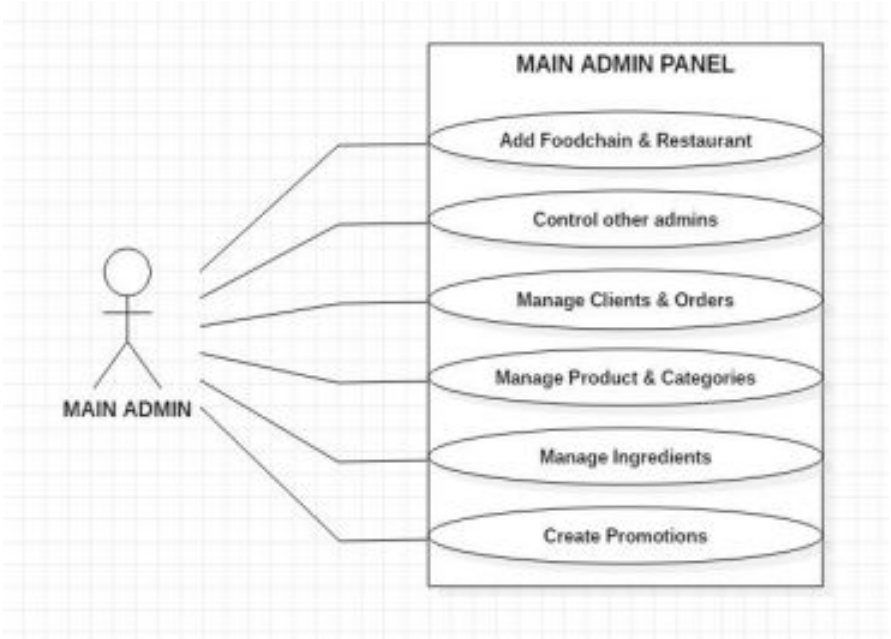
User app use case diagram



Use case description

Clients are basically every single user that will utilize the app. A user can view foochains in the home page of the application. A user can also search restaurants and products in the explore page, view offers and promotions, view a particular restaurant’s menu, like specific products, login to his/her account, manage profile, manage cart, add and select address, manage address i.e. edit and delete his/her address. A user can also place an order.

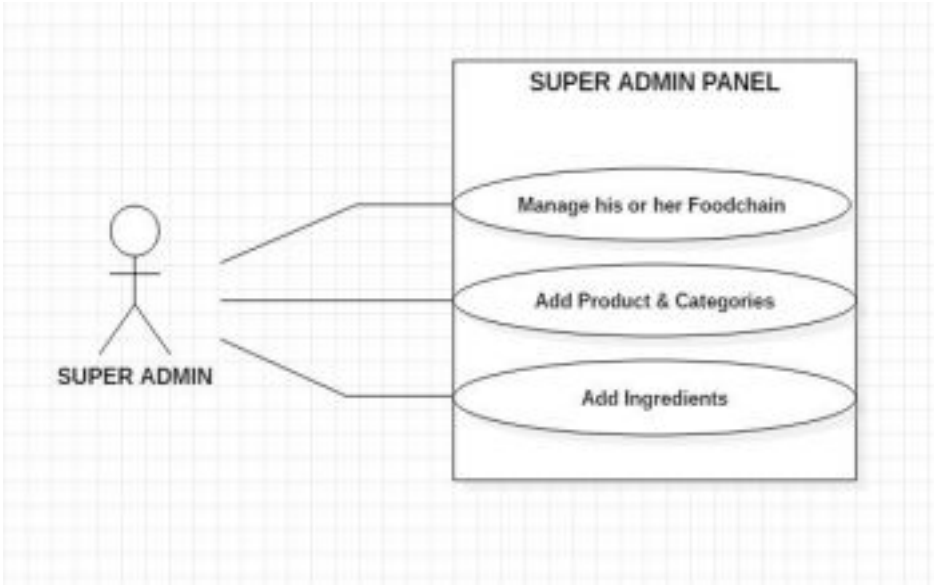
Main Admin Panel



Use case description

The Main Admin is the owner of HelloEat Company / CEO – it must has control on the admins too. They main admin panel must be able to manage clients, orders, fields (categories,products, ingredients, size and other fields), promotions (notifications and/or promo) and access to all the restaurants panel/data. It could create promotions to send via push notifications to selected categories of users
(selected by City or other fields to establish in future). It could create promotions that could be shown as push notifications selecting audience too.

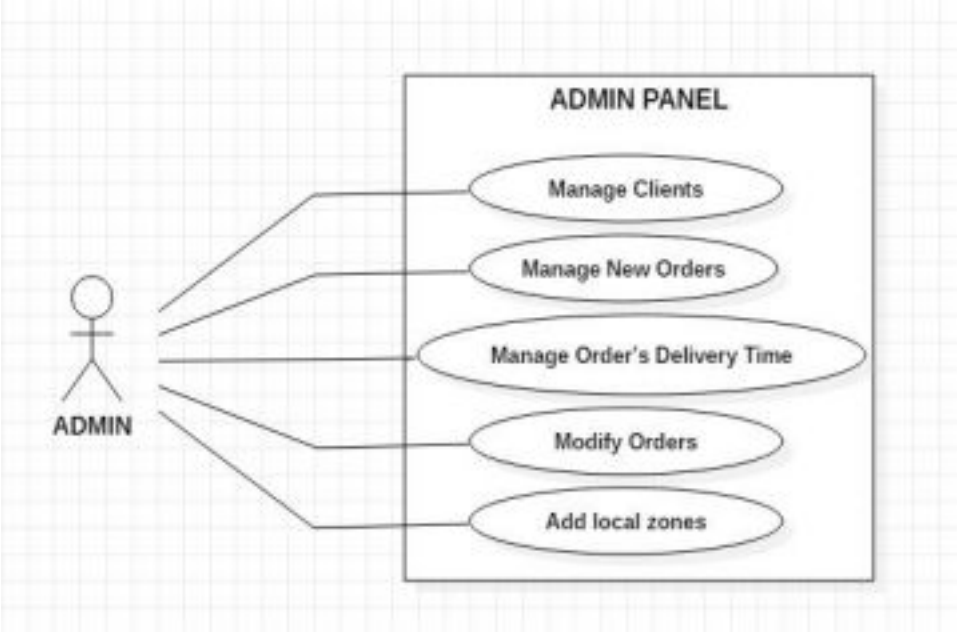
Super admin panel use case diagram



Use case description

A Super Admin is the owner of a foodchain – he can manage the foodchain over the admins.The super admin panel includes all the functionalities of Main Admin but it can manage only the food points of a chain. He/She cannot touch and see the conditions related to the fees.

Admin Panel Use case diagram



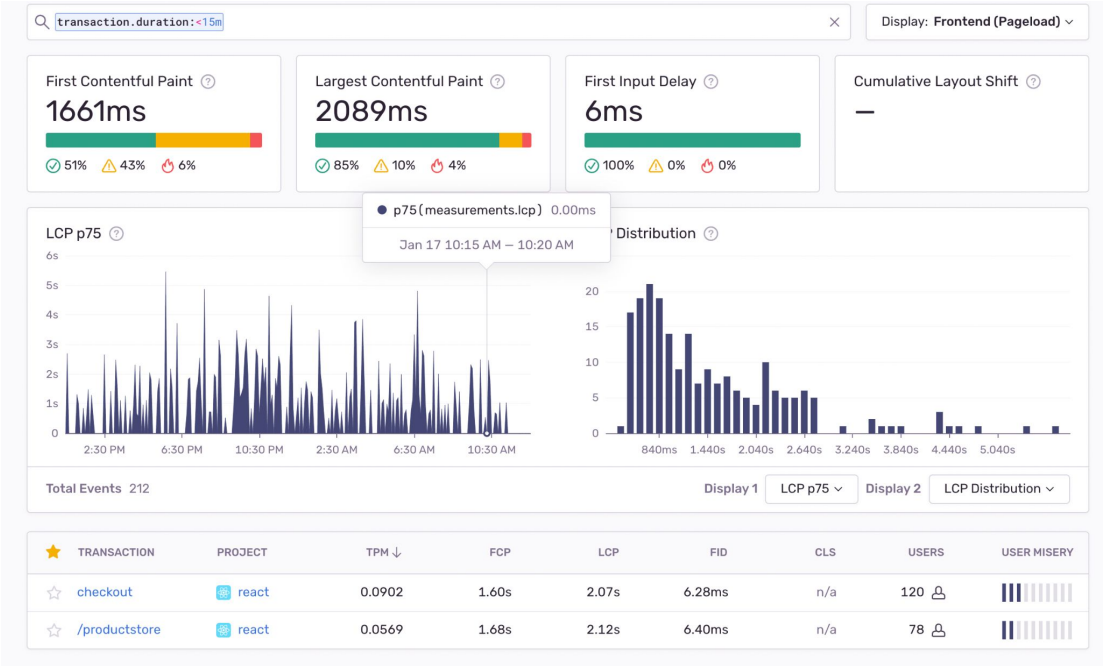
Use case description

An Admin is the manager of a single restaurant.The admin panel is referred to a single restaurant one. It has all the features of Main Admin but they cannot insert new products but just manage orders and clients. Every admin could add “local zones” to manage orders. This will be useful to manage deliveries. They could add a few zones to a single delivery man and create their profile (Just a name/nickname) so they can choose to auto assign orders by zone or select them order by order). An admin also manages new orders and manages order’s delivery time.

Logging and Monitoring

- What is logging and monitoring ?
- Methods to do this
- Sentry and integrations with sentry

Logging and Monitoring



Logging and Monitoring

```
 01
03/22 08:51:01 INFO   :.main: ************** RSVP Agent started **************
 02
03/22 08:51:01 INFO   :...locate_configFile: Specified configuration file: /u/user10/rsvpd1.co
03/22 08:51:01 INFO   :.main: Using log level 511
03/22 08:51:01 INFO   :..settcpimage: Get TCP images rc - EDC8112I Operation not supported on
 03
03/22 08:51:01 INFO   :..settcpimage: Associate with TCP/IP image name = TCPCS
03/22 08:51:02 INFO   :..reg_process: registering process with the system
03/22 08:51:02 INFO   :..reg_process: attempt OS/390 registration
03/22 08:51:02 INFO   :..reg_process: return from registration rc=0
 04
03/22 08:51:06 TRACE  :...read_physical_netif: Home list entries returned = 7
03/22 08:51:06 INFO   :...read_physical_netif: index #0, interface VLINK1 has address 129.1.1.
03/22 08:51:06 INFO   :...read_physical_netif: index #1, interface TR1 has address 9.37.65.139
03/22 08:51:06 INFO   :...read_physical_netif: index #2, interface LINK11 has address 9.67.100
03/22 08:51:06 INFO   :...read_physical_netif: index #3, interface LINK12 has address 9.67.101
03/22 08:51:06 INFO   :...read_physical_netif: index #4, interface CTCD0 has address 9.67.116.
03/22 08:51:06 INFO   :...read_physical_netif: index #5, interface CTCD2 has address 9.67.117.
03/22 08:51:06 INFO   :...read_physical_netif: index #6, interface LOOPBACK has address 127.0.
03/22 08:51:06 INFO   :....mailslot_create: creating mailslot for timer
03/22 08:51:06 INFO   :...mailbox_register: mailbox allocated for timer
 05
03/22 08:51:06 INFO   :.....mailslot_create: creating mailslot for RSVP
03/22 08:51:06 INFO   :....mailbox_register: mailbox allocated for rsvp
03/22 08:51:06 INFO   :.....mailslot_create: creating mailslot for RSVP via UDP
 06
03/22 08:51:06 WARNING:.....mailslot_create: setsockopt(MCAST_ADD) failed - EDC8116I Address n
03/22 08:51:06 INFO   :....mailbox_register: mailbox allocated for rsvp-udp
03/22 08:51:06 TRACE  :..entity_initialize: interface 129.1.1.1, entity for rsvp allocated and
03/22 08:51:06 INFO   :.....mailslot_create: creating mailslot for RSVP
03/22 08:51:06 INFO   :....mailbox_register: mailbox allocated for rsvp
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03/22 08:51:06 TRACE  :..entity_initialize: interface 9.37.65.139, entity for rsvp allocated a
initialized
03/22 08:51:06 INFO   :.....mailslot_create: creating mailslot for RSVP
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03/22 08:51:06 INFO   :....mailbox_register: mailbox allocated for rsvp-udp
03/22 08:51:06 TRACE  :..entity_initialize: interface 9.67.100.1, entity for rsvp allocated an
03/22 08:51:06 INFO   :.....mailslot_create: creating mailslot for RSVP
03/22 08:51:06 INFO   :....mailbox_register: mailbox allocated for rsvp
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03/22 08:51:06 TRACE  :...entity_initialize: interface 9.67.101.1, entity for rsvp allocated an
03/22 08:51:06 INFO   :.....mailslot_create: creating mailslot for RSVP
03/22 08:51:06 INFO   :....mailbox_register: mailbox allocated for rsvp
03/22 08:51:06 INFO   :.....mailslot_create: creating mailslot for RSVP via UDP
03/22 08:51:06 INFO   :....mailbox_register: mailbox allocated for rsvp-udp
03/22 08:51:06 TRACE  :..entity_initialize: interface 9.67.116.98, entity for rsvp allocated a
initialized
03/22 08:51:06 INFO   :.....mailslot_create: creating mailslot for RSVP
03/22 08:51:06 INFO   :....mailbox_register: mailbox allocated for rsvp
03/22 08:51:06 INFO   :.....mailslot_create: creating mailslot for RSVP via UDP
03/22 08:51:06 INFO   :....mailbox_register: mailbox allocated for rsvp-udp
03/22 08:51:06 TRACE  :..entity_initialize: interface 9.67.117.98, entity for rsvp allocated a
initialized
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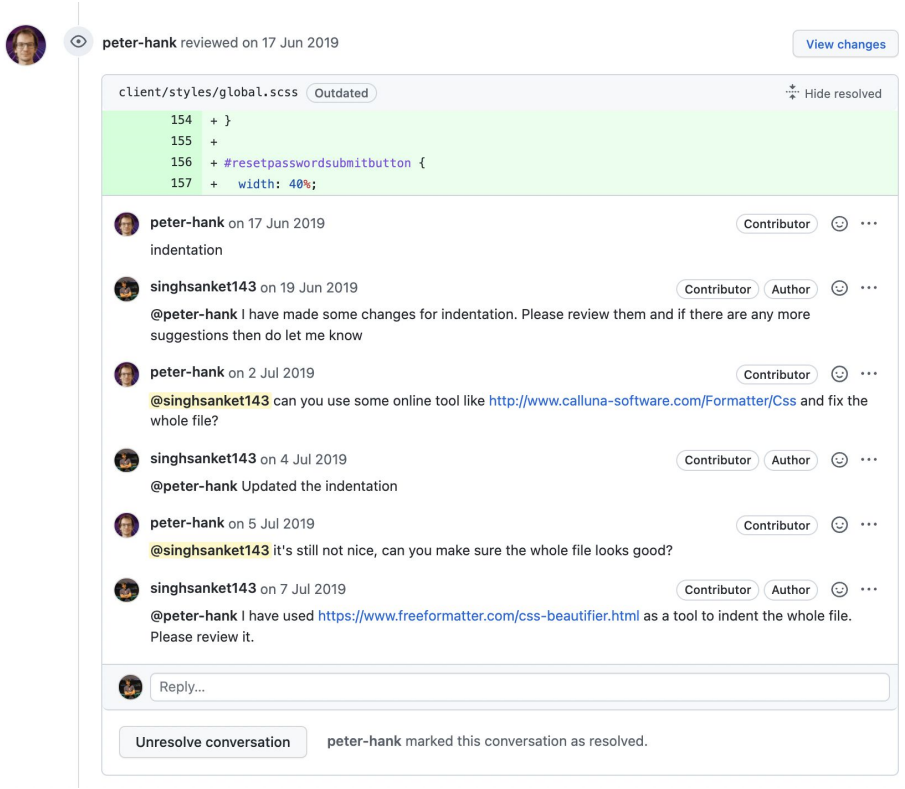
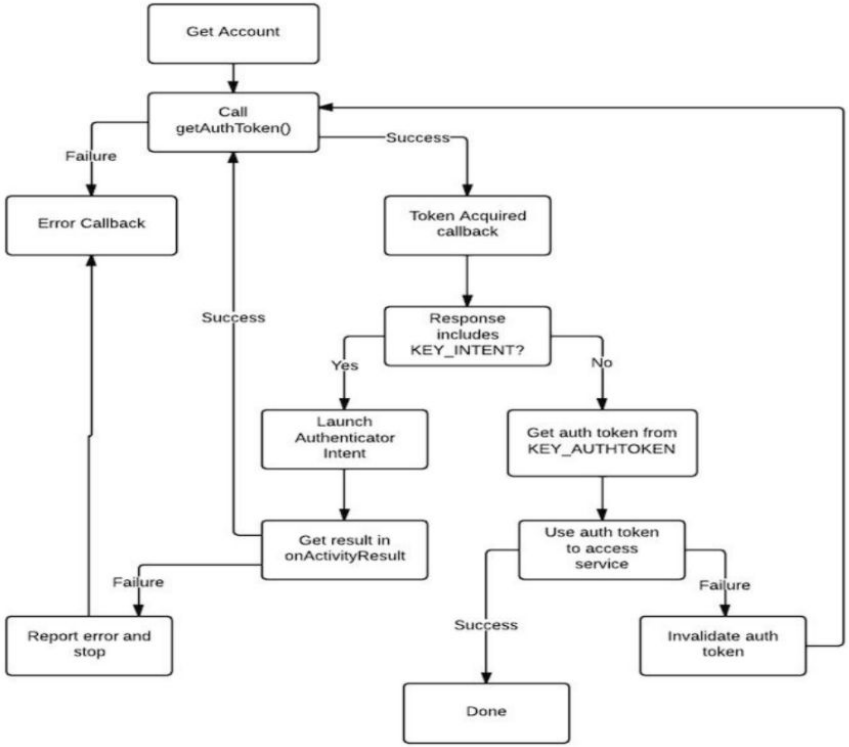
Code Reviews

- What is code review ?
- Why are they important ?
- Examples:

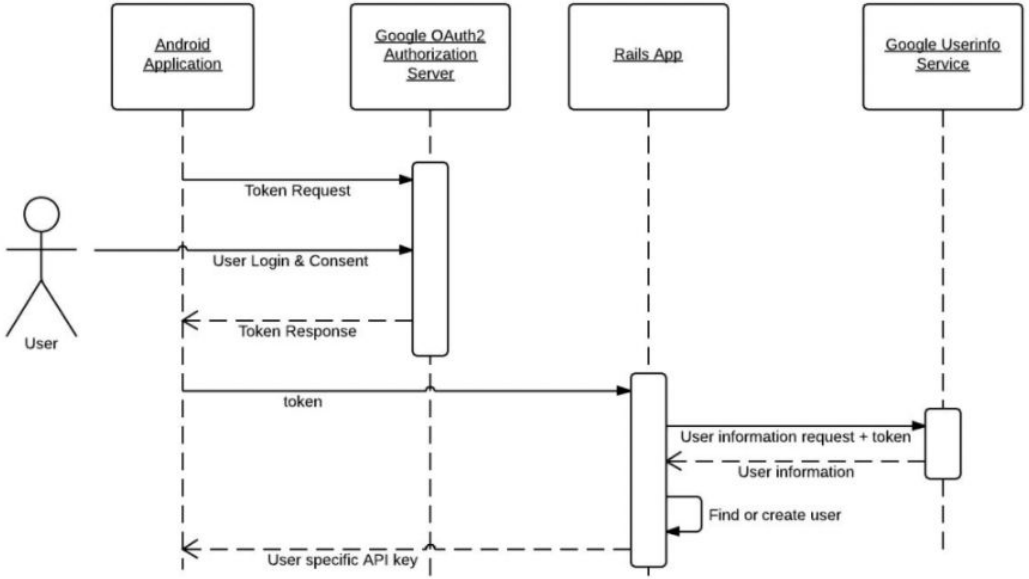


Architecture design

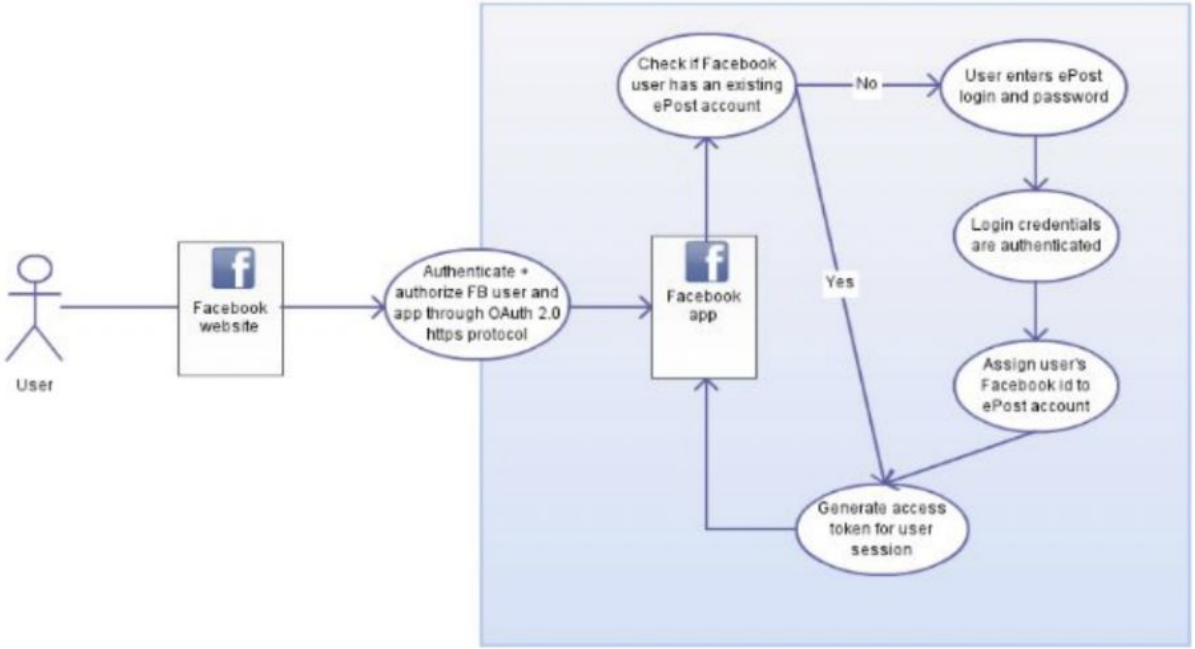
- Architecture design relevance
- Architecture design of Omni auth of google/fb



Architecture design



Architecture design



Thank you!