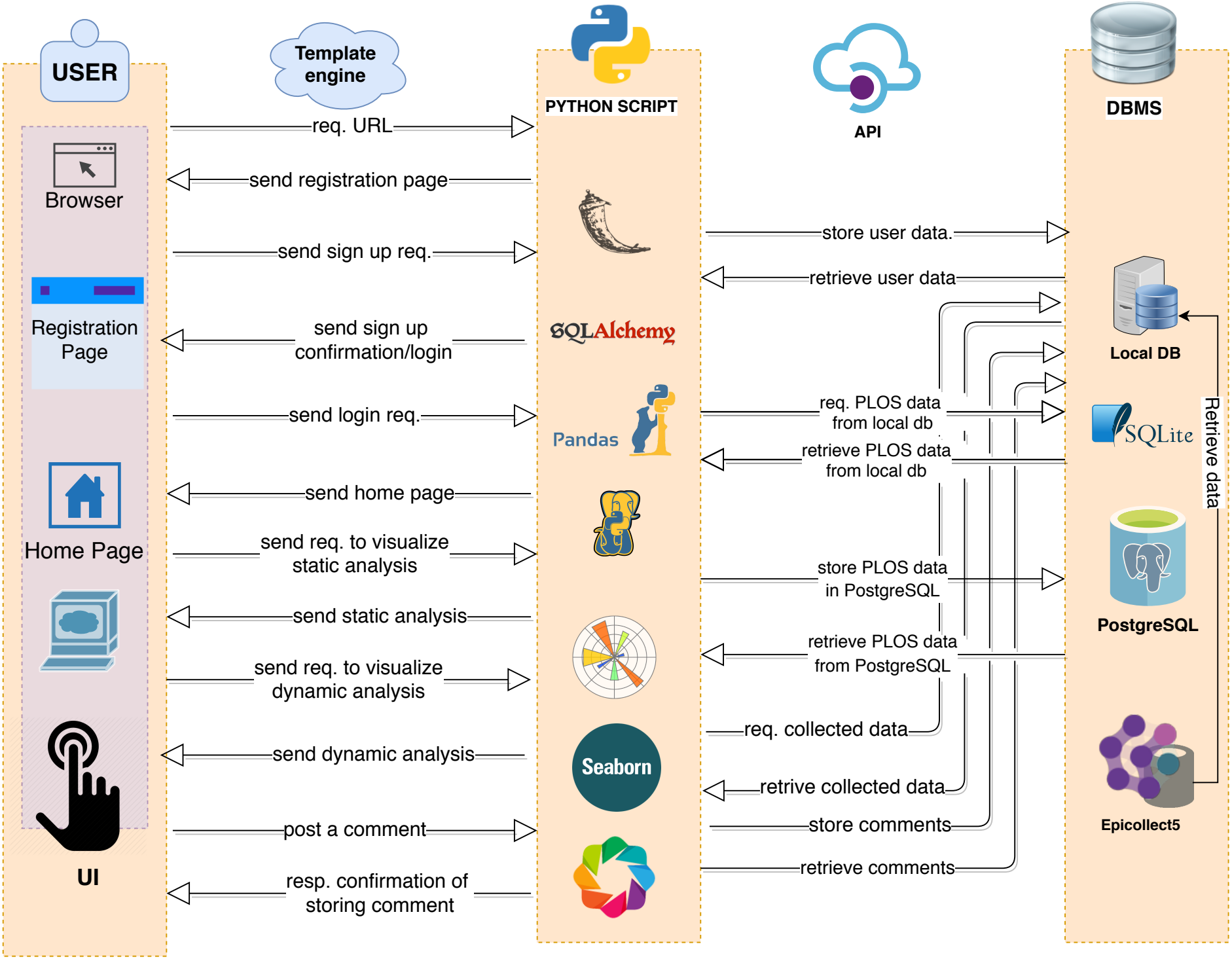
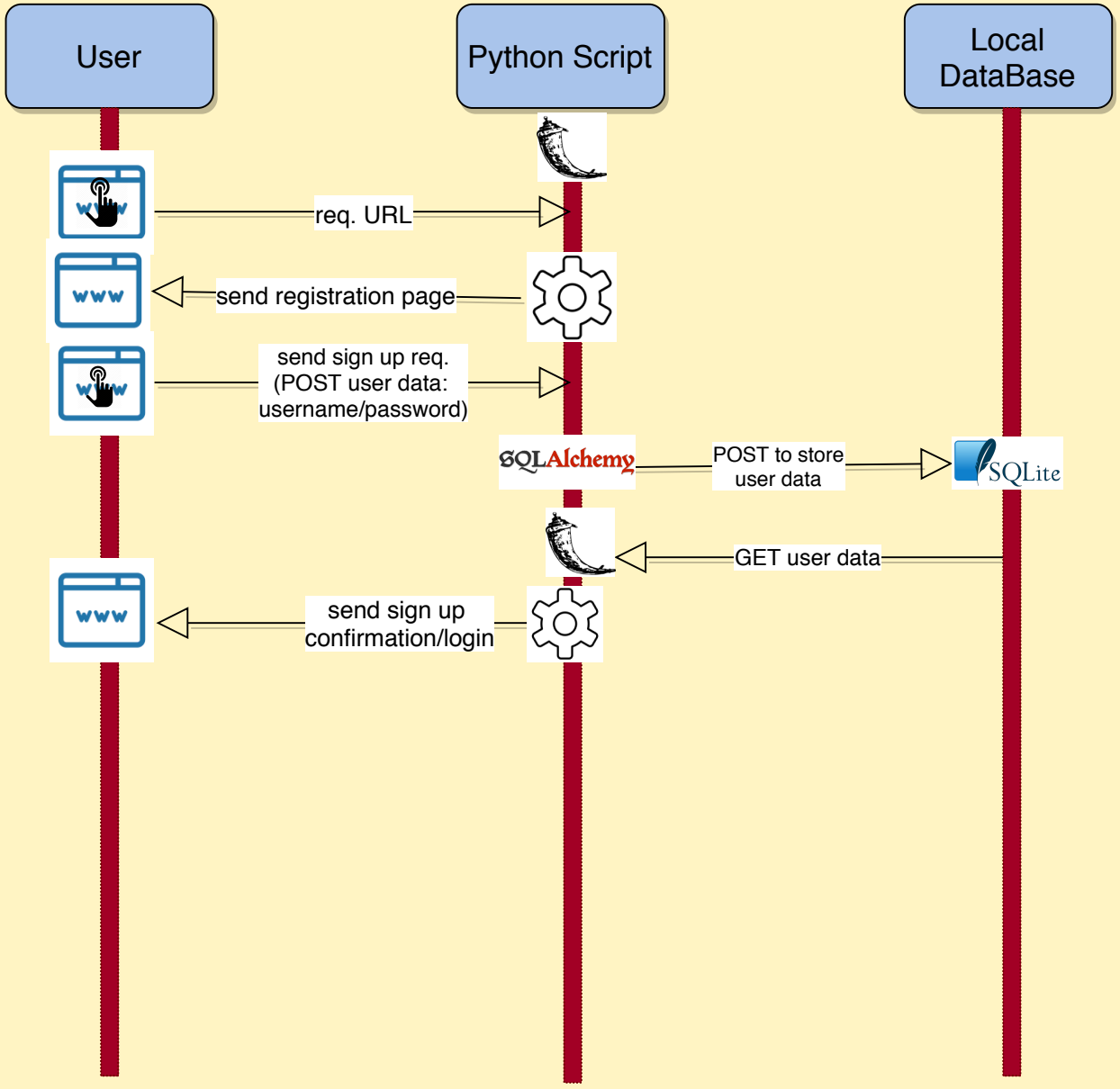
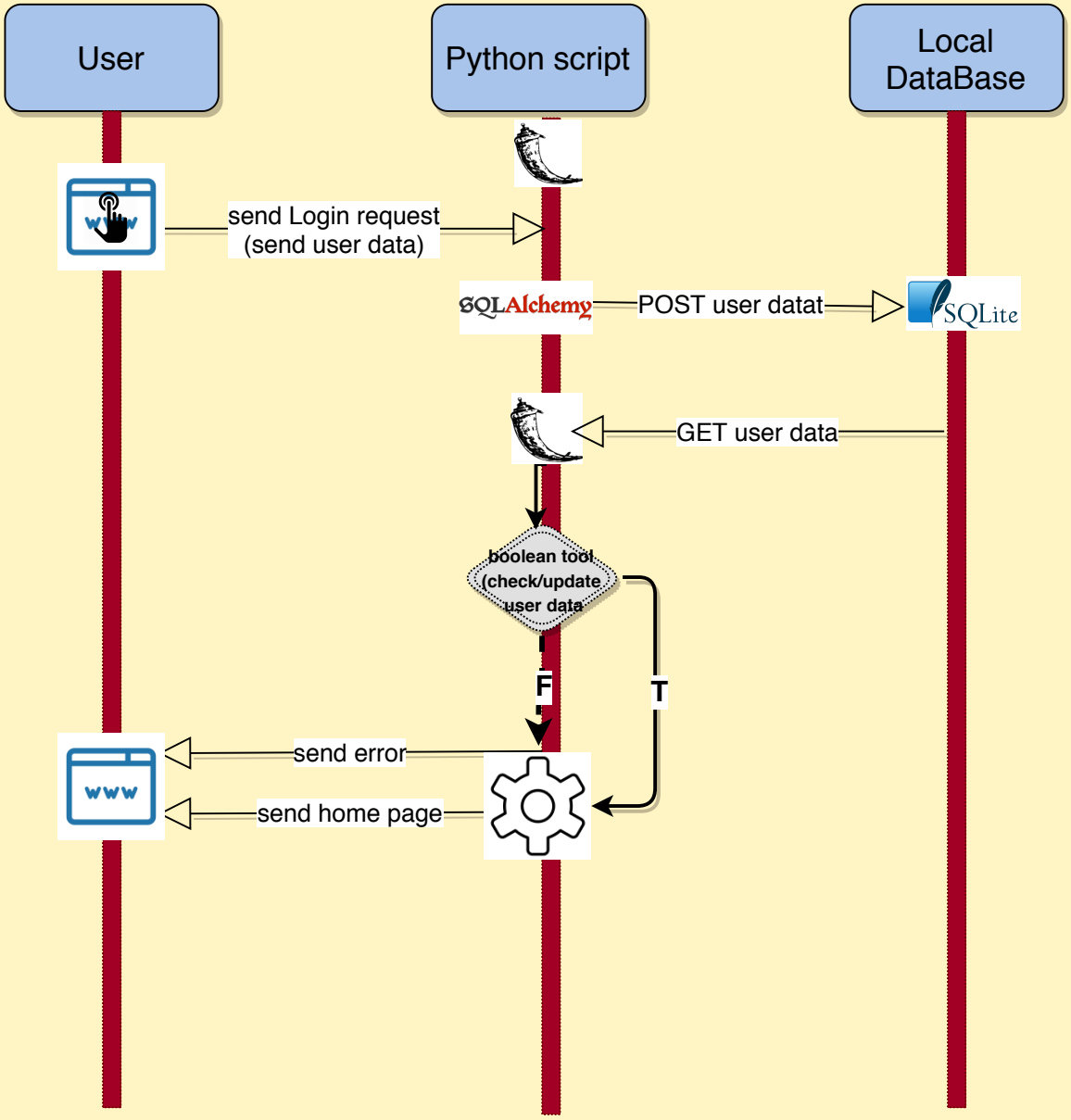
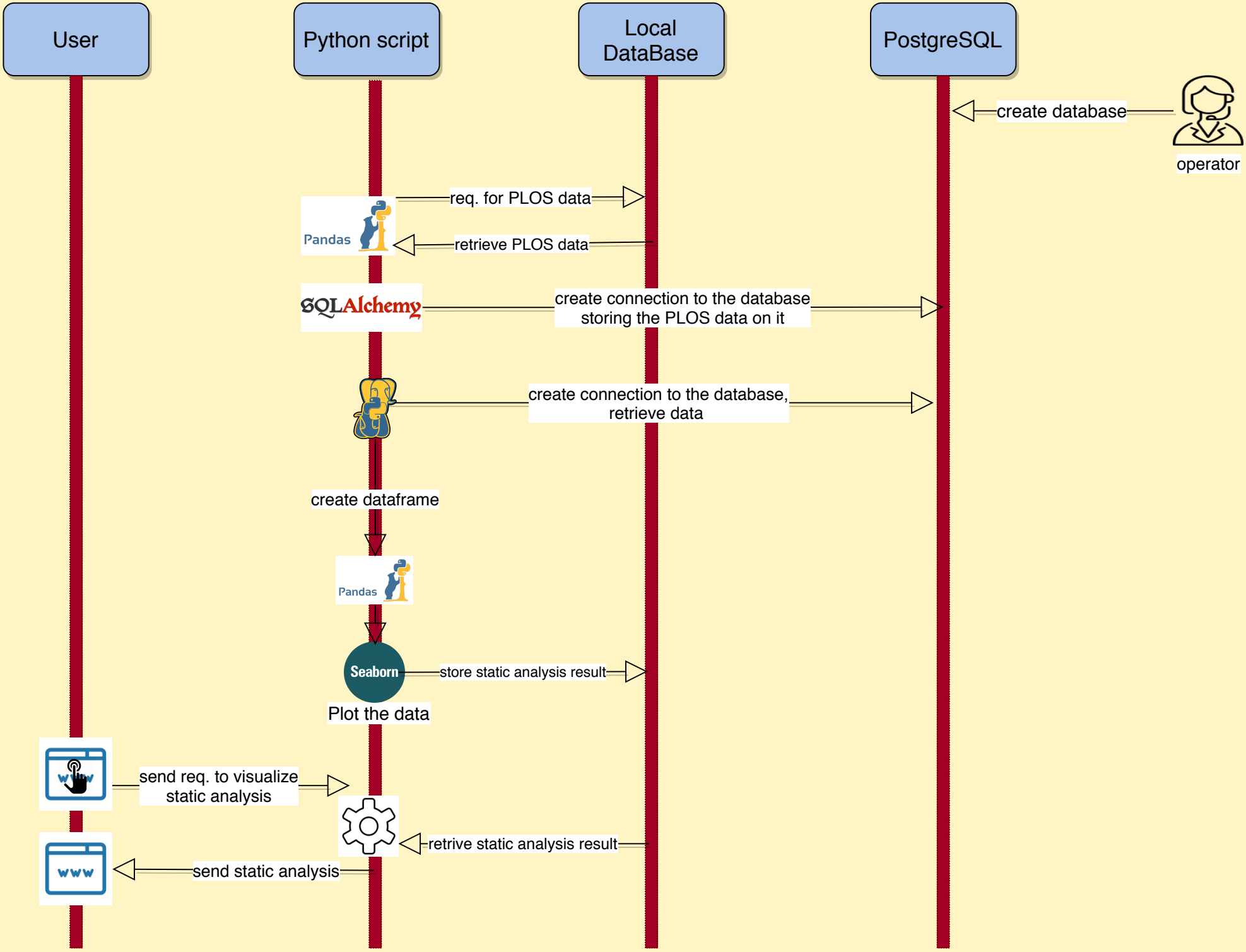
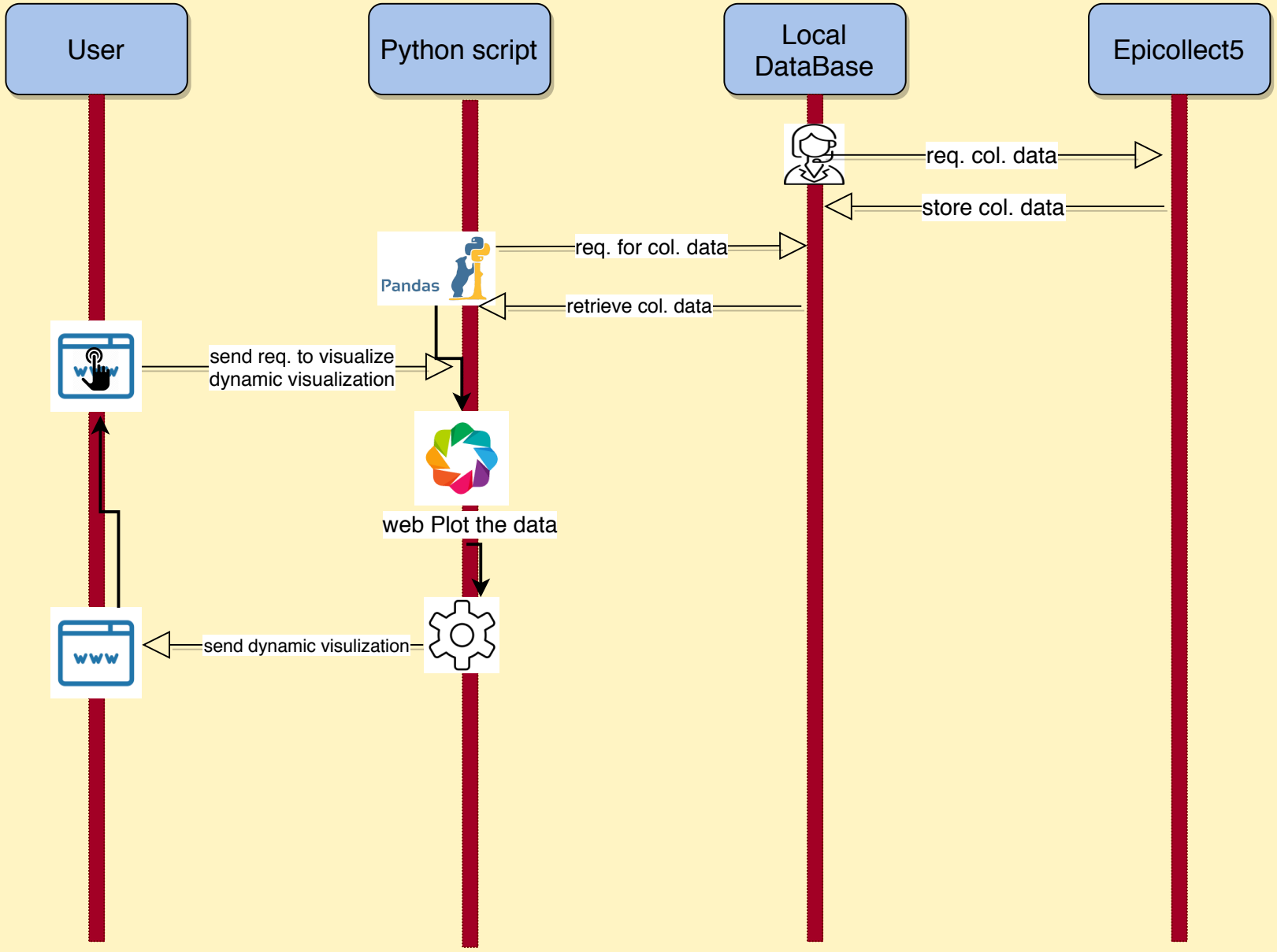
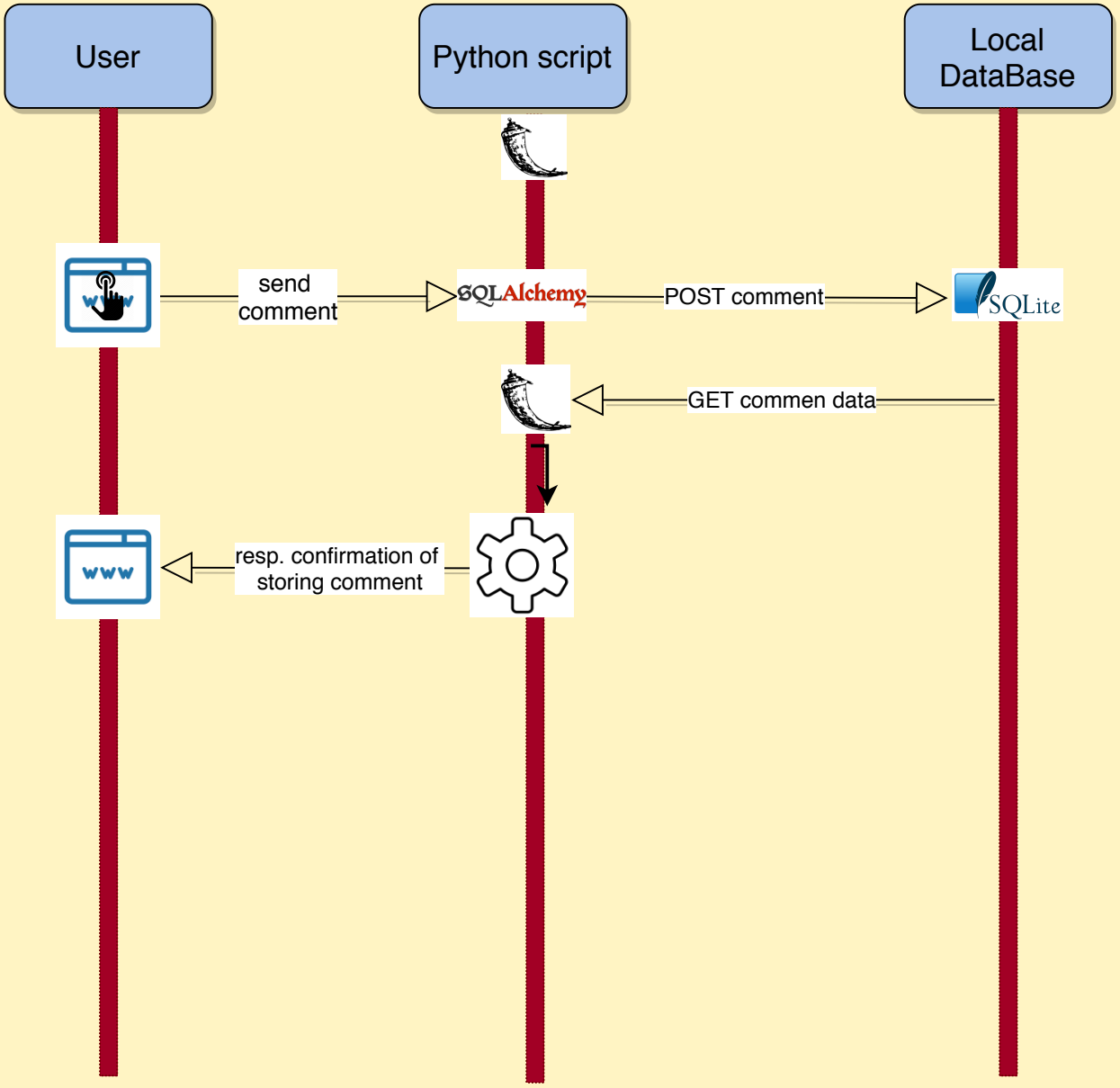

USER
Browser
Registration Page
Home Page
UI
Template engine
req. URL
send registration page
send sign up req.
send sign up confirmation/login
send login req.
send home page
send req. to visualize static analysis
send static analysis
send req. to visualize dynamic analysis
send dynamic analysis
post a comment
resp. confirmation of storing comment
PYTHON SCRIPT
SQLAlchemy
Pandas
Seaborn
API
store user data.
retrieve user data
req. PLOS data from local db
retrieve PLOS data from local db
store PLOS data in PostgreSQL
retrieve PLOS data from PostgreSQL
req. collected data
retrive collected data
store comments
retrieve comments
DBMS
Local DB
SQLite
PostgreSQL
Epicollect5
Retrieve data

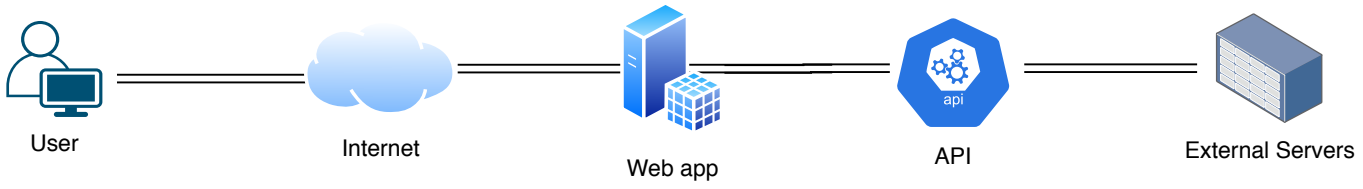

User
Python Script
Local DataBase
req. URL
send registration page
send sign up req. (POST user data: username/password)
SQLAlchemy
POST to store user data
SQLite
GET user data
send sign up confirmation/login


User
Python script
Local DataBase
send Login request
(send user data)
SQLAlchemy
POST user datat
SQLite
GET user data
boolean tool
(check/update
user data
F
T
send error
send home page


User
Python script
Local DataBase
PostgreSQL
create database
operator
req. for PLOS data
Pandas
retrieve PLOS data
SQLAlchemy
create connection to the database storing the PLOS data on it
create connection to the database, retrieve data
create dataframe
Pandas
Seaborn
store static analysis result
Plot the data
www
send req. to visualize static analysis
retrive static analysis result
www
send static analysis


User
Python script
Local DataBase
Epicollect5
req. col. data
store col. data
req. for col. data
Pandas
retrieve col. data
send req. to visualize dynamic visualization
web Plot the data
send dynamic visulization
www


User
Python script
Local DataBase
send comment
SQLAlchemy
POST comment
SQLite
GET commen data
resp. confirmation of storing comment


User
Internet
Web app
api
API
External Servers