

# What is Web Development

- ❖ Web development is the process of building website applications
- ❖ It includes using markup and scripting languages to create features and functionality, programming, constructing the layout and integrating applications and graphics



# Types of web Development

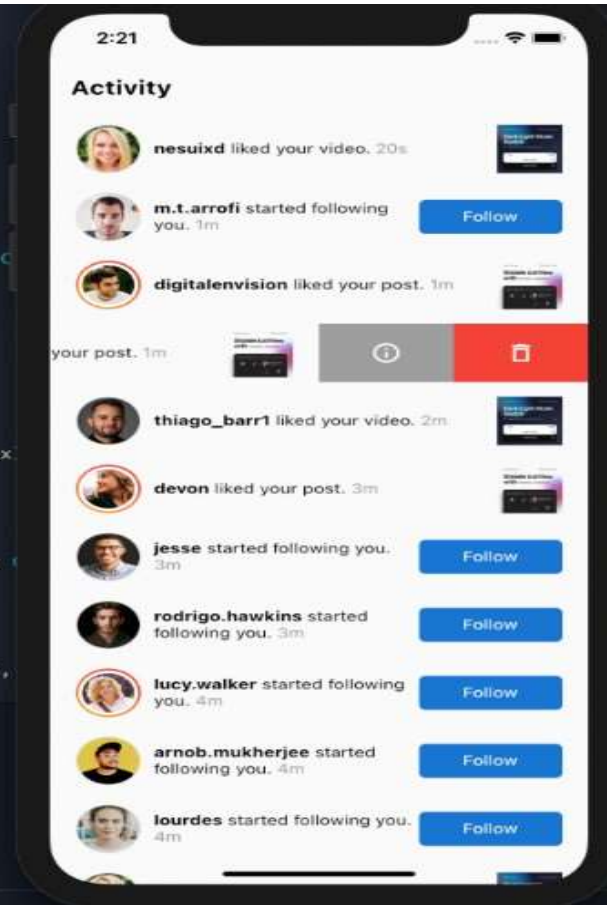
## Backend

```
42: //////////////////////////////////////////////////
43: /// @theflutterlover on Instagram
44: ///
45: /// https://afgprogrammer.com
46: //////////////////////////////////////////////////
47: @override
48: Widget build(BuildContext context) {
49:   return Scaffold(
50:     appBar: AppBar(
51:       elevation: 0,
52:       backgroundColor: Colors.transparent,
53:       title: Text("Activity", style: TextStyle(color: Colors.white)),
54:       centerTitle: false,
55:     ), // AppBar
56:     body: ListView.builder(
57:       itemCount: notifications.length,
58:       itemBuilder: (context, index) {
59:         return Slidable(
60:           actionPane: SlidableDrawerActionPane(),
61:           actionExtentRatio: 0.25,
62:           child: notificationItem(notifications[index]),
63:           secondaryActions: <Widget>[
64:             Container(
65:               height: 60,
66:               color: Colors.grey.shade500,
67:               child: Icon(Icons.info_outline, color: Colors.white),
68:             ), // Container
69:             Container(
70:               height: 60,
71:               color: Colors.red,
72:               child: Icon(Icons.delete_outline_sharp, color: Colors.white),
73:             ), // Container
74:           ],
75:         );
76:       },
77:     ),
78:   );
79: }
```

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL

Restarted application in 665ms.

## Frontend



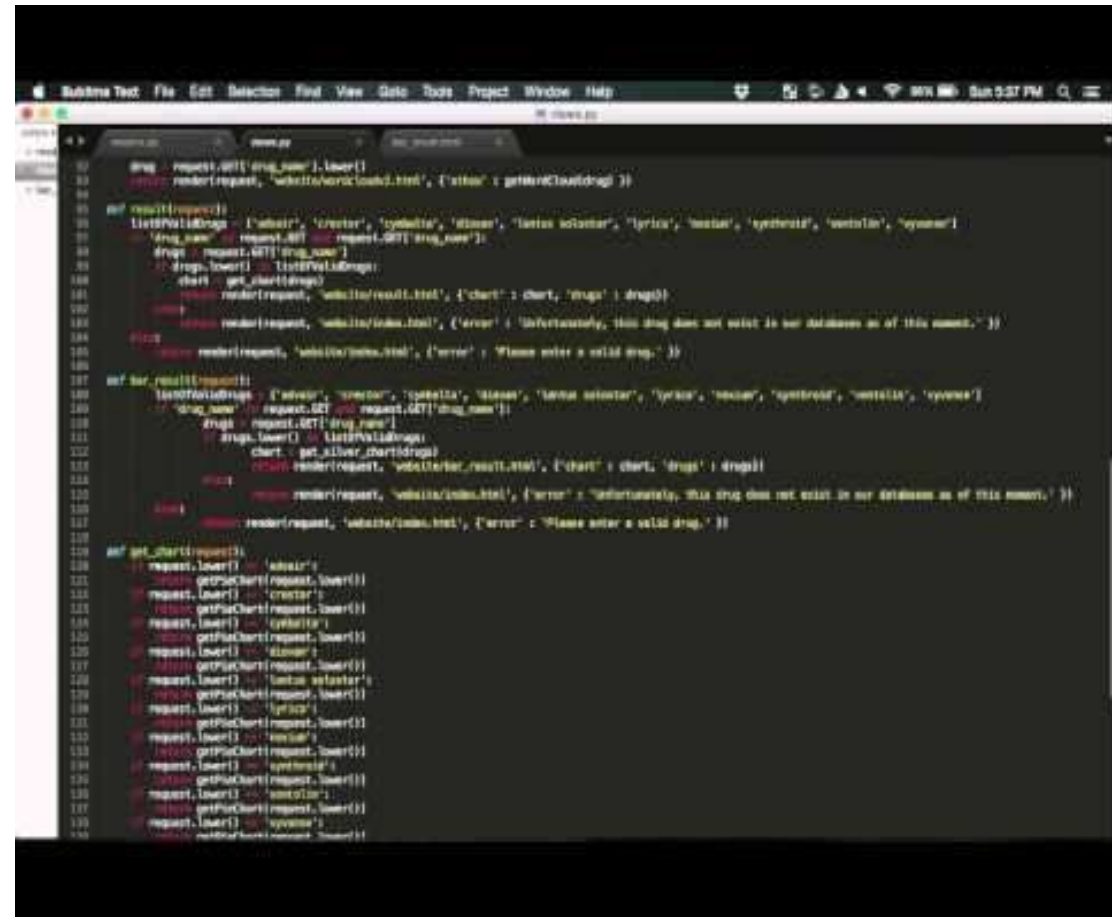
# What is Frontend

- ❖ Part of the website that the user directly interacts with
- ❖ Includes styling, graphics, text, alignment, navigation, colours etc
- ❖ Responsiveness and performance are two main objectives of the frontend



# what is Backend

- ❖ Backend is the server side of the website
- ❖ It includes activities like writing APIs, creating libraries, and working with system components
- ❖ It ensures data integrity and consistency
- ❖ Involves scripting and writing code to communicate with the database



```
10 drug = request.get('drug_name').lower()
11 return render(request, 'website/home.html', {'drug': drug})
12
13 def render(request):
14     list_of_drugs = ['aspirin', 'ibuprofen', 'paracetamol', 'amoxicillin', 'ciprofloxacin', 'clonidine', 'sildenafil', 'venlafaxine', 'gabapentin']
15     drug_name = request.GET.get('drug_name')
16     drugs = request.GET.get('drug_name')
17     chart = get_chart(drugs)
18     return render(request, 'website/home.html', {'chart': chart, 'drugs': drugs})
19
20 def render(request, 'website/home.html', {'error': 'Unfortunately, this drug does not exist in our database as of this moment.'})
21
22 def render(request, 'website/home.html', {'error': 'Please enter a valid drug.'})
23
24 def render(request):
25     list_of_drugs = ['aspirin', 'ibuprofen', 'paracetamol', 'amoxicillin', 'ciprofloxacin', 'clonidine', 'sildenafil', 'venlafaxine', 'gabapentin']
26     drug_name = request.GET.get('drug_name')
27     drugs = request.GET.get('drug_name')
28     chart = get_chart(drugs)
29     return render(request, 'website/home.html', {'chart': chart, 'drugs': drugs})
30
31 def render(request, 'website/home.html', {'error': 'Unfortunately, this drug does not exist in our database as of this moment.'})
32
33 def render(request, 'website/home.html', {'error': 'Please enter a valid drug.'})
34
35 def get_chart(request):
36     request.lower() == 'aspirin':
37         return get_chart(request.lower())
38     request.lower() == 'ibuprofen':
39         return get_chart(request.lower())
40     request.lower() == 'paracetamol':
41         return get_chart(request.lower())
42     request.lower() == 'amoxicillin':
43         return get_chart(request.lower())
44     request.lower() == 'ciprofloxacin':
45         return get_chart(request.lower())
46     request.lower() == 'clonidine':
47         return get_chart(request.lower())
48     request.lower() == 'sildenafil':
49         return get_chart(request.lower())
50     request.lower() == 'venlafaxine':
51         return get_chart(request.lower())
52     request.lower() == 'gabapentin':
53         return get_chart(request.lower())
54     return get_chart(request.lower())
```

## Library :

Collection of pre written code modules or functions that developers can use to add specific functionality to their application

## Framework :

Collection of pre written code tools that help developers build UI/UX of a website or web application

## HTML :

Hyper text markup language used to structure the content on web pages it provides a set of elements that define different parts of a web page such as headings, paragraphs, links, images, videos.

## CSS :

Cascading Style Sheets (CSS) is a style sheet language used for specifying the presentation and styling of a document written in a markup language such as HTML

## JAVASCRIPT :

JavaScript is a high-level, interpreted programming language. It is a text-based programming language used both on the client-side and server-side that allows you to make web pages interactive