

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

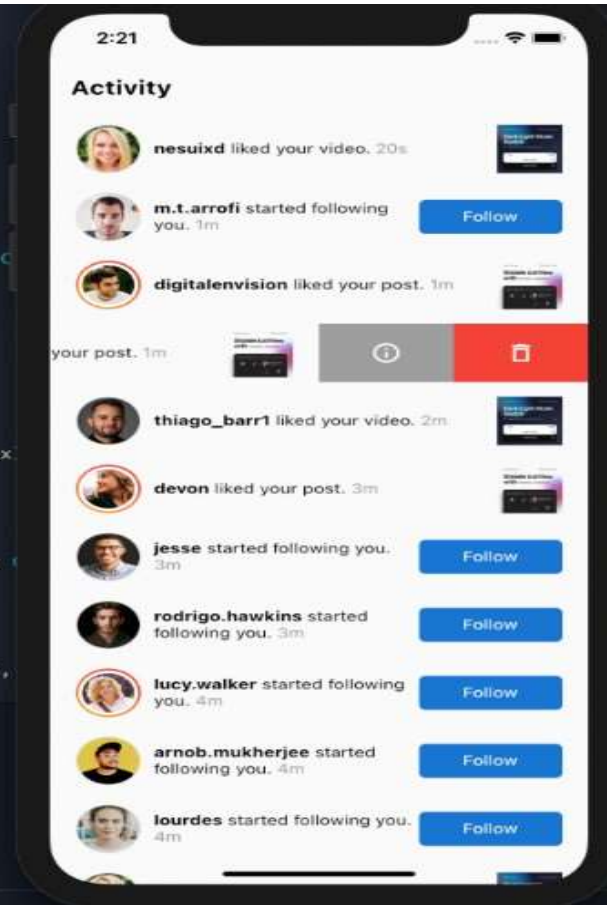
Backend

```
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



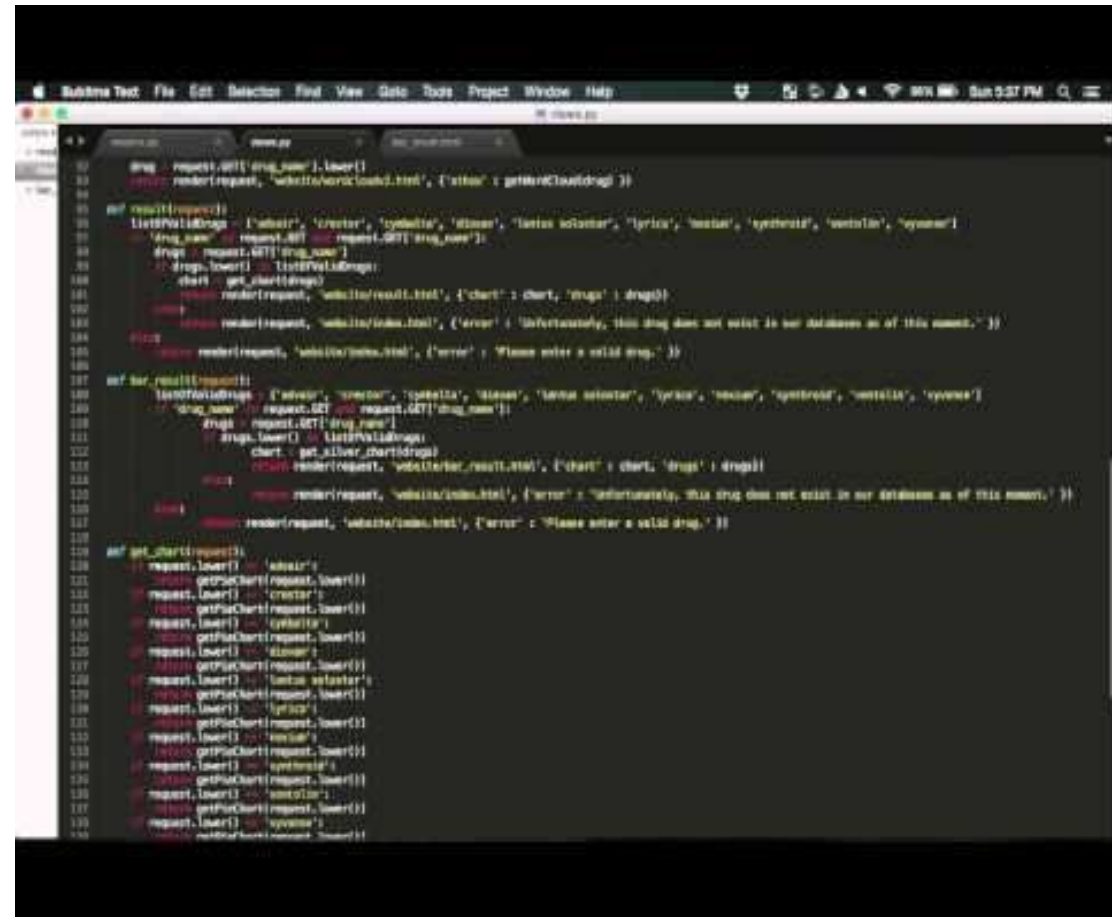
What is Frontend

- ❖ 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, 'title': 'get drug details'})
12
13 def render(request):
14     list_of_drugs = ['aspirin', 'ibuprofen', 'paracetamol', 'amoxicillin', 'ciprofloxacin', 'clonidine', 'sildenafil', 'venlafaxine', 'gabapentin']
15     drug_name = request.GET['drug_name'].lower()
16     drug = request.GET['drug_name']
17     drugs_lower = [drug.lower() for drug in list_of_drugs]
18     chart = get_chart(drug)
19     return render(request, 'website/home.html', {'chart': chart, 'drugs': drugs_lower})
20
21 def render(request, 'website/home.html', {'error': 'Unfortunately, this drug does not exist in our database as of this moment.'})
22
23 def render(request, 'website/home.html', {'error': 'Please enter a valid drug.'})
24
25 def render(request):
26     list_of_drugs = ['aspirin', 'ibuprofen', 'paracetamol', 'amoxicillin', 'ciprofloxacin', 'clonidine', 'sildenafil', 'venlafaxine', 'gabapentin']
27     drug_name = request.GET['drug_name'].lower()
28     drug = request.GET['drug_name']
29     drugs_lower = [drug.lower() for drug in list_of_drugs]
30     chart = get_chart(drug)
31     return render(request, 'website/home.html', {'chart': chart, 'drugs': drugs_lower})
32
33 def render(request, 'website/home.html', {'error': 'Unfortunately, this drug does not exist in our database as of this moment.'})
34
35 def render(request, 'website/home.html', {'error': 'Please enter a valid drug.'})
36
37 def get_chart(request):
38     request.lower() = 'aspirin'
39     return get_chart(request.lower())
40
41 request.lower() = 'ibuprofen'
42 return get_chart(request.lower())
43
44 request.lower() = 'paracetamol'
45 return get_chart(request.lower())
46
47 request.lower() = 'amoxicillin'
48 return get_chart(request.lower())
49
50 request.lower() = 'ciprofloxacin'
51 return get_chart(request.lower())
52
53 request.lower() = 'clonidine'
54 return get_chart(request.lower())
55
56 request.lower() = 'sildenafil'
57 return get_chart(request.lower())
58
59 request.lower() = 'venlafaxine'
60 return get_chart(request.lower())
61
62 request.lower() = 'gabapentin'
63 return get_chart(request.lower())
64
65 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