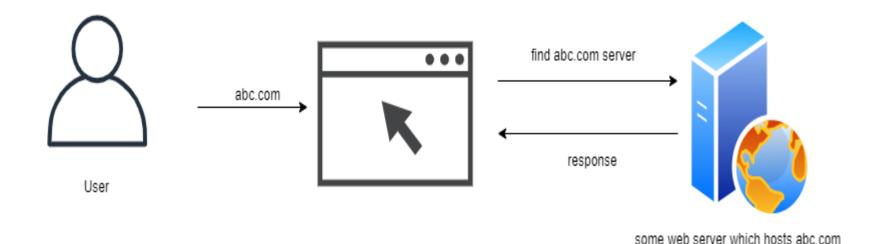
Mobile Application Development

SEMESTER PROJECT GUIDELINE

What does Full-stack mean?

- Full-stack includes Front-end, Back-end, Mobile Development and Deployment. All in one.
- In this semester project, this is our aim.
- We are already familiar with TypeScript, JavaScript and Angular. That is all we need to build a full stack solution.

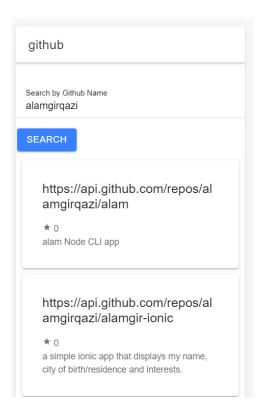
Let talk a little about How Apps/Website work?



- Most mobile apps are often linked to a web server.
- The web server could be any server written in any language e.g. PHP, C#, Java, Node.js, Golang, Rust, Elixir, C++.
- The mobile app usually communicates with the web server / backend using REST API.

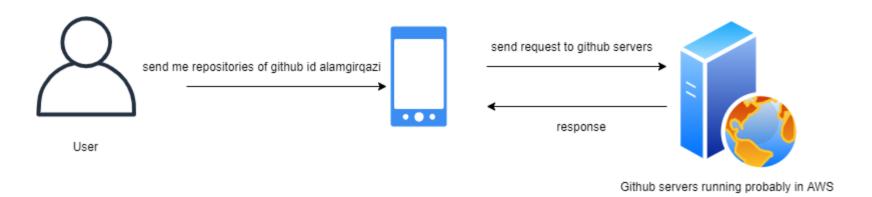
- REST API is a protocol that allows us to communicate with a server using HTTP.
- REST API is basically GET, PUT, POST, DELETE http methods.
- In previous class, we used REST apis. In one example, we displayed Quotes, and in another, we used Github's REST api and displayed list of repositories.

```
xport class GithubPage implements OnInit {
 private datalistingService: DatalistingService,
 private loadingController: LoadingController
) {}
search() {
 this.getGithubRepos(this.githubname);
getGithubRepos(name) {
  this.loading = true;
  this.repos.length = 0;
  console.log('get');
      this.repos = data;
      console.log('data', data);
      this.loading = false;
      this.repos.length = 0;
      console.log('error', error);
```



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Whats happening here?



■ We sent this HTTP request https://api.github.com/users/alamgirqazi/repos

So how can we set this up?

In order to set this up on our own, we will need

- a Mobile App (Ionic, Angular).
- a web server (Node.js).
- A Web App using Angular (entirely optional)

This how most companies build their applications. All this tech using just JavaScript language.

Full Stack Solution

