

Day #2



Hello!

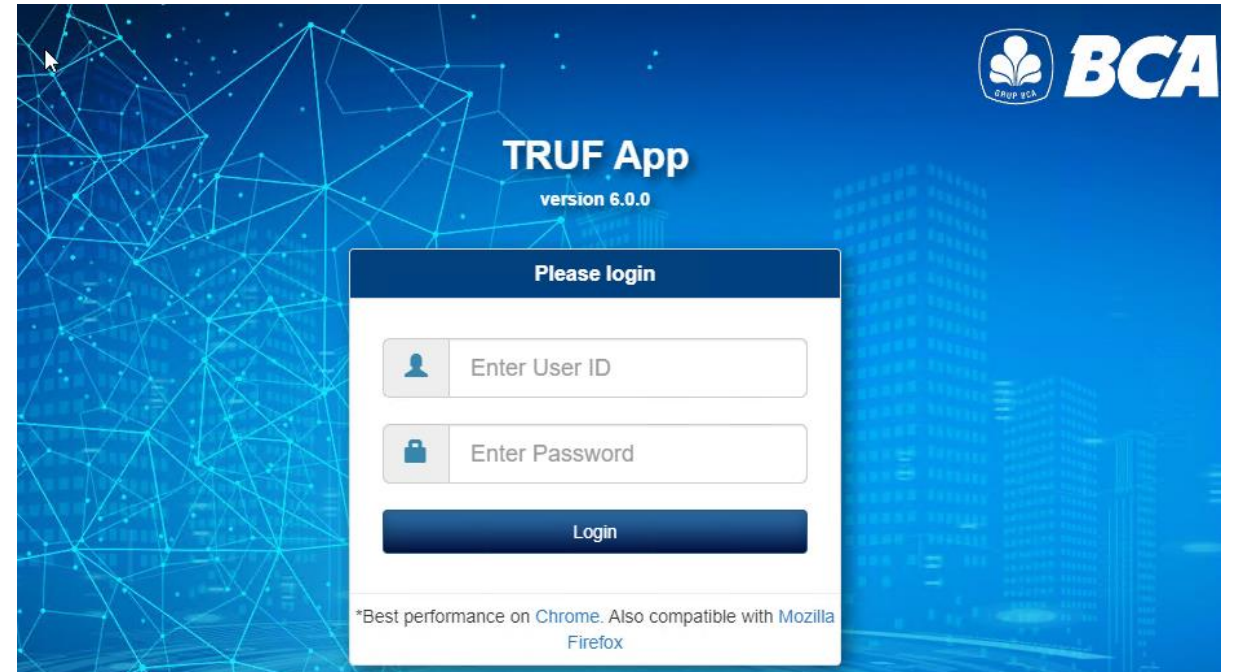
Chandra Wijaya

IT Analyst

A full stack web developer, designer, husband, father, forever learner, coffee addict.



My Projects @BCA

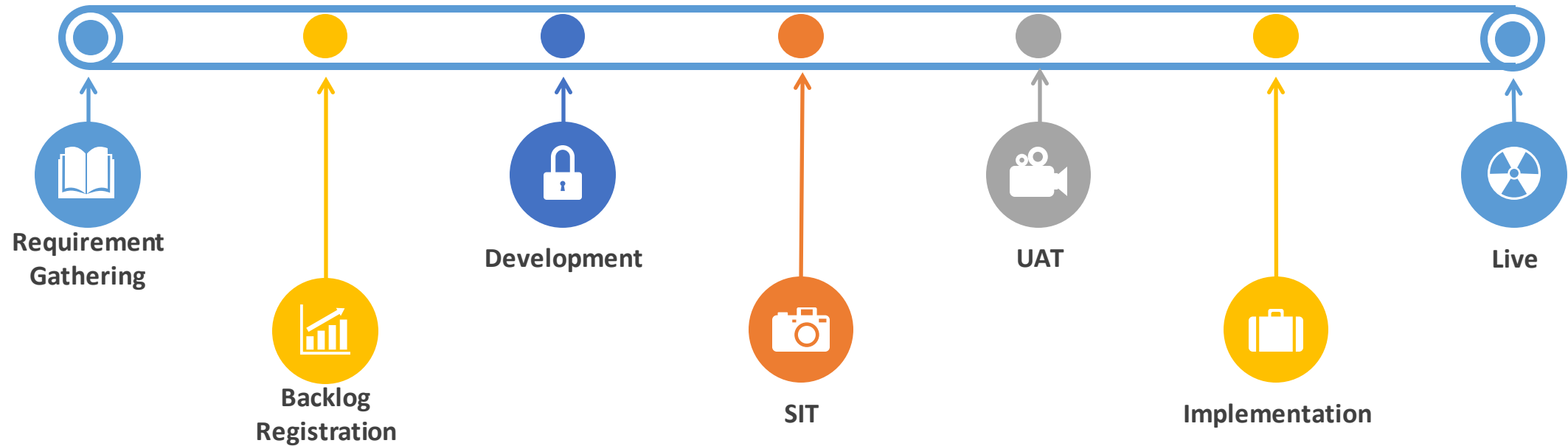


And other supporting projects (AINI, skeleton projects, SQL etc)

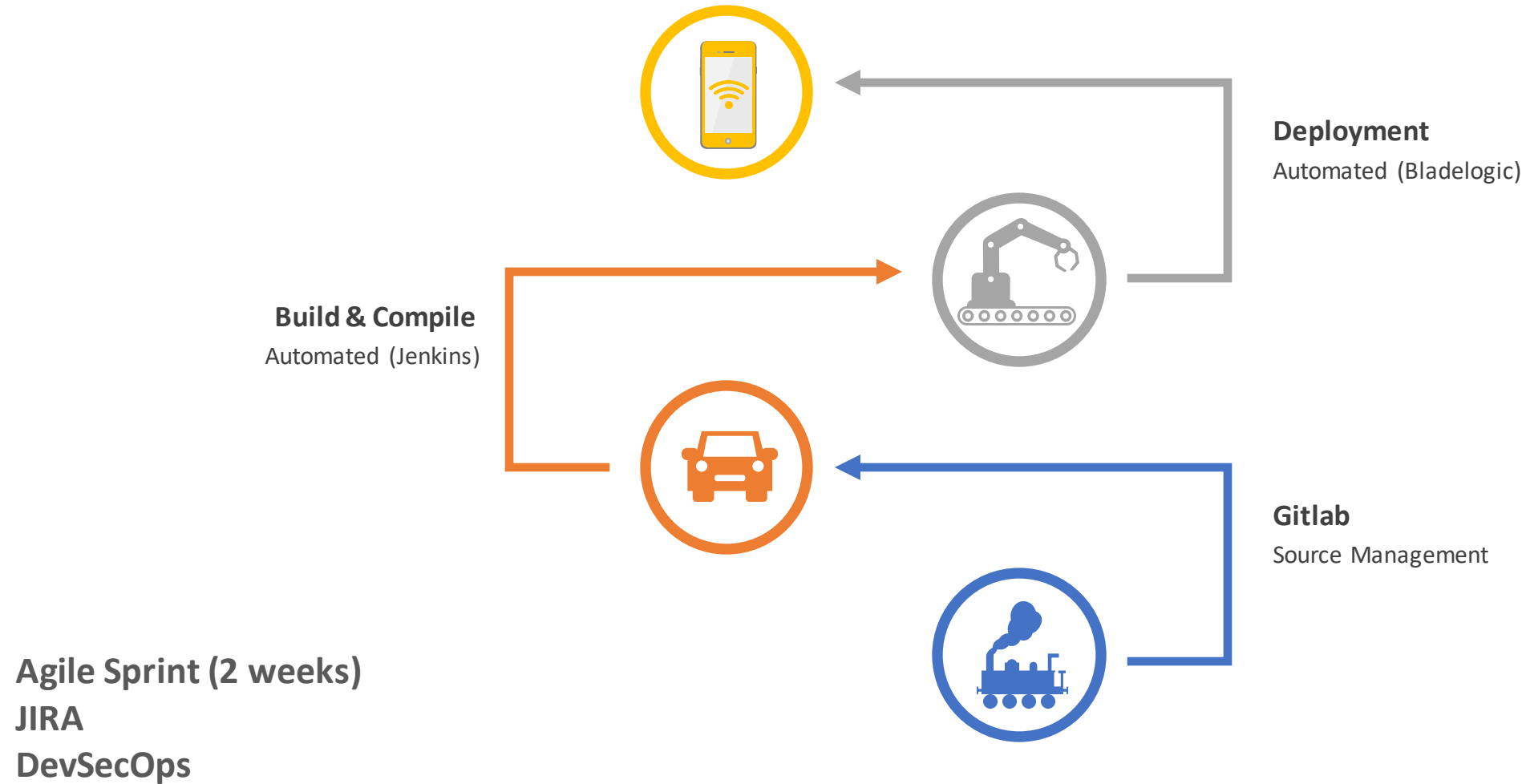
Agenda

- Introduction
- What we do @BCA
- Development Process
- A glimpse of theory
- Web Security
- Project overview
- Labs
- Q&A

Project Development @BCA



Dev Process @BCA



What we're gonna do today

- Full stack development
- Security engineering

DevSec

Basic Knowledge

- Git
- Maven
- Java (Spring)
- Javascript
- API Concepts
- JWT
- Your IDE

Disclaimer

- I'm assuming you have basic knowledge of the tools and stacks
- Minimum theory presentation
- Full code will be shown not snippets, we will work together on it
- Base project has already been provided
- This is a simple project, not production ready guidelines!

Prerequisites

- Git
- Maven
- JDK
- IDE(VSCode or similar)
- NPM & Node
- PostgreSQL
- **Internet**

Useful Resources

- Vuejs (<https://vuejs.org/>, https://www.udemy.com/share/101WASAEMYcFdQTXo=)
- TailwindCSS (<https://tailwindcss.com/>)
- Spring (<https://spring.io/> , <https://www.baeldung.com/spring-tutorial>)
- Javascript and web (<https://www.freecodecamp.org/learn>)
- OAuth2 (<https://darutk.medium.com/the-simplest-guide-to-oauth-2-0-8c71bd9a15bb>)
- JWT (<https://jwt.io/introduction>)
- Spring Boot VueJS (<https://bezkoder.com/spring-boot-vue-js-crud-example/>)

Theories, just a bit.

- Why Spring?
- What is VueJS?
- What is TailwindCSS?
- Why application security?

EC-Council

**Learn Application
Security in 5 Minutes!**

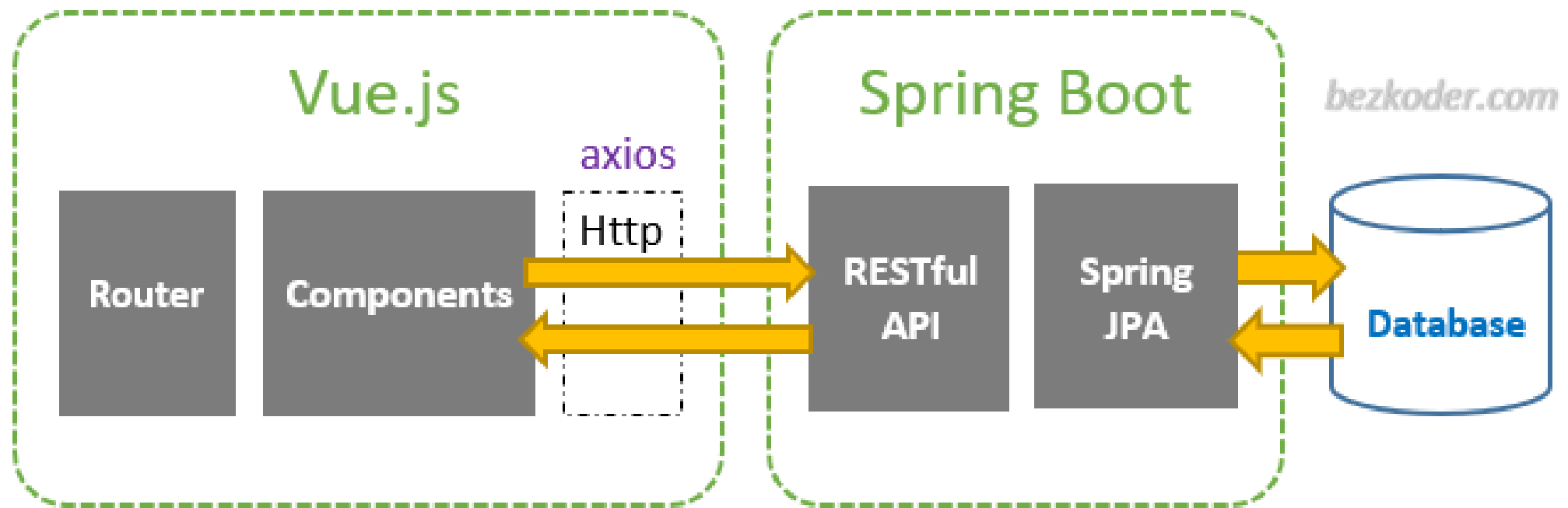
Securing your application

- Because it matters. Nothing is 100% safe
- Modern web architecture relies on API
- Many developers deprioritize security aspect on their applications

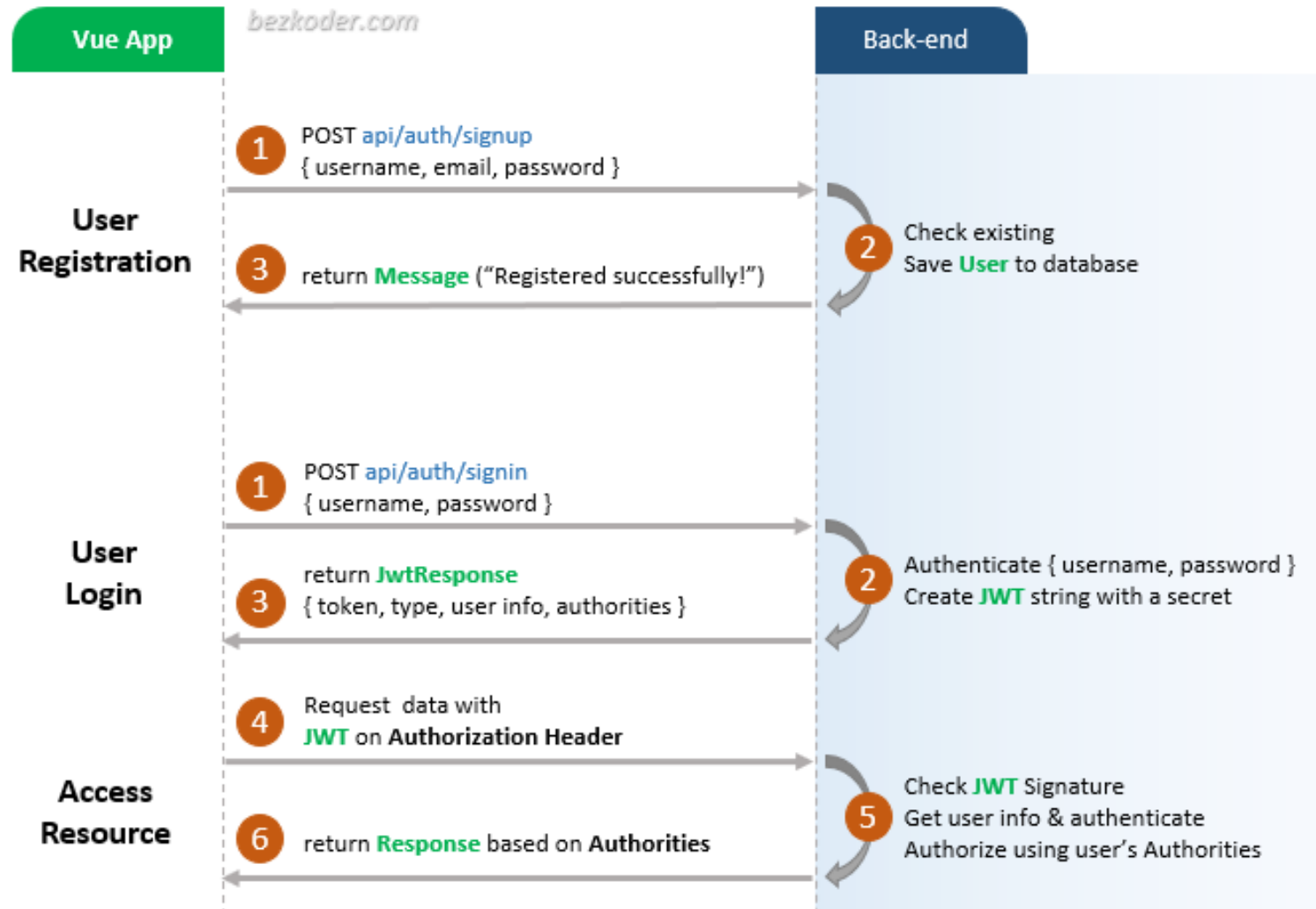
Played Scenarios

- Cross ownership (IDOR)
- Unauthorized access
- CORS
- ~~XSS~~
- ~~SQL Injection~~
- ~~File Malware Upload~~
- ~~HPP (HTTP Parameter Pollution)~~
- ~~Header Manipulations~~

Project architecture



Application Flow



Let's start coding!

```
git clone --branch material https://github.com/chandragie/bcaitworks.git
```

```
mvn clean spring-boot:run
```

```
npm install
```

```
npm install -D tailwindcss@npm:@tailwindcss/postcss7-compat  
@tailwindcss/postcss7-compat postcss@^7 autoprefixer@^9
```

```
npm run serve
```

```
return !question ? thankyou = () => {  
    keepLearning();  
}:ask();
```

