



Sprint 2 Delivery

Group 2 | RB-03



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Recap

- Requirements + Use cases
- Low-code research
- Planned architecture research

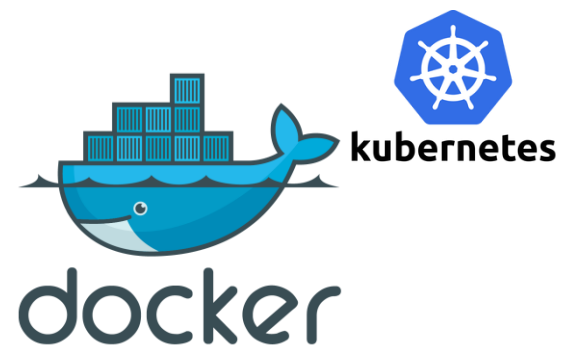




Activities

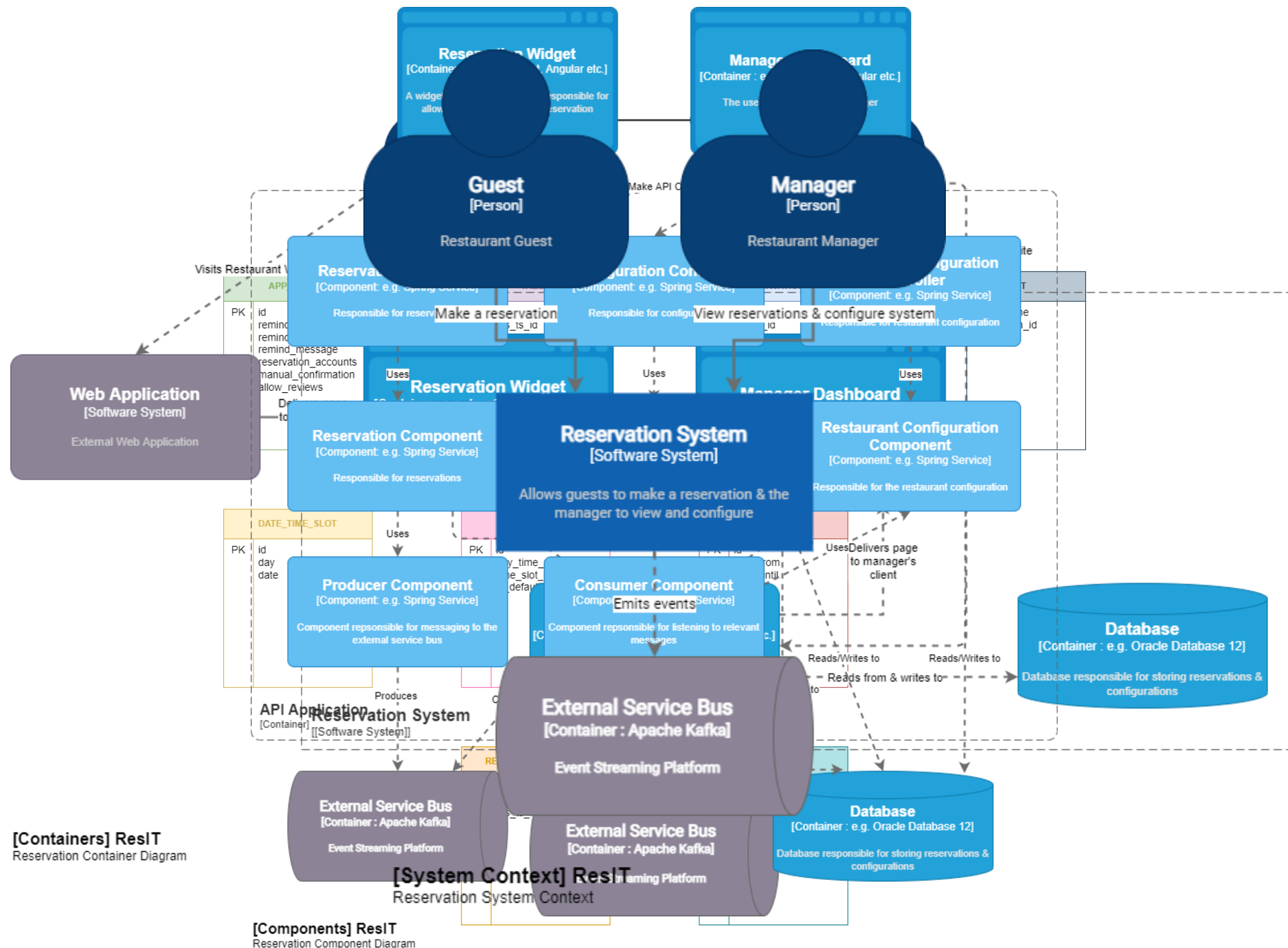
- Architecture research
- Architecture
- Road map
- Ethical design report
- Tech stack
- Start on frontend and backend
- Setting up database
- CI/CD
- Staging environment







Architecture



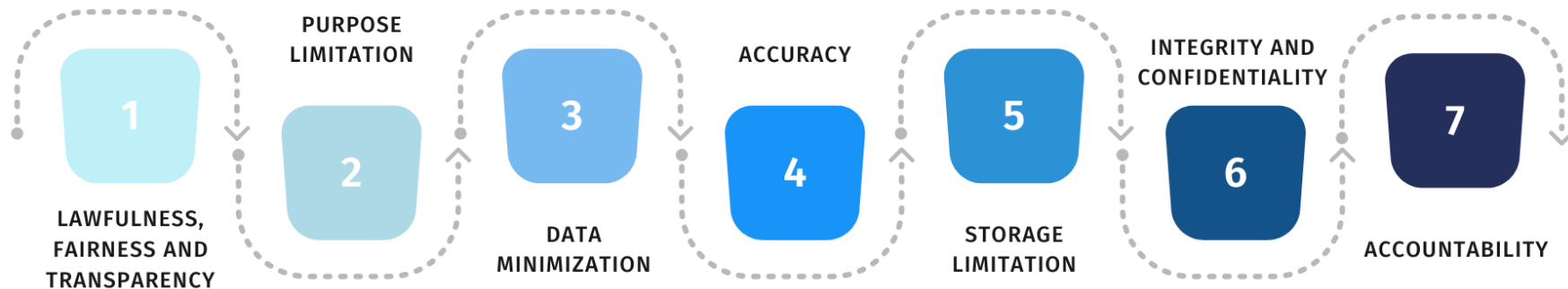


Research



How can data be handled safely and according to GDPR regulations

- Consent
- Transparency
- Data protection officer





What are commonly used enterprise architectures and their advantages/disadvantages?

- Layered architecture
 - Not scalable
 - Messy
 - + Easy
- Event-driven architecture
 - + Scalable
 - + Extendable
 - Difficult error handling
- Microkernel architecture
 - + Flexible/Customizable
 - Difficult
- Microservices architecture
 - + Scalable
 - + Maintainable
 - + Flexible
 - + Extendable
- Client-server architecture
 - + Flexible
 - + Multiple clients
 - + Secure
 - Single point of failure
 - High maintenance





What can you do to make a project more transferable?

- Good documentation
 - Thought process and choices
- Write easy to understand code
 - Use comments
- Refer to external documentation
- Use a README
 - Explain setup and how to install the project





How do you make an application performant & horizontal scalable?

- Unit & integration tests
- Logging & monitoring
- Bundling files together
- Use stateless applications
- Load balancer
- Asynchronous communication





Demo



What's next

- Research on service bus
- Prototype
- Load and performance tests





**Thanks for
listening!**