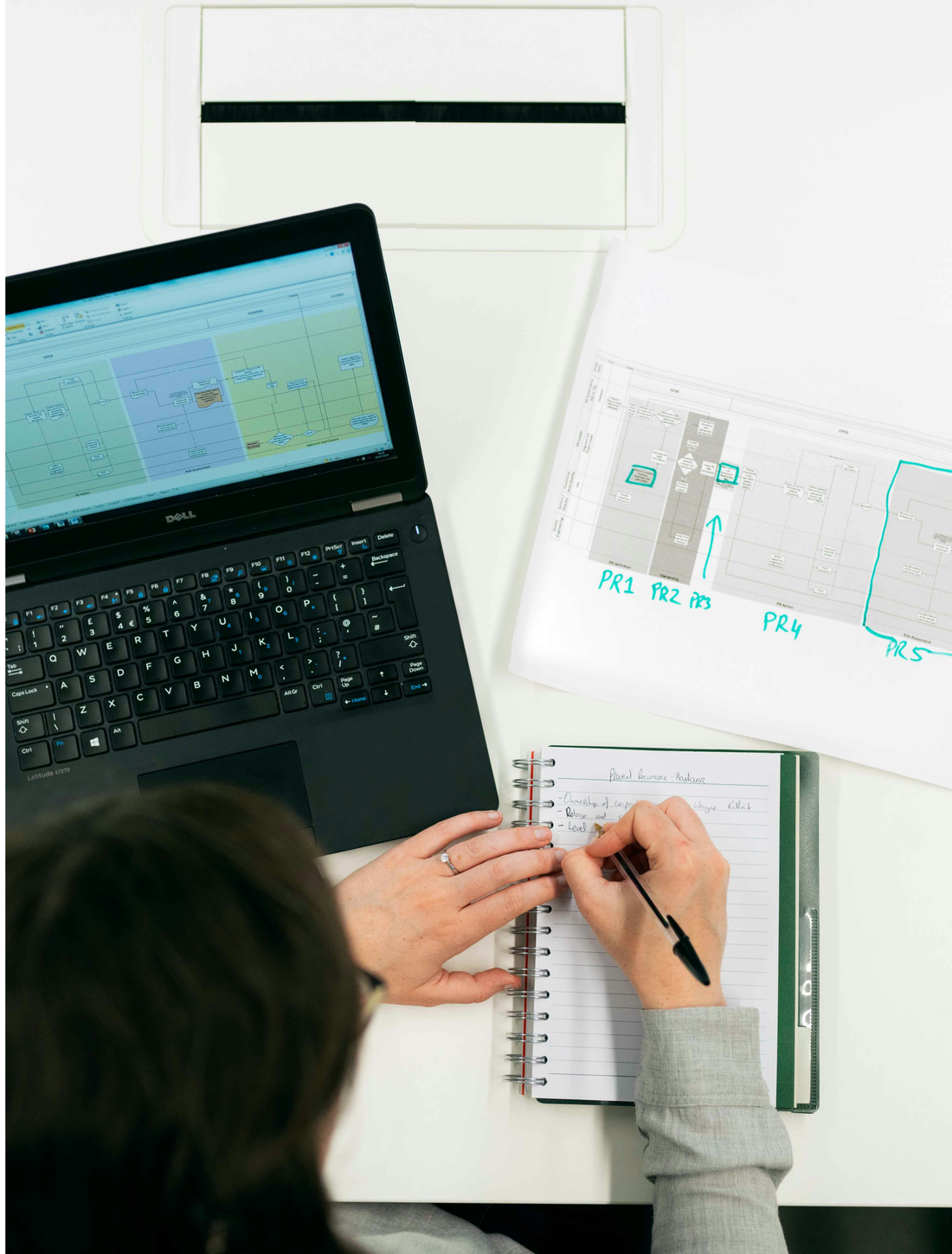
Fundamentals of FRONTEND ARCHITECTURE

WHAT IS FRONTEND ARCHITECTURE?



“A system’s software architecture is the set of significant design decisions about how the software is organized to promote desired quality attributes and other properties.”

“A system’s frontend architecture is the set of significant design decisions about how its frontend layer is organized to promote desired quality attributes and other properties.”

“ FRONTEND ARCHITECTURE IS ABOUT THE IMPORTANT FRONTEND STUFF...

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WHATEVER THAT IS.”

FRONTEND

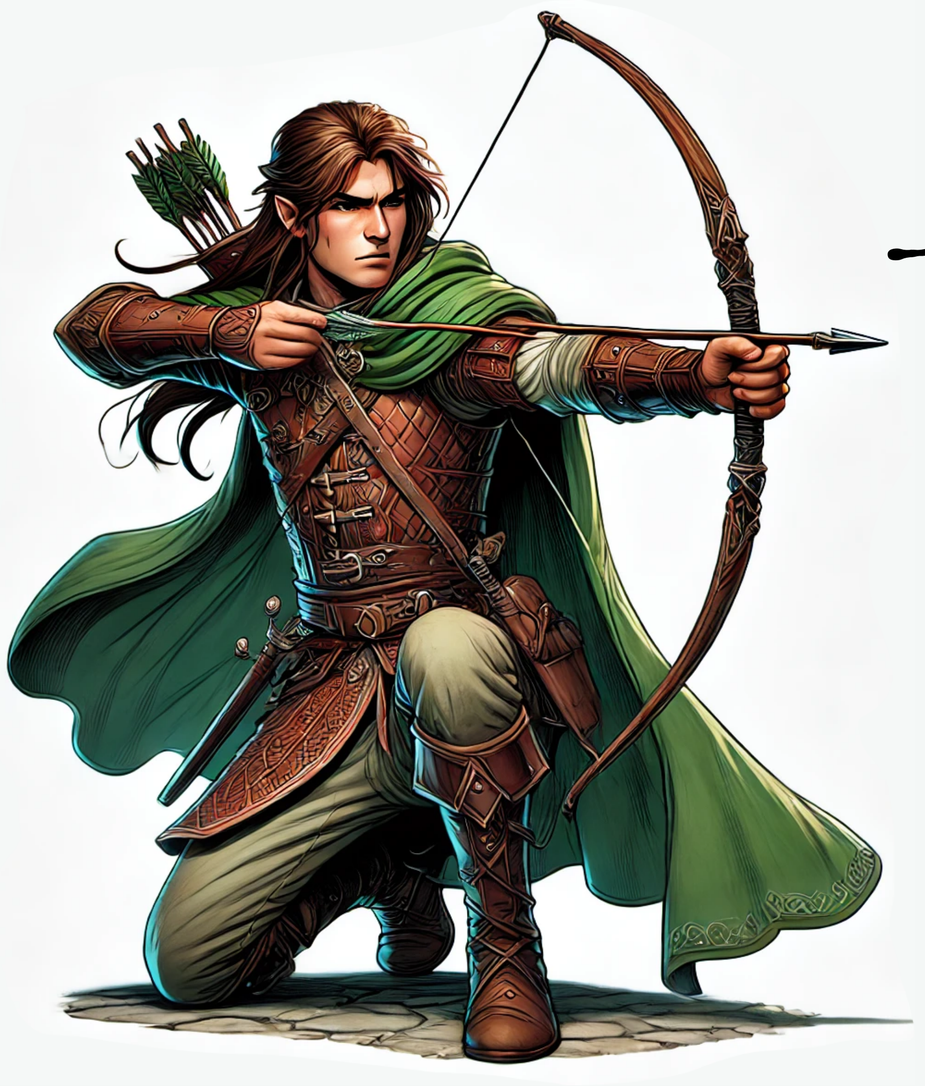
FRONTEND / BACKEND

FRONTEND

BACKEND

ARCHITECTURAL STYLE

ARCHITECTURAL CHARACTERISTICS



ARCHITECTURAL DECISIONS

LOGICAL COMPONENTS

	Architecture 1	Architecture 2
Architectural Style		
Architectural Characteristics		
Architectural Decisions		
Logical Components		

	Architecture 1	Architecture 2
Architectural Style	Micro-Frontends	
Architectural Characteristics		
Architectural Decisions		
Logical Components		

	Architecture 1	Architecture 2
Architectural Style	Micro-Frontends	
Architectural Characteristics	Scalability Deployability Maintainability	
Architectural Decisions		
Logical Components		

	Architecture 1	Architecture 2
Architectural Style	Micro-Frontends	
Architectural Characteristics	Scalability Deployability Maintainability	
Architectural Decisions	Share global state with signals Compose MFEs client-side	
Logical Components		

	Architecture 1	Architecture 2
Architectural Style	Micro-Frontends	
Architectural Characteristics	Scalability Deployability Maintainability	
Architectural Decisions	Share global state with signals Compose MFEs client-side	
Logical Components	Models, Collections, Views, Templates, Classes	

	Architecture 1	Architecture 2
Architectural Style	Micro-Frontends	Monolithic RSC
Architectural Characteristics	Scalability Deployability Maintainability	
Architectural Decisions	Share global state with signals Compose MFEs client-side	
Logical Components	Models, Collections, Views, Templates, Classes	

	Architecture 1	Architecture 2
Architectural Style	Micro-Frontends	Monolithic RSC
Architectural Characteristics	Scalability Deployability Maintainability	Performance Agility Reliability
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Logical Components	Models, Collections, Views, Templates, Classes	

	Architecture 1	Architecture 2
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Architectural Characteristics	Scalability Deployability Maintainability	Performance Agility Reliability
Architectural Decisions	Share global state with signals Compose MFEs client-side	Share global state with a store Mutate data with server actions
Logical Components	Models, Collections, Views, Templates, Classes	

	Architecture 1	Architecture 2
Architectural Style	Micro-Frontends	Monolithic RSC
Architectural Characteristics	Scalability Deployability Maintainability	Performance Agility Reliability
Architectural Decisions	Share global state with signals Compose MFEs client-side	Share global state with a store Mutate data with server actions
Logical Components	Models, Collections, Views, Templates, Classes	Client Components, Server Components, Hooks, Services