

AI 大模型开发工程师 LangChain全面剖析之Chains

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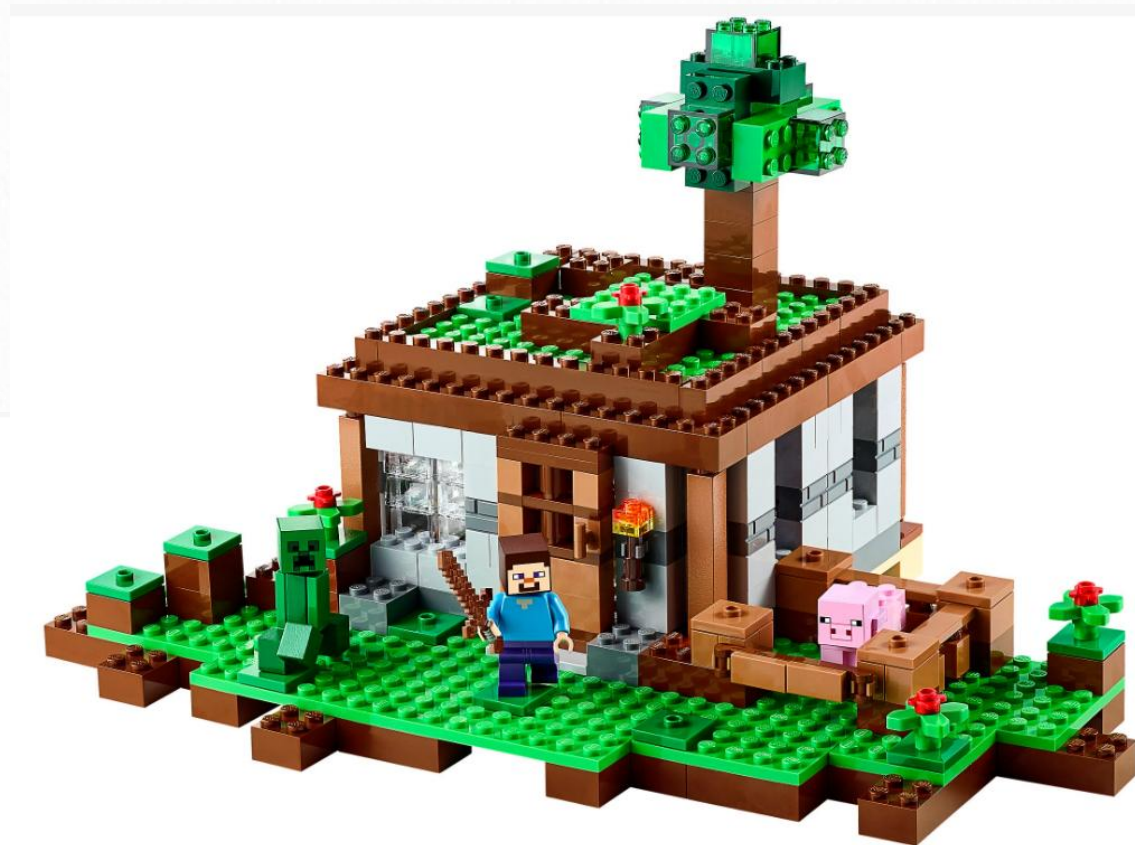
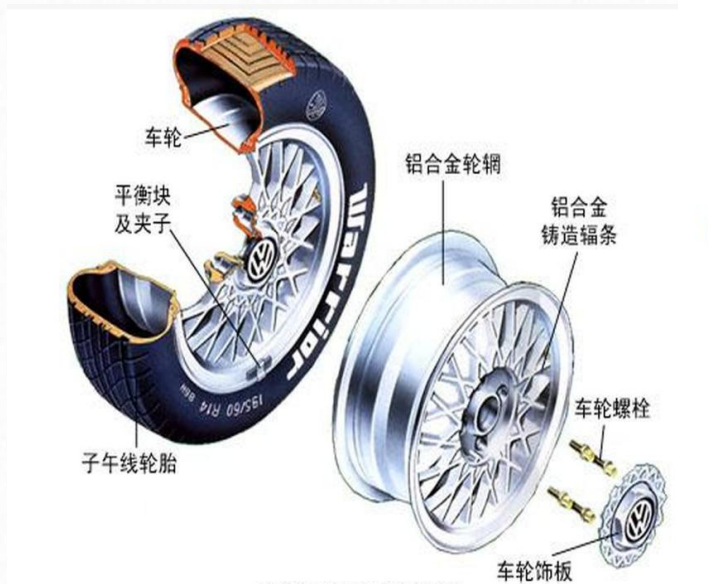
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1 Chains的设计理念和意义

01、Chains的设计理念 and 意义

链条



② 基于LCEL的Chains类型

01、Chains的类型

LCEL Chains

Chain Constructor	Function Calling	Other Tools
create_stuff_documents_chain		
create_openai_fn_runnable	✔	
create_structured_output_runnable	✔	
load_query_constructor_runnable		
create_sql_query_chain		SQL Database
create_history_aware_retriever		Retriever
create_retrieval_chain		Retriever

Legacy Chains

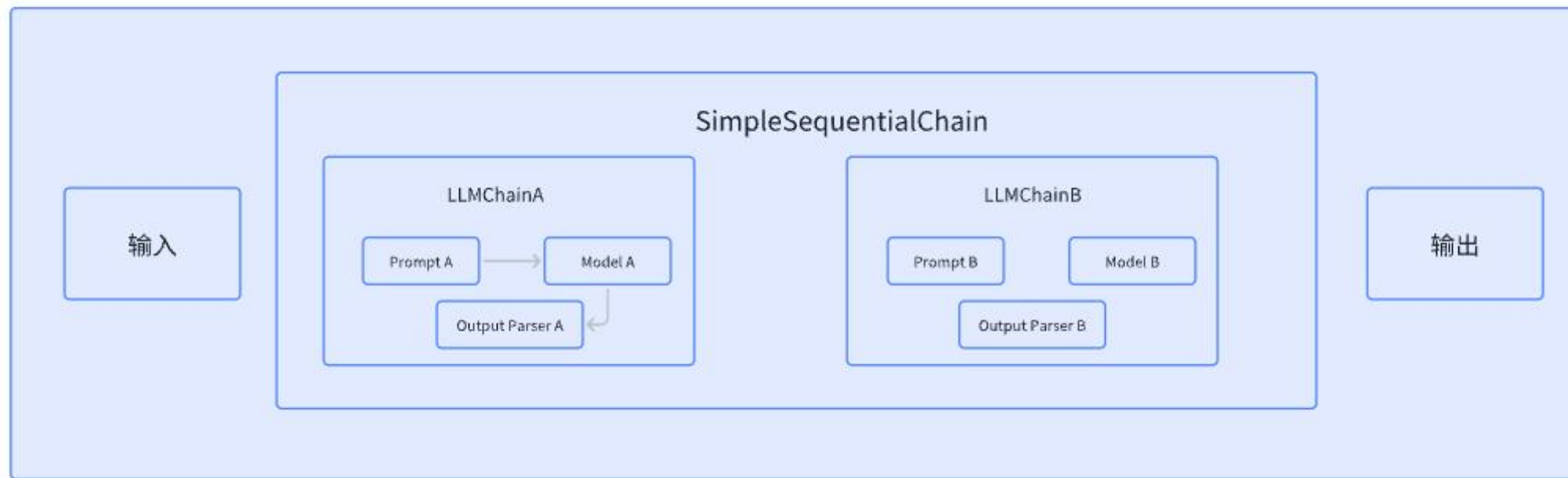
Chain			
APIChain	MapRerankDocumentsChain	NeptuneOpenCypherQAChain	
OpenAPIEndpointChain	ConstitutionalChain	GraphSparqlChain	load_qa_with_sources_chain
ConversationalRetrievalChain	LLMChain	LLMMath	RetrievalQA
StuffDocumentsChain	ElasticsearchDatabaseChain	LLMCheckerChain	MultiPromptChain
ReduceDocumentsChain	FlareChain	LLMSummarizationChecker	MultiRetrievalQAChain
MapReduceDocumentsChain	ArangoGraphQAChain	create_citation_fuzzy_match_chain	EmbeddingRouterChain
RefineDocumentsChain	GraphCypherQAChain	create_extraction_chain	LLMRouterChain
	FalkorDBGraphQAChain	create_extraction_chain_pydantic	load_summarize_chain
	HugeGraphQAChain	get_openapi_chain	LLMRequestsChain
	KuzuQAChain	create_qa_with_structure_chain	
	NebulaGraphQAChain	create_qa_with_sources_chain	
		QAGenerationChain	
		RetrievalQAWithSourcesChain	

02、基于LCEL的Chains类型

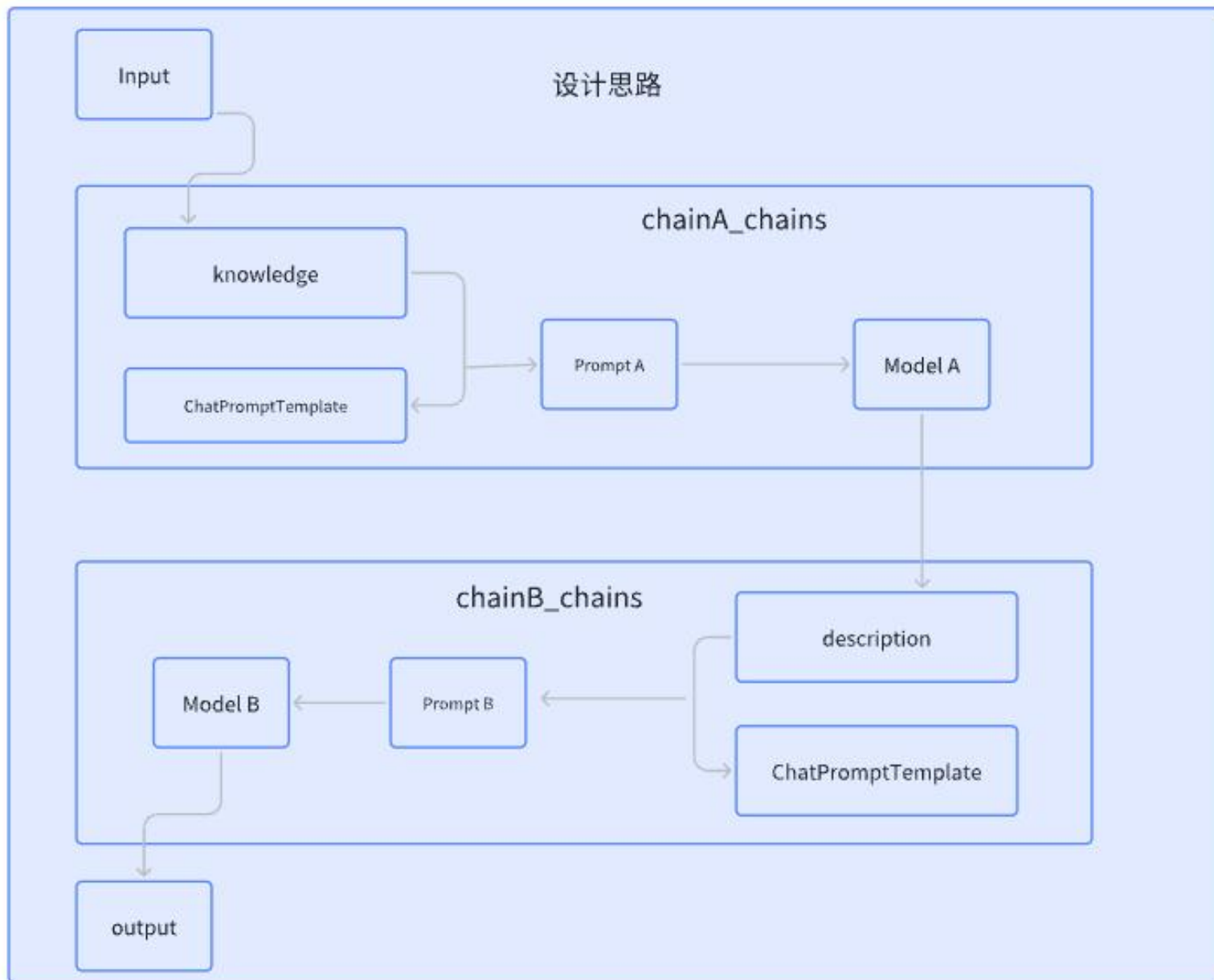
代码实战

③ 历史的 Chains 类型

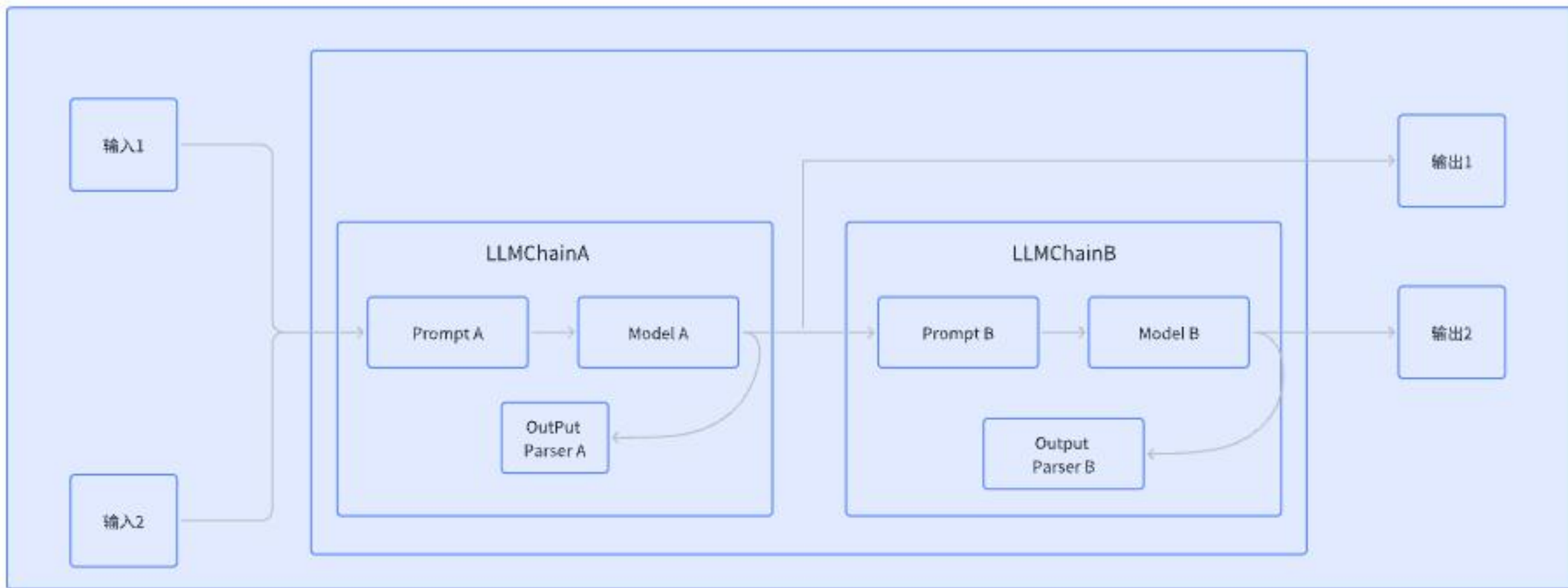
01、SimpleSequentialChain实战



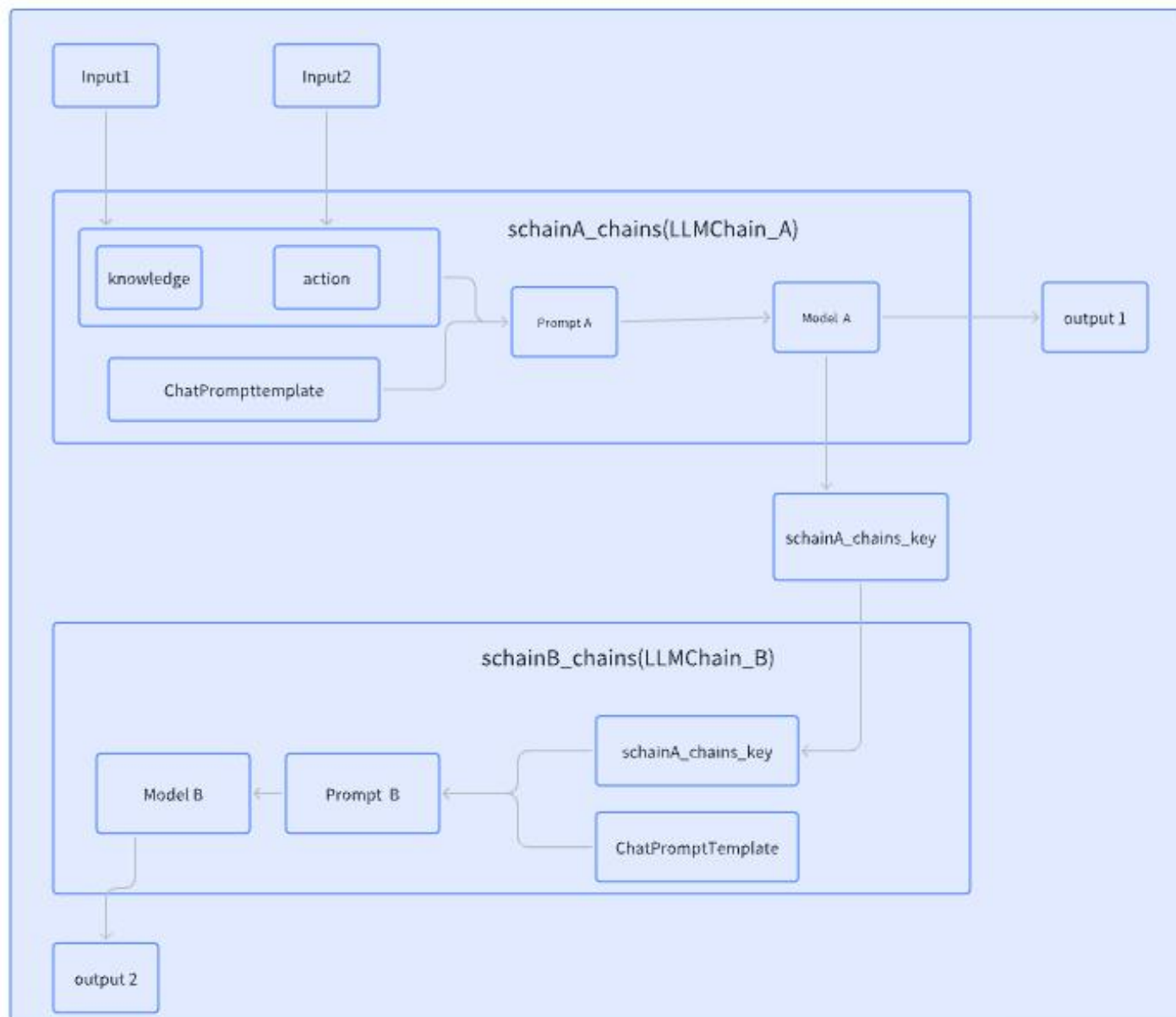
02、SequentialChain-实现思路



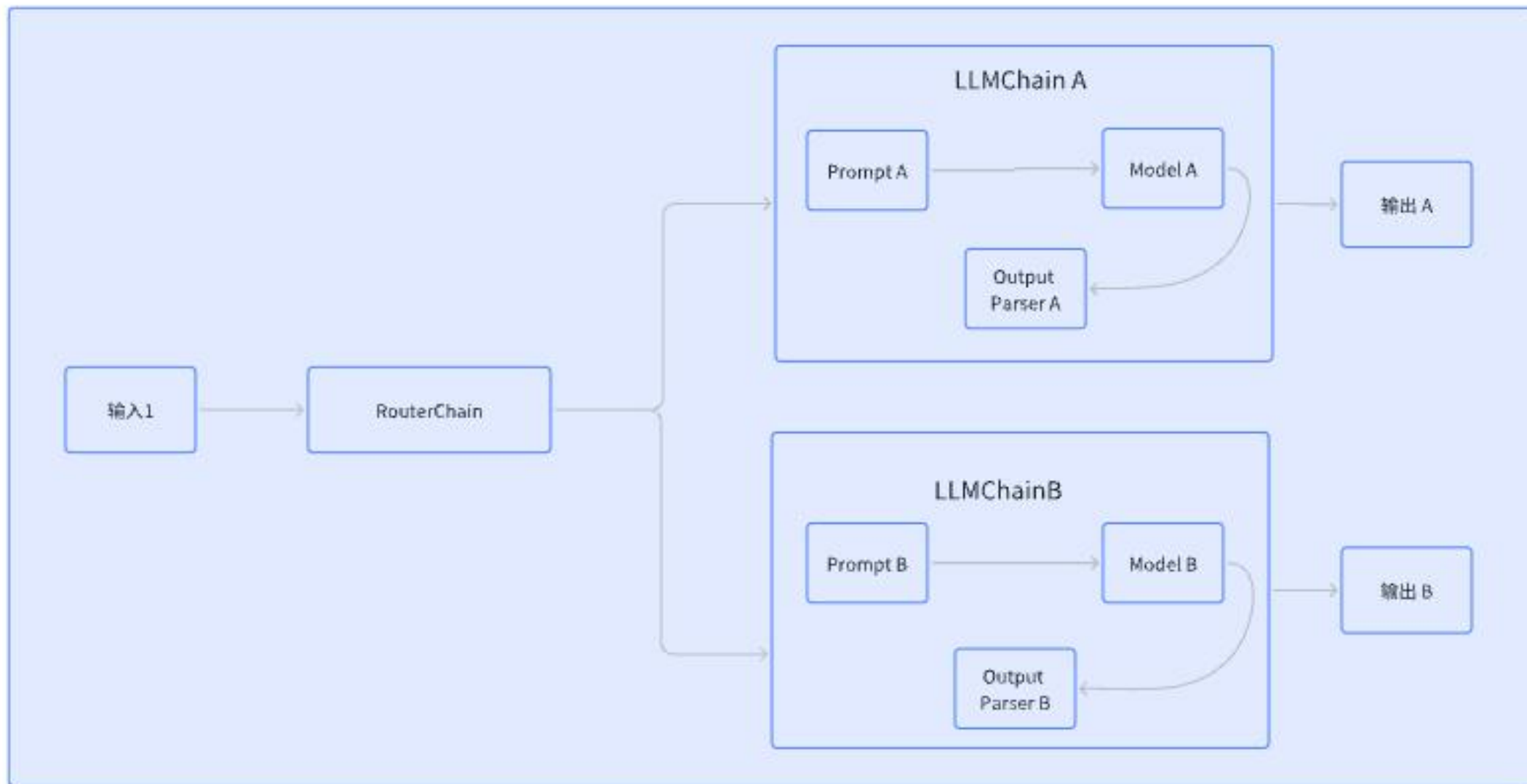
03、SequentialChain-落地方案



04、SequentialChain-落地方案

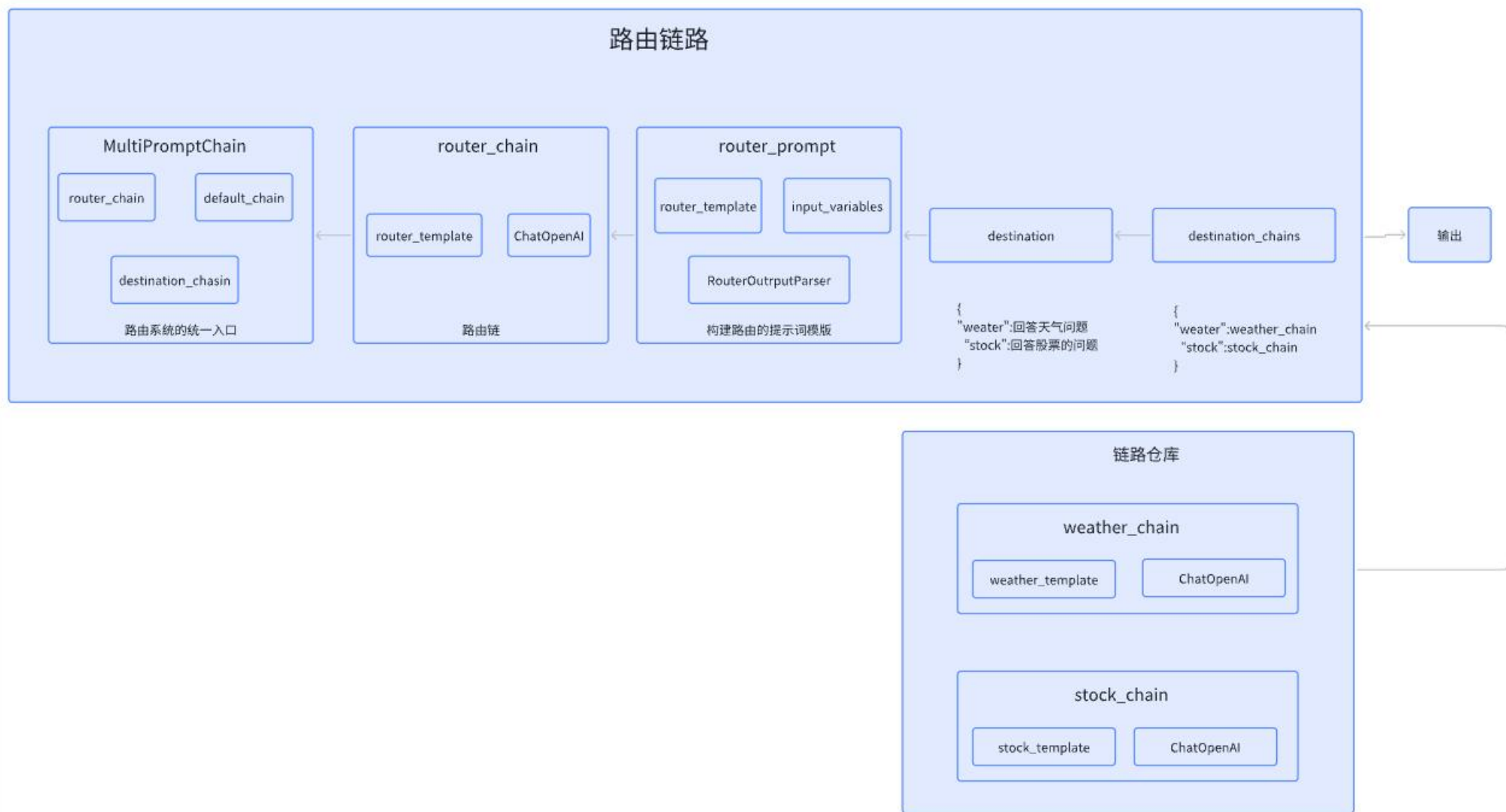


05、RouterChain设计方案



4 Chains API代码实战

01、RouterChain





THANK YOU