

SIMPLE NEWS AGGREGATOR



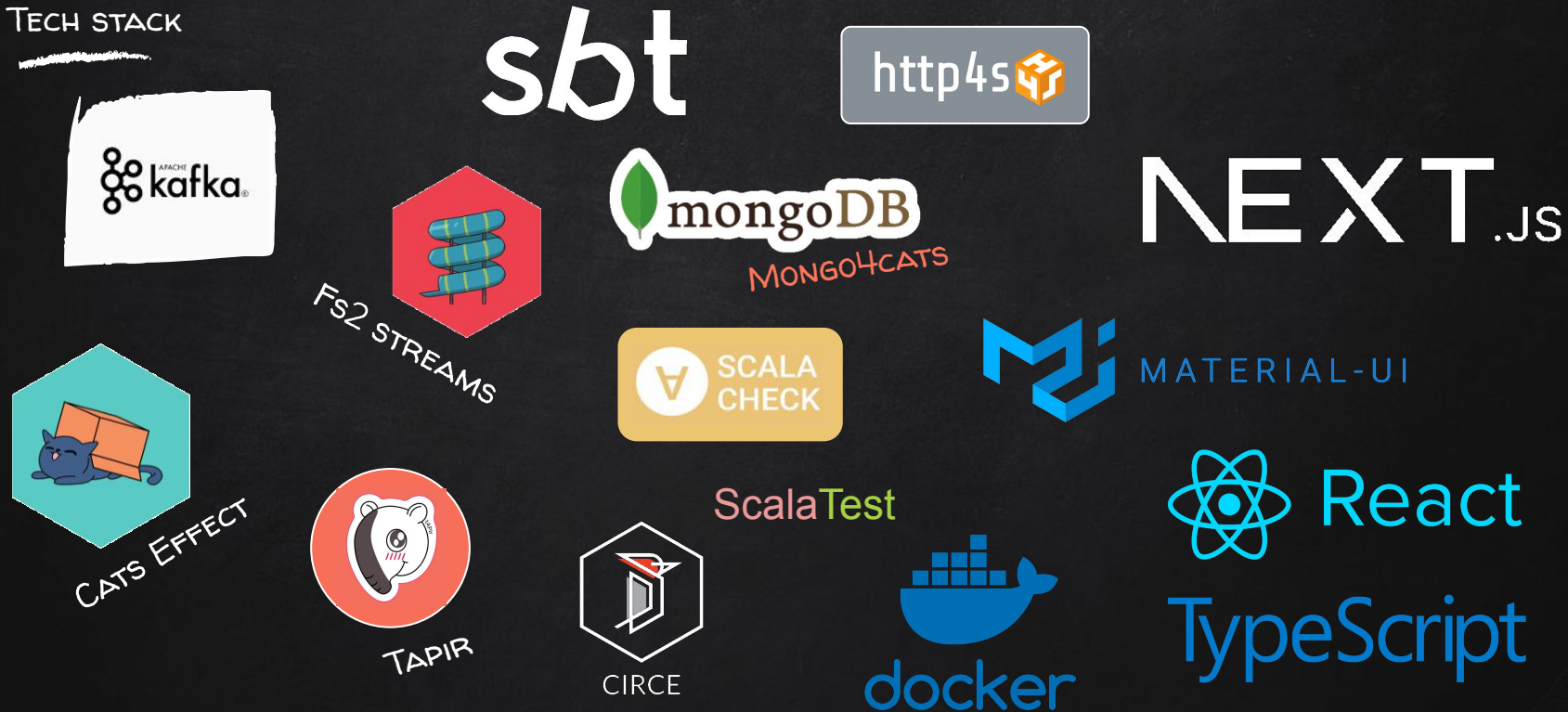
MENTOR:
SOURCE CODE:

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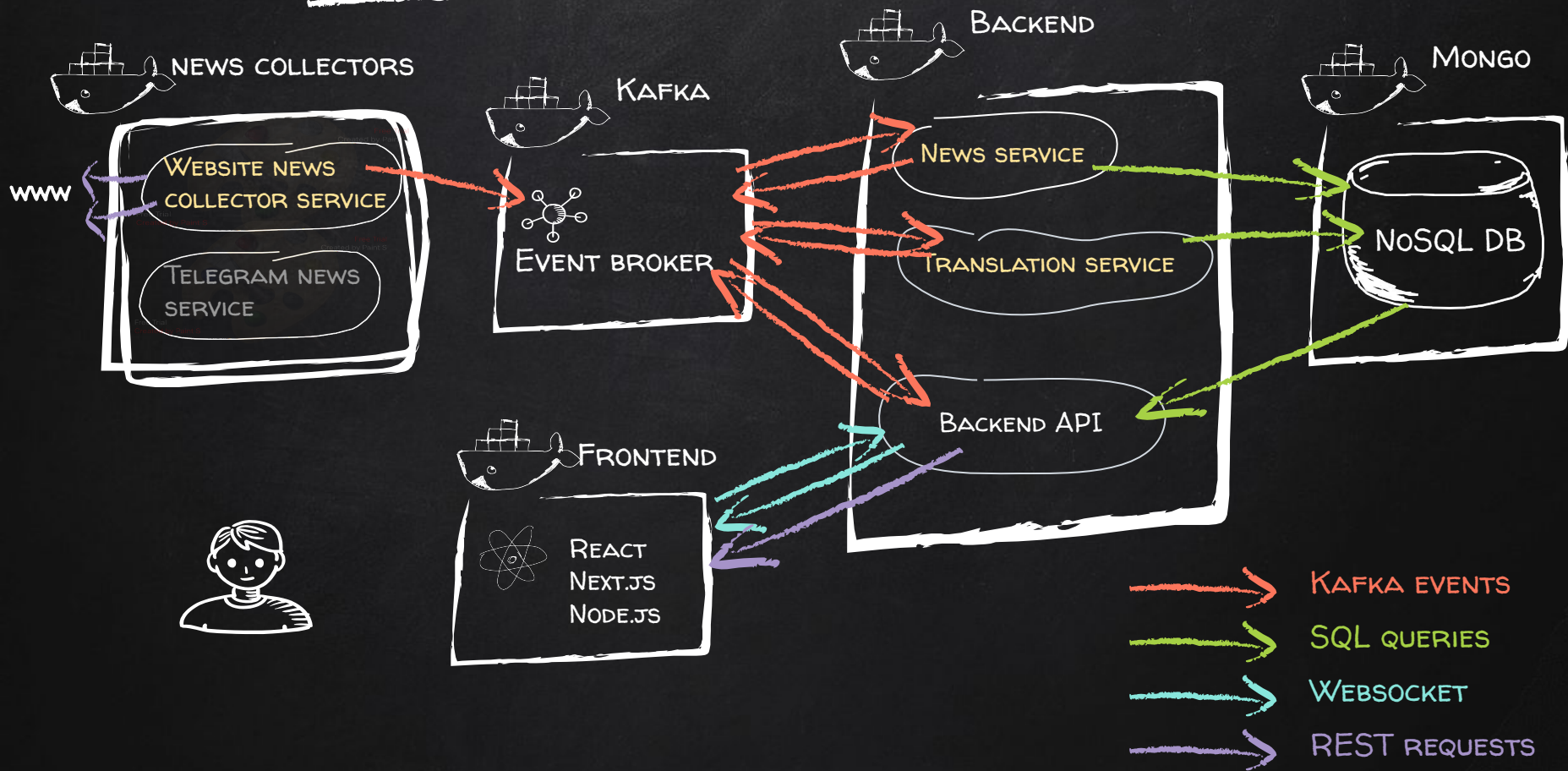
[HTTPS://GITHUB.COM/KABISHEV/NEWS-TRACKER](https://github.com/kabishev/news-tracker)

- THE GOAL OF THE PROJECT IS TO CREATE A DISTRIBUTED EVENT-DRIVEN MICROSERVICE ARCHITECTURE USING SCALA'S FUNCTIONAL PROGRAMMING APPROACH.

TECH STACK

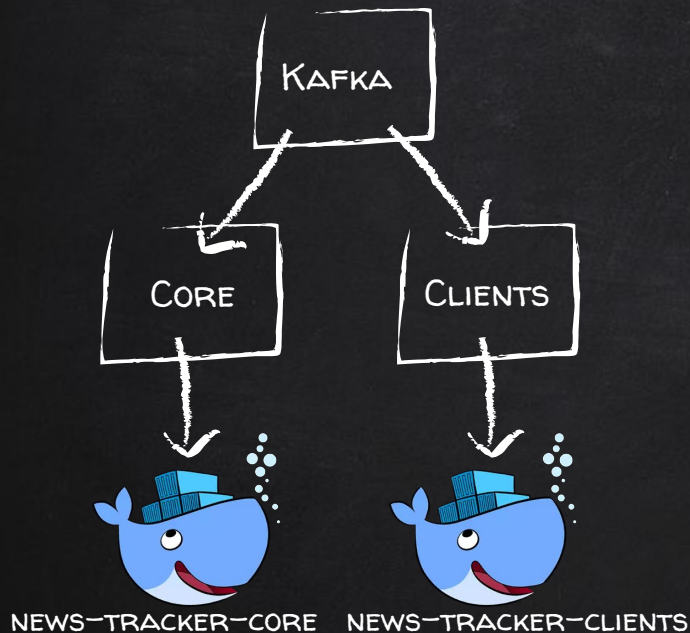


THE HIGH-LEVEL OVERVIEW



THE PROJECT STRUCTURE

MULTI-PROJECT BUILD



PACKAGE BY FEATURE

NEWS-TRACKER

- > health
- > http
- ▼ translation
 - > db
 - > deepl
 - > domain
 - errors.scala
 - TextProcessor.scala
 - TranslationController.scala
 - Translations.scala
 - TranslationService.scala
 - TranslationServiceConfig.scala
- > ws
 - Application.scala
 - ApplicationError.scala
 - ApplicationResources.scala
 - client.http
 - config.scala
- > test

CODE IMPLEMENTATION: BACKEND MAIN

```

  translation
  > db
  > deepl
  > domain
  errors.scala
  TextProcessor.scala
  TranslationController.scala
  Translations.scala M
  TranslationService.scala
  TranslationServiceConfig.s...
  ws
  Ws.scala
  WsController.scala
  WsEvent.scala
  Application.scala
  ApplicationError.scala
  ApplicationResources.scala
  client.http M
  config.scala

14 object Application extends IOApp.Simple {
15   implicit val logger = Slf4jLogger.getLogger[IO]
16   override def run: IO[Unit] = for {
17     config <- ApplicationConfig.load[IO]
18     _ <- logger.info(Console.GREEN + config + Console.RESET)
19     _ <- ApplicationResources.make[IO](config).use { resources =>
20       for {
21         health <- Health.make[IO]
22         ws <- Ws.make[IO](resources)
23         articles <- Articles.make[IO](resources)
24         translations <- Translations.make[IO](config.deepl, resources)
25         http <- Http.make[IO](health, ws, articles, translations)
26         server = HttpServer[IO].ember(config.httpServer, http).use(_ => IO.never)
27         _ <- Stream
28           .eval(server)
29           .concurrently(articles.stream)
30           .concurrently(translations.stream)
31           .compile
32           .drain
33       } yield ()
34     }
35   } yield ()
36 }
```


CODE IMPLEMENTATION: TRANSLATIONS FEATURE

- translation
 - db
 - Localization.scala
 - TranslationEntity.scala
 - TranslationRepository.scala
 - deepl
 - domain
 - CreateTranslation.scala
 - domain.scala
 - Localization.scala
 - Translation.scala
 - errors.scala
 - TextProcessor.scala
 - TranslationController.scala
 - Translations.scala
 - TranslationService.scala
 - TranslationServiceConfig.s...
- ws
 - Application.scala
 - ApplicationError.scala

```
13 final class Translations[F[_]] private (  
14     val controller: Controller[F],  
15     val stream: fs2.Stream[F, Unit]  
16 )  
17  
18 You, 4 days ago | 1 author (You)  
19 object Translations {  
20     def make[F[_]: Async: Logger](config: DeeplConfig, resources: ApplicationResources[F]): F[Tr  
21     for {  
22         repo <- TranslationRepository.make[F](resources.mongo)  
23         deepl <- DeeplClient.make[F](config, resources)  
24         svc <- TranslationService.make[F](  
25             repo,  
26             deepl,  
27             TextProcessor.makeJsoupProcessor[F],  
28             resources.createdArticleEventConsumer,  
29             resources.translatedEventProducer,  
30             resources.translateCommandProducer,  
31             resources.translateCommandConsumer,  
32             resources.serviceEventProducer  
33         )  
34         ctrl <- TranslationController.make[F](svc)  
35     } yield new Translations[F](ctrl, svc.stream)  
36 }
```

CODE IMPLEMENTATION: TRANSLATE FUNCTION

```

93 private def translate(cmd: TranslateCommand)(translation: Translation): F[Unit] = {
94   val translationId = TranslationId(cmd.id)
95   val targetLanguage = LocalizationLanguage(cmd.language)
96   val startTime = System.currentTimeMillis()
97   translation.localizations.find(_.language == targetLanguage) match {
98     case None =>
99       val original = translation.localizations.head
100       val content = original.content.value
101
102       for {
103         preprocessed <- textProcessor.preprocessing(content)
104         translated <- deepLClient.translate(preprocessed, original.language.value, targetLanguage.value)
105         _ <- Logger[F].info(s"translation received: id = ${translationId.value}, language = ${targetLanguage.value}")
106         postprocessed <- textProcessor.postprocessing(content, translated)
107         newTranslation = Translation(
108           translationId,
109           translation.localizations :+ Localization(targetLanguage, LocalizationContent(postprocessed))
110         )
111         updatedTranslation <- repository.update(newTranslation)
112         _ <- Logger[F].info(s"translation updated: id = ${translationId.value}, language = ${targetLanguage.value}")
113         _ <- translatedEventProducer.produceOne(TranslatedEvent(updatedTranslation.id.value, targetLanguage.value))
114         event = ServiceEvent.makeTaskCompletedEvent(
115           config.name,
116           s"Translation (${targetLanguage.value}) completed: duration = ${System.currentTimeMillis() - startTime} ms"
117         )
118         _ <- serviceEventProducer.produceOne(event)
119       } yield ()
120     case Some(_) => ().pure[F]
  }
```

CI

[Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

[New workflow](#)

All workflows

Showing runs from all workflows

Filter workflow runs

52 workflow runs

Event Status Branch Actor

✓

Merge branch 'master' of github.com:kabishev/news-tracker

Scala CI #53: Commit 3641b38 pushed by kabishev

master

2 hours ago
2m 25s

...

✓

Update README.md

Scala CI #52: Commit 69f90b2 pushed by kabishev

master

yesterday
2m 16s

...

✓

Update newstracker.png

Scala CI #51: Commit b4c76ae pushed by kabishev

master

2 days ago
2m 33s

...

✓

Merge pull request #18 from kabishev/optimize-translation-service

Scala CI #50: Commit 640900e pushed by kabishev

master

4 days ago
2m 11s

...

✓

Optimize translation service

Scala CI #49: Pull request #18 synchronize by kabishev

optimize-translation-serv...

4 days ago
2m 39s

...

✗

Optimize translation service

Scala CI #48: Pull request #18 opened by kabishev

optimize-translation-serv...

4 days ago
1m 51s

...



THANKS!

Any questions?

You can find me at
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