TRIP PLANNING APPLICATION

Team #3 :

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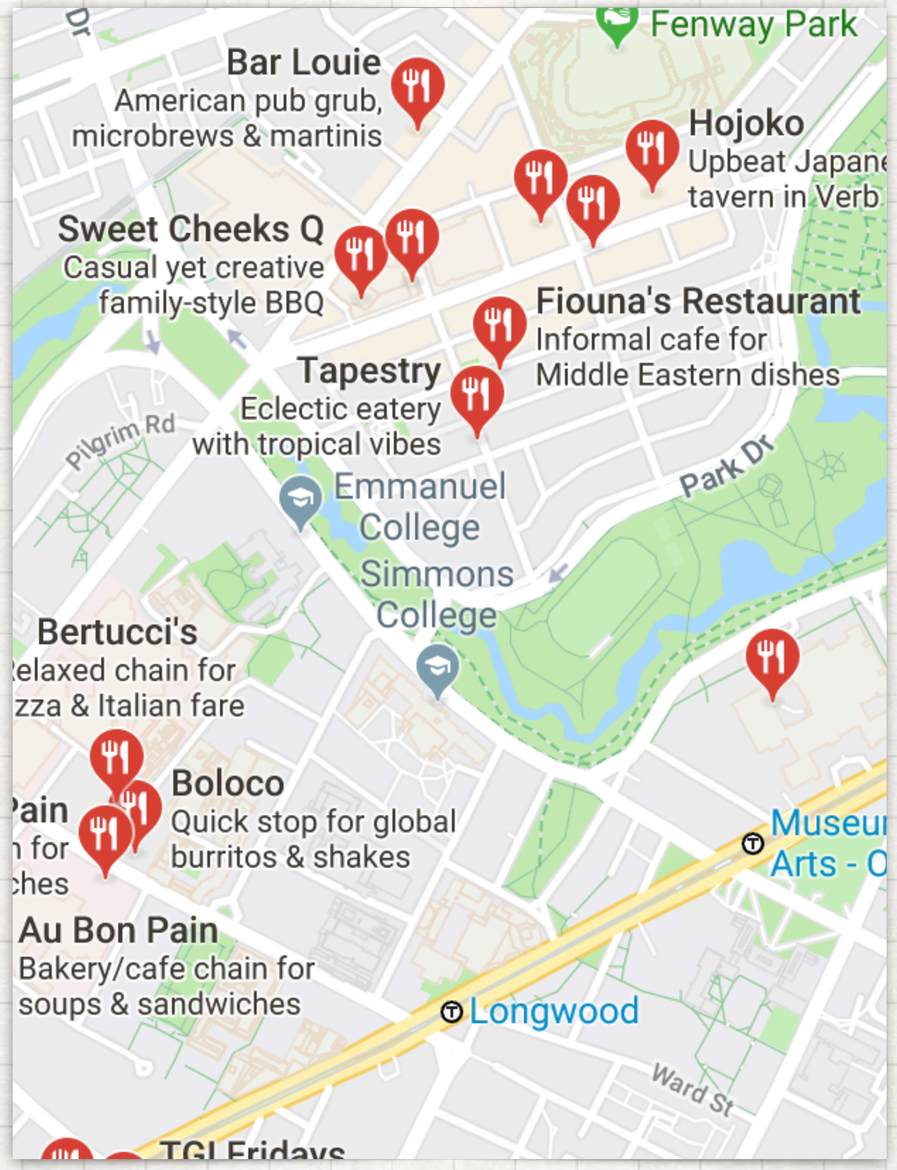
GitHub: https://github.com/chesszhou/CSYE7200-Project-Team-3

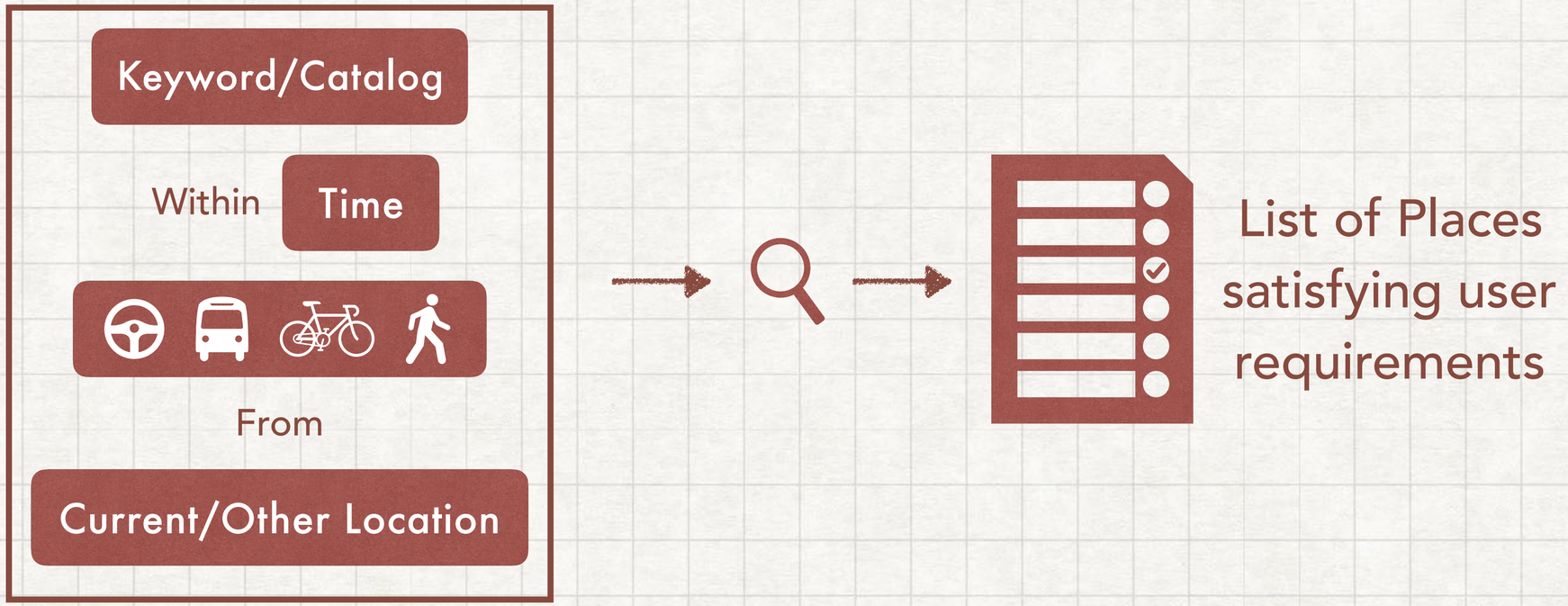
INTRODUCTION

- Trip planning advisor
- Web app based on Play framework with Scala
- Data resolve & calculations
- Database, email, etc



USE CASES/USER STORIES

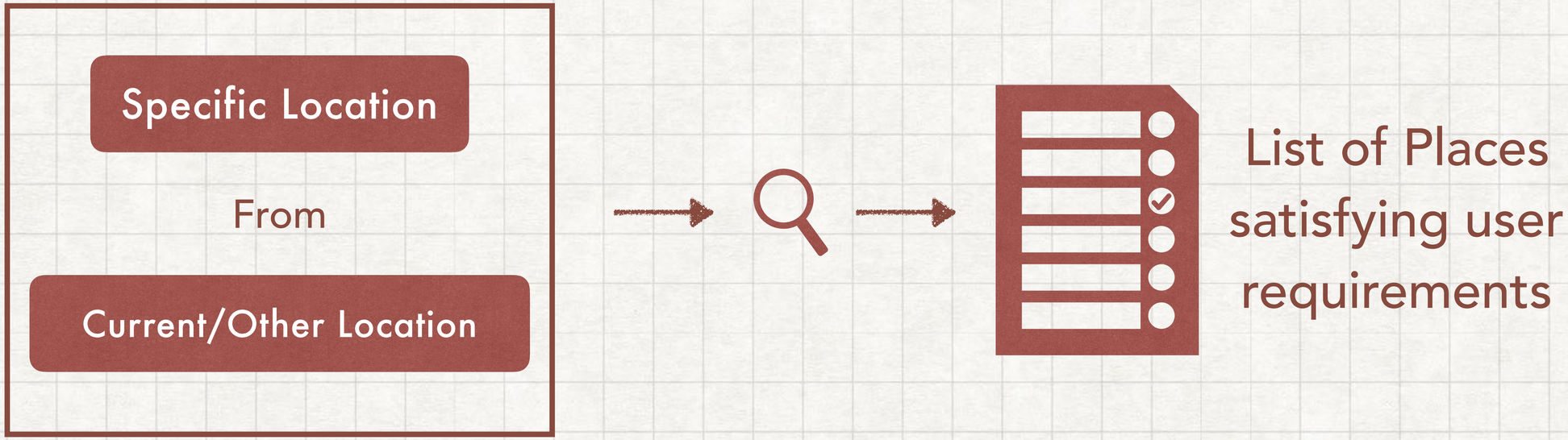
USE CASE 1



As a user, I want to input a keyword that I want to go with a time slot and transport, **so that** I can know what are the specific destinations I can get by various modes of transport within various time periods

USE CASES/USER STORIES

USE CASE 2



As a user, I want to input a specific destination/address **so that** I can know how long will it take from a given place to a destination via various modes of transport

Demo

ACCEPTANCE CRITERIA

- 90% of the elements will be executed and finished within 10 seconds 
- The return results based on user request and application’s filters will present 5 best results (if exists) 

PLAY FRAMEWORK

PLAY JSON LIBRARY

```
import play.api.libs.json._

val result = scala.io.Source.fromURL(url).mkString;

//get length of list
val jsonResult: JsValue = Json.parse(result)
val resultArray  = (jsonResult \"results").as[List[JsValue]]
var resultNum = resultArray.length;


//get all place id
val places = new Array[Place](resultNum)
for(i <- 0 to (resultNum-1)){


  val id = (jsonResult \"results" \ i \ "place_id").get.toString();
  val category = (jsonResult \"results" \ i \ "types" \ 0).get.toString();
  val name = (jsonResult \"results" \ i \ “name").get.toString();
  val address = (jsonResult \"results" \ i \ "formatted_address").get.toString();
  val location_org = (jsonResult \"results" \ i \ "geometry" \ "location").get.toString();


…
}
```

PLAY FRAMEWORK

HANDLING FORM

◆ Input Helper

```
@import helper._

…

@inputRadioGroup(
    searchForm_case1("currentLocation1"),
    options = Seq("currentLocation"->"Current Location","otherLocation"->"Other. Please specify:"),
    '_label -> "From",
    '_showConstraints -> false
)
```

◆ Form Validation

```
  val searchForm_case1: Form[SearchForm_case1] = Form(
    mapping(
      "keyword" -> nonEmptyText,
      "travelModel" -> nonEmptyText,
      "time" -> number(min = 0),
      "currentLocation1" -> nonEmptyText,
      "otherLocation1" -> text
    )(SearchForm_case1.apply)(SearchForm_case1.unapply) verifying("Other location cannot be empty",
      SearchForm_case1=>{
        checkOtherLocation(SearchForm_case1.currentLocation,SearchForm_case1.otherLocation2)
      })
  )
```

PLAY FRAMEWORK

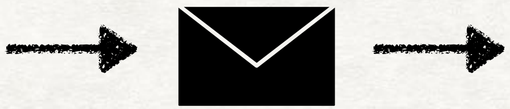
PLAY-MAILER

```
smtp.mock =false


play.mailer {


  host = "smtp.gmail.com"
  port = 587
  ssl = no
  tls = yes
  user = “*****@gmail.com”
  password = “******”
  debug = yes
  mail.smtp.auth = true


}
```



Mister FROM
发给我
上午12:04 查看详细信息

Here is your travel destnation Detial!

Name: Five Guys

Address: 180 Main St, Saugus, MA 01906, USA

Phone-Number: +1 781-231-0042

Website: http://fiveguys.com/

Reviews
The crew that works here is top notch. It's funny, you get better service from a hamburger joint then you do from 95% of other businesses. Hats off to them.

Great place, not really competitive with pricing.. nice staff

Horribly over-cooked dry Burgers to the point that they were crunchy all the way through. I don't understand what the fascination with Five Guys is. Just a horrible Burger.

Good product but this location executes poorly. Fries are often undercooked, which really ruins them. I understand the whole

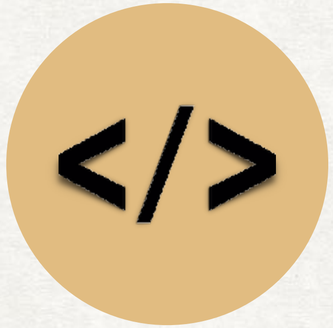
DATABASE


```
/**
  * Insert a new user.
  * @param user The user values.
  */
def insert(user: User): Future[Option[Long]] = Future {
  db.withConnection { implicit connection =>
    SQL("""
      insert into user (name, password,email) values (
        {name}, {password}, {email}
      )
    """).bind(user).executeInsert()
  }
}(databaseExecutionContext)
```

GOOGLE MAP API

Back-end Web Service

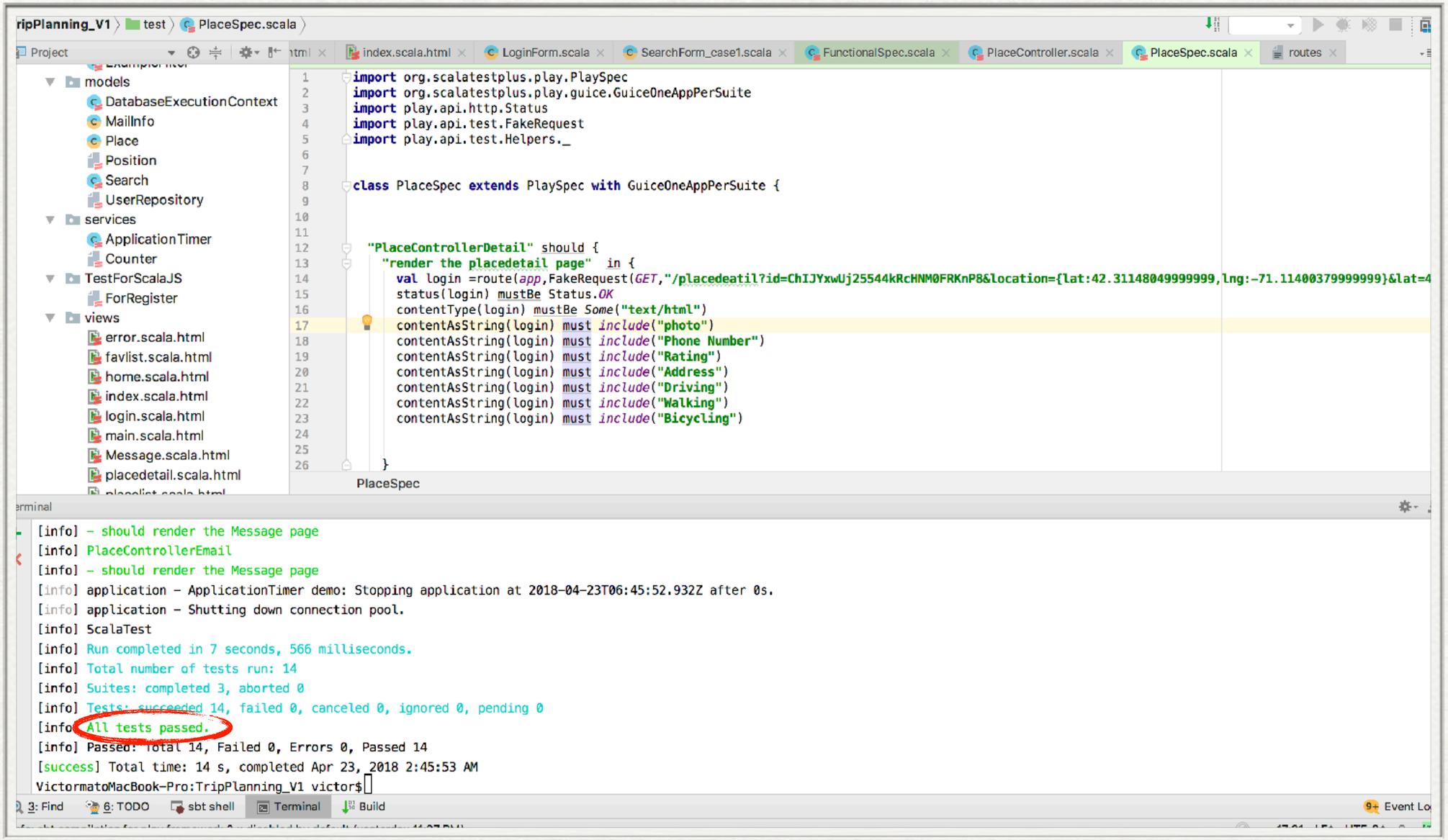
- IP-API
- Geocoding API
- Distance Matrix API
- Places API Web Service



Front-end Web

- Google Maps JavaScript API
- Google Places API JavaScript Library

UNIT TEST


ripPlanning_V1 〉 test 〉 PlaceSpec.scala 〉
Project
index.scala.html
LoginForm.scala
SearchForm_case1.scala
FunctionalSpec.scala
PlaceController.scala
PlaceSpec.scala
routes
models
DatabaseExecutionContext
MailInfo
Place
Position
Search
UserRepository
services
ApplicationTimer
Counter
TestForScalaJS
ForRegister
views
error.scala.html
favlist.scala.html
home.scala.html
index.scala.html
login.scala.html
main.scala.html
Message.scala.html
placedetail.scala.html
import org.scalatestplus.play.PlaySpec
import org.scalatestplus.play.guice.GuiceOneAppPerSuite
import play.api.http.Status
import play.api.test.FakeRequest
import play.api.test.Helpers._
class PlaceSpec extends PlaySpec with GuiceOneAppPerSuite {
"PlaceControllerDetail" should {
"render the placedetail page" in {
val login =route(app,FakeRequest(GET,"/placedeatil?id=ChIJYxwUj25544kRcHNM0FRKnP8&location={lat:42.31148049999999,lng:-71.11400379999999}&lat=4
status(login) mustBe Status.OK
contentType(login) mustBe Some("text/html")
contentAsString(login) must include("photo")
contentAsString(login) must include("Phone Number")
contentAsString(login) must include("Rating")
contentAsString(login) must include("Address")
contentAsString(login) must include("Driving")
contentAsString(login) must include("Walking")
contentAsString(login) must include("Bicycling")
}
PlaceSpec
[info] - should render the Message page
[info] PlaceControllerEmail
[info] - should render the Message page
[info] application - ApplicationTimer demo: Stopping application at 2018-04-23T06:45:52.932Z after 0s.
[info] application - Shutting down connection pool.
[info] ScalaTest
[info] Run completed in 7 seconds, 566 milliseconds.
[info] Total number of tests run: 14
[info] Suites: completed 3, aborted 0
[info] Tests: succeeded 14, failed 0, canceled 0, ignored 0, pending 0
[info] All tests passed.
[info] Passed: Total 14, Failed 0, Errors 0, Passed 14
[success] Total time: 14 s, completed Apr 23, 2018 2:45:53 AM
VictormatoMacBook-Pro:TripPlanning_V1 victor$
3: Find
6: TODO
sbt shell
Terminal
Build
Event Lo

Thank you