**Hazelcache app RUNBOOK**

Hazelcache is a spring boot Java application implemented with Hazelcast. The Application was created as a Maven project using IntelliJ IDE. However, the user can use any other IDE, but must make sure to import the project as Spring Boot maven project. The source code is contained on the folder named hazelcahe. The structure of the folder is:

hazelcache:

* .idea
* src/main
  + Java/com/dickson
    - Config
    - Controller
    - Execution
    - Application.java(main class)
  + Resources
  + Main.html
* hazelcache.iml
* Pom.xml

**Section 1. Downloading and configuring Hazelcast**

Step 1. Copy and paste the following link on your browser in your browser to download Hazelcast.

Step 2. Extract it from the Zip folder then open Hazelcast folder

Step 3. Open the bin folder then open the bin folder

Step 4. Open the hazecast.xml file

Step 5. In the xml group tag, change the name and the password to “hazelcast-dev” and save the change.

Step 6. Open your Terminal or Command Shell, and navigate to the Hazelcast/bin directory

Step 7. Run the following command to start the Hazelcast instance:

./start.sh

Step 8. The Hazelcast instance should be running successfully

Step8. To stop the Hazelcast instance, run the following command:

./stop.sh

**Section 2. Import the project folder using IntelliJ**

Step 1. Open IntelliJ IDE

Step 2. Click “import Project” and locate and import the Hazelcache folder

Step 3. Select “Import project from External model” then select “Maven” and click Next until you get the “Finish” Button

Step 4 Click “Finish” to complete the import and the Maven project configuration.

Step 5. Once completed, open the IntelliJ Terminal and run “mvn -version” to verify if Maven is installed on your local machine.

If success, the command will display the maven version Information. If not please download Maven using this link: <https://maven.apache.org/download.cgi> (choose the apache-maven-3.5.3-bin.zip) and follow the instruction provided on the website.

Step 6. After downloading Maven successfully on your local machine run the following command:

mvn spring-boot: run

Step 7. The Hazelcache spring application run successfully and connected to the Hazelcast client server. The port connection is: 8090

**Section 3**. **Download and install Postman to simulate the API with the CRUD operations with a faster response time:** <https://www.getpostman.com/>

Step 1. For the HTTP POST, enter the following information:

* For URL enter:” localhost:8090/updateTravel”
* For the Headers:
  + Key: Content-Type
  + Value: application/json
* Body:
  + select “raw”

For Body the following json file structure:

{

"id":500,

"flightNumber":500,

"airline":"AIRUSA",

"price":1200.50,

"originationCity":"Atlanta,GA",

"destinationCity":"New York, NY"

}

Step 2 Click “Send”

Step 3. You Should get the response with time taken.

Step 4. For the HTTP GET, please enter the URL; “localhost:8090/updateTravel?id=500”

Step 5. Click “Send”

Step 6. You Should get the response with the time taken to retrieve the data

Note: You can play with the HTTP POST, GET, DELETE, UPDATE methods to simulate the API and test the response time taken to process the data