

Choicemaker Guide

Implemented and Documented By	Sachith Senarathne
Version	v1.0.0
Date	25.10.2023

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Introduction

Choicemaker is here to simplify the process and make dining decisions an effortless and enjoyable experience. Choicemaker is an application that combines React-based frontend and a Spring Boot backend, equipped with both RESTful APIs and WebSocket communication. With Choicemaker, it will facilitate a more efficient and collaborative approach to choosing the perfect restaurant for your day.

Key Features:

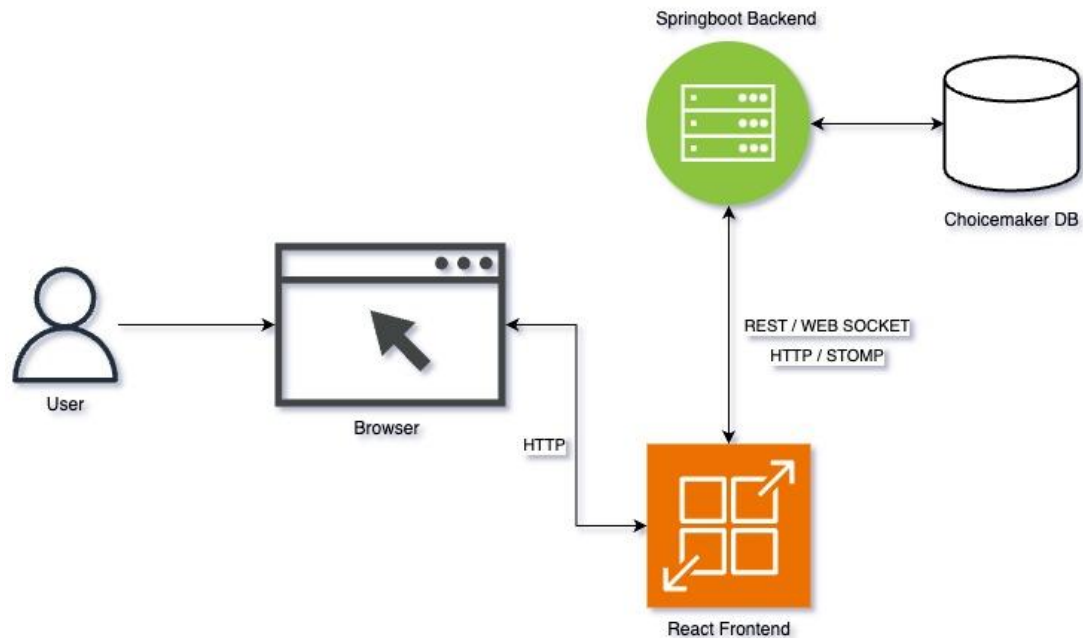
1. **Session Creation:** Any user can initiate a dining session, taking the lead in selecting where to eat. The creator has the privilege to add other users to the session, establishing a central hub for the decision-making process.

2. **User Collaboration:** Choicemaker has the ability to bring people together. Users can join an existing session (undergoing the fact that the user should be invited by the session creator), contributing their opinions and preferences to the decision-making process.
3. **Real-time Updates:** Choicemaker employs WebSockets to keep all users in the session instantly informed. When a participant submits their restaurant choice, the rest of the group receives immediate notifications, ensuring everyone is on the same page throughout the process.
4. **Session Conclusion:** The session creator holds the key to finalizing the choice. When they decide the time is right, the creator can end the session, and this action will trigger the final selection process.
5. **Randomized Selection:** To decision-making, Choicemaker randomly selects the restaurant from the submitted options. Selected restaurant will be notified by all the users in the session.

Design

Components

Component	Usage	Technology
Backend	Backend API and Websocket server	Springboot, AOP, OAPI
Frontend	Froned app for UI components	React, SockJs
Database	Storing data related to sessions	MySql



Dev Environment and Local Setup

PreRequisite

- Java 17
- Maven 3
- MySql
- Node and npm
- Git

Backend API

Note: Please configure the db connection properly by adding below properties as per the running system db before starting the application

```
spring.datasource.url=jdbc:mysql://localhost:3306/choicemaker
spring.datasource.username=
spring.datasource.password=
```

Step 01:

Clone the project

```
git clone https://github.com/sachithsen/choicemaker
```

Step 02:

Go to the directory

```
cd choicemaker
```

Step 03:

Install maven dependencies

```
mvn clean install
```

Step 04:

Run the project

```
mvn spring-boot:run
```

You can verify the application status using actuator health endpoints.

<http://localhost:8080/actuator/health> which will give {"status":"UP"} as a result.

Froned App

Frontend app is inside the same repo and version controlled as a mono repo

Step 01:

Go to the directory

```
cd choicemaker/frontend
```

Step 02:

Install node modules

```
npm install
```

Step 03:

Run the project

```
npm start
```

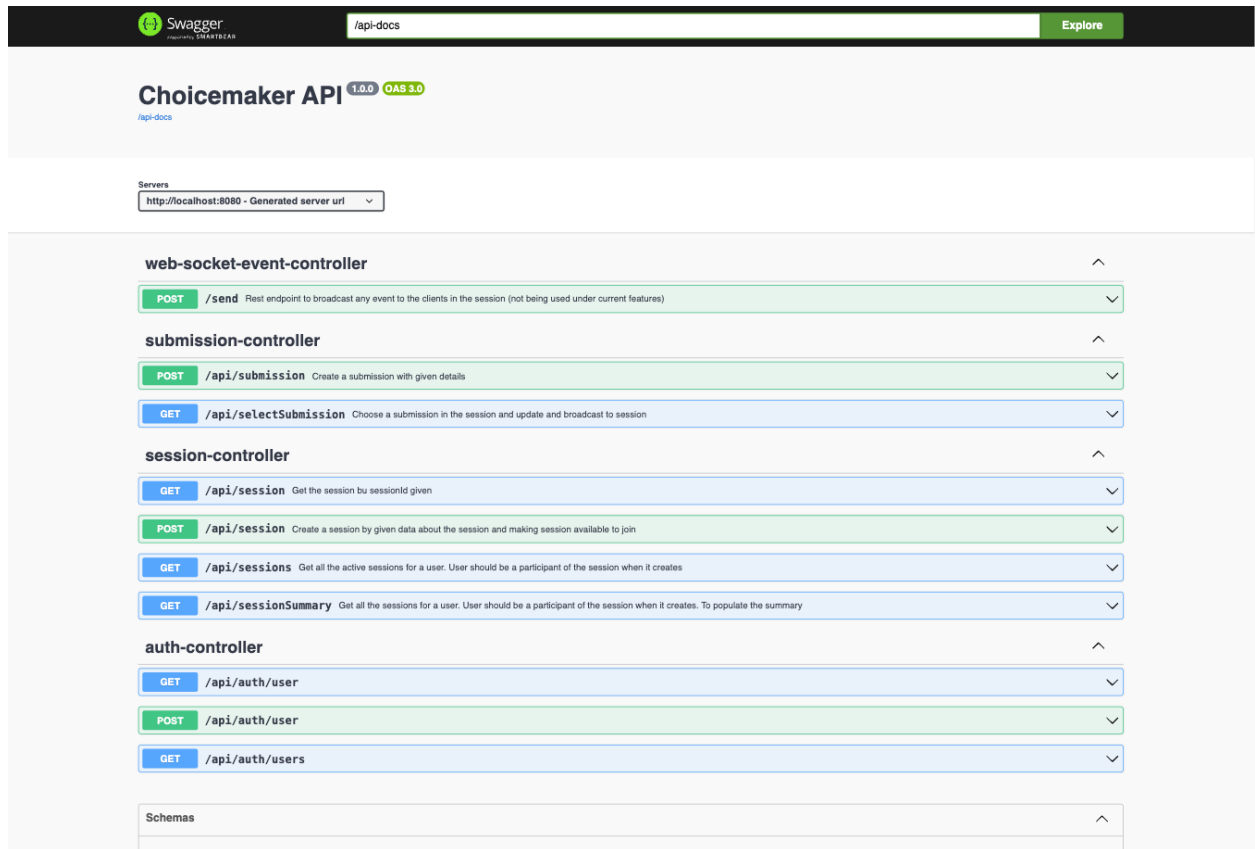
You will be able to access the frontend application using the URL below.

<http://localhost:3000>

API Documentation

You will be able access Open API documentation once the backend application is up and running and try the endpoints as well.

<http://localhost:8080/swagger-ui/index.html>



AOP Logging for debugging

Log levels have been set to debug the application and logging has been introduced using Spring AOP to improve the traceability.

```
logging.level.org.springframework.web=INFO
logging.level.org.springframework.security=INFO
logging.level.org.hibernate=ERROR
logging.level.org.sachith.choicemaker=DEBUG
```

Sample logs

```

2023-10-26T00:05:56.640+08:00 DEBUG 77436 --- [nio-8080-exec-9] o.s.choicemaker.aspect.LoggingAspect : Exit: org.sachith.choicemaker.service.SessionService.getAllActiveSessions() with result = []
2023-10-26T00:05:56.641+08:00 DEBUG 77436 --- [nio-8080-exec-9] o.s.choicemaker.aspect.LoggingAspect : Exit: org.sachith.choicemaker.controller.SessionController.getAllActiveSessionsByUser() with result = <2
00 OK OK, [], []>
2023-10-26T00:05:56.726+08:00 DEBUG 77436 --- [io-8080-exec-10] o.s.choicemaker.aspect.LoggingAspect : Enter: org.sachith.choicemaker.controller.SessionController.getAllActiveSessionsByUser() with argument[s
] = [sachiths]
2023-10-26T00:05:56.726+08:00 DEBUG 77436 --- [io-8080-exec-10] o.s.choicemaker.aspect.LoggingAspect : Enter: org.sachith.choicemaker.service.SessionService.getAllActiveSessions() with argument[s] = [sachith
s]
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00 OK OK, [], []>
2023-10-26T00:05:57.195+08:00 DEBUG 77436 --- [nio-8080-exec-9] o.s.choicemaker.aspect.LoggingAspect : Exit: org.sachith.choicemaker.controller.AuthController.getAllUsers() with result = [User{id=1, firstNam
e='Sachith', lastName='Senarathne', username='sachiths', password='123'}, User{id=2, firstName='John', lastName='Cater', username='johnc', password='123'}, User{id=3, firstName='Anne', lastName='Brown', username
='anneb', password='123'}, User{id=4, firstName='Sara', lastName='Kaush', username='sarak', password='123'}, User{id=5, firstName='Mat', lastName='Clark', username='matc', password='123'}]
2023-10-26T00:05:57.191+08:00 DEBUG 77436 --- [nio-8080-exec-1] o.s.choicemaker.aspect.LoggingAspect : Enter: org.sachith.choicemaker.controller.AuthController.getAllUsers() with argument[s] = []
2023-10-26T00:05:57.193+08:00 DEBUG 77436 --- [nio-8080-exec-1] o.s.choicemaker.aspect.LoggingAspect : Exit: org.sachith.choicemaker.controller.AuthController.getAllUsers() with result = [User{id=1, firstNam
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='anneb', password='123'}, User{id=4, firstName='Sara', lastName='Kaush', username='sarak', password='123'}, User{id=5, firstName='Mat', lastName='Clark', username='matc', password='123'}]
2023-10-26T00:05:57.228+08:00 DEBUG 77436 --- [nio-8080-exec-7] o.s.choicemaker.aspect.LoggingAspect : Exit: org.sachith.choicemaker.service.SessionService.getAllSessionSummary() with result = [SummaryRecord
{id=1, participants=[sachiths, anneb, matc], date='2023-10-25', name='sachiths-007eeaf9', admin='sachiths', restaurants=[Restaurant Zen, Art di Daniele Sperindio, Daniele Sperindio, Firangi Superstar], winners='F
irangi Superstar'}, SummaryRecord{id=6, participants=[sachiths, anneb, matc], date='2023-10-25', name='sachiths-6527c68a', admin='sachiths', restaurants=[The Best Restaurant, Coffee Bar, The Meal House, Pub Hous
e PLC], winners='The Meal House'}, SummaryRecord{id=7, participants=[sachiths, johnc, anneb, matc], date='2023-10-25', name='sachiths-efe77d59', admin='sachiths', restaurants=[XYZ Rest, Coffee Bar LK, Kopitiam -
Building X, Coffee Bean and Tea Leaves, Clarks Grill], winners='Kopitiam - Building X'}]
2023-10-26T00:05:57.232+08:00 DEBUG 77436 --- [nio-8080-exec-7] o.s.choicemaker.aspect.LoggingAspect : Exit: org.sachith.choicemaker.controller.SessionController.getAllSessionsByUser() with result = <200 OK
OK, [SummaryRecord{id=1, participants=[sachiths, anneb, matc], date='2023-10-25', name='sachiths-007eeaf9', admin='sachiths', restaurants=[Restaurant Zen, Art di Daniele Sperindio, Daniele Sperindio, Firangi Supe
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r LK, Kopitiam - Building X, Coffee Bean and Tea Leaves, Clarks Grill], winners='Kopitiam - Building X'}], []>
2023-10-26T00:05:57.236+08:00 DEBUG 77436 --- [nio-8080-exec-2] o.s.choicemaker.aspect.LoggingAspect : Enter: org.sachith.choicemaker.controller.SessionController.getAllSessionsByUser() with argument[s] = [s
achiths]
2023-10-26T00:05:57.236+08:00 DEBUG 77436 --- [nio-8080-exec-2] o.s.choicemaker.aspect.LoggingAspect : Enter: org.sachith.choicemaker.service.SessionService.getAllSessionSummary() with argument[s] = [sachith
s]
2023-10-26T00:05:57.243+08:00 DEBUG 77436 --- [nio-8080-exec-2] o.s.choicemaker.aspect.LoggingAspect : Exit: org.sachith.choicemaker.service.SessionService.getAllSessionSummary() with result = [SummaryRecord
{id=1, participants=[sachiths, anneb, matc], date='2023-10-25', name='sachiths-007eeaf9', admin='sachiths', restaurants=[Restaurant Zen, Art di Daniele Sperindio, Daniele Sperindio, Firangi Superstar], winners='F
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2023-10-26T00:05:57.243+08:00 DEBUG 77436 --- [nio-8080-exec-2] o.s.choicemaker.aspect.LoggingAspect : Exit: org.sachith.choicemaker.controller.SessionController.getAllSessionsByUser() with result = <200 OK
OK, [SummaryRecord{id=1, participants=[sachiths, anneb, matc], date='2023-10-25', name='sachiths-007eeaf9', admin='sachiths', restaurants=[Restaurant Zen, Art di Daniele Sperindio, Daniele Sperindio, Firangi Supe
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l House, Pub House PLC], winners='The Meal House'}, SummaryRecord{id=7, participants=[sachiths, johnc, anneb, matc], date='2023-10-25', name='sachiths-efe77d59', admin='sachiths', restaurants=[XYZ Rest, Coffee Ba
r LK, Kopitiam - Building X, Coffee Bean and Tea Leaves, Clarks Grill], winners='Kopitiam - Building X'}], []>

```

App Demonstration with User Journeys

Create Session Flow

01: Login to the application using username and password

CHOICEMAKER

Sign in

Username*

sachiths

Password*

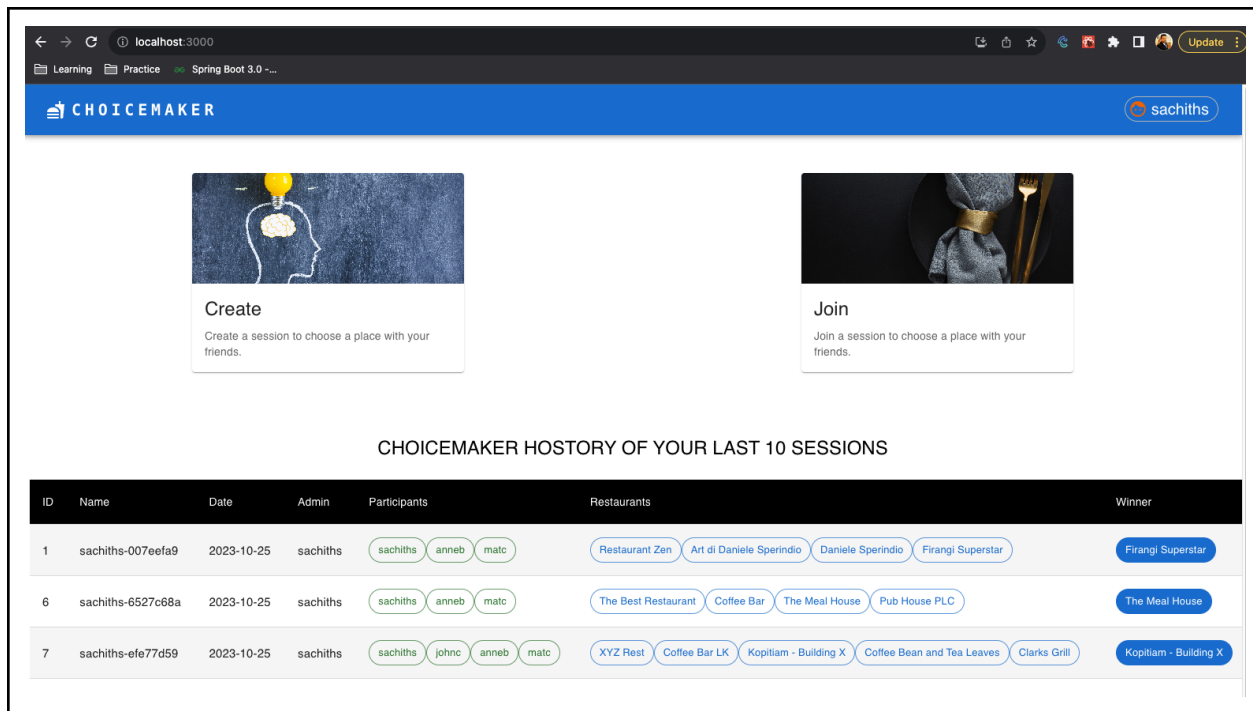
...

☐ Remember me

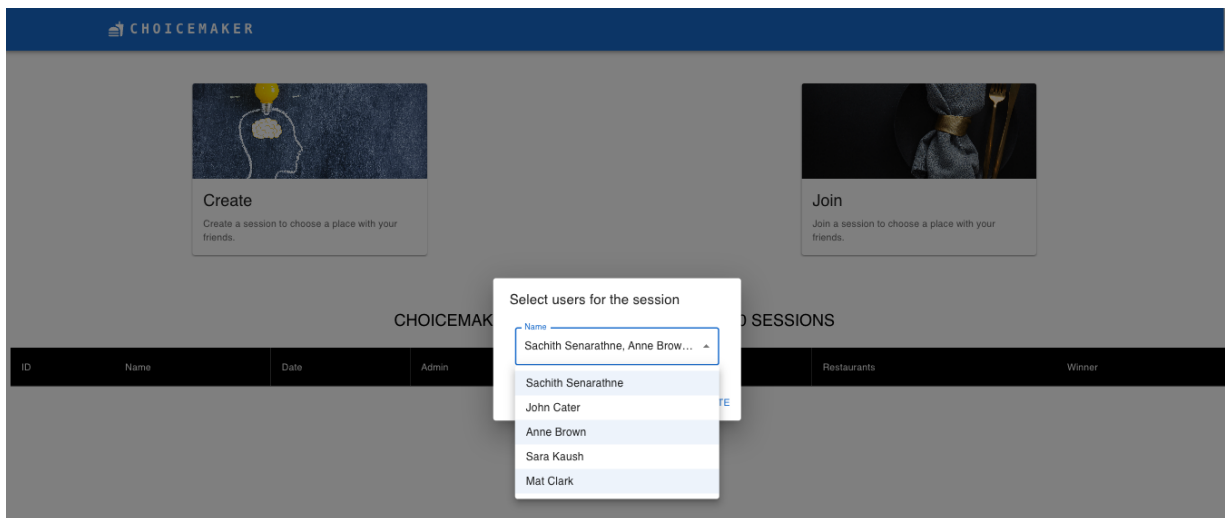
SIGN IN

[Forgot password?](#)
[Don't have an account? Sign Up](#)

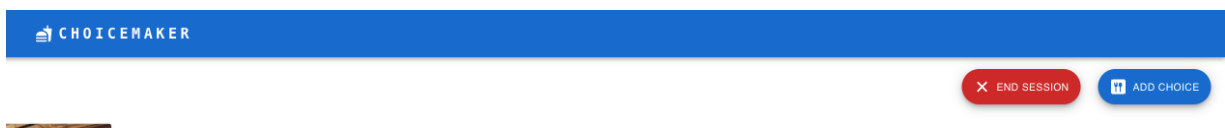
02: User will land on a Home page. Home page has links to Create or Join Session and last 10 session details of the user logged in.



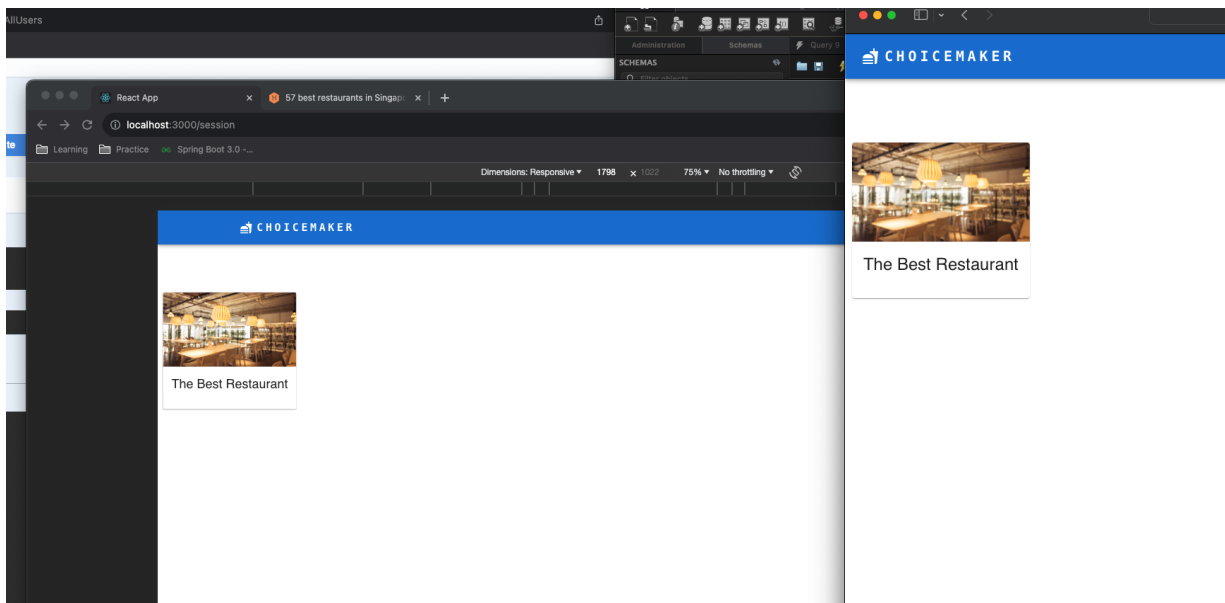
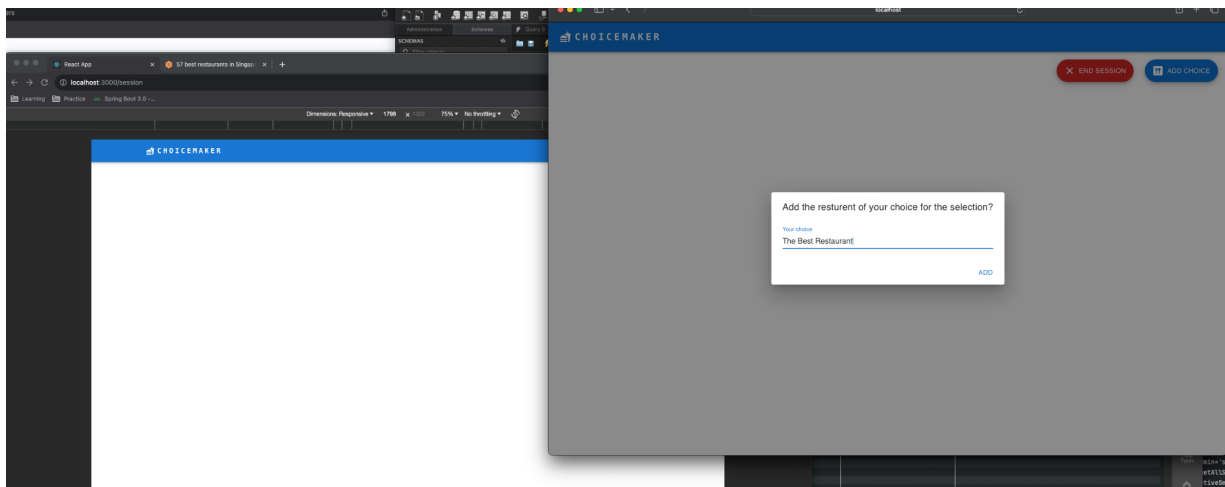
03: User can create a session by adding users who registered to the application. (Pre created users via API as user registration is not provided as a feature)



04: User will land in the Session Room and will be able to add the choices and end the session via UI controls.

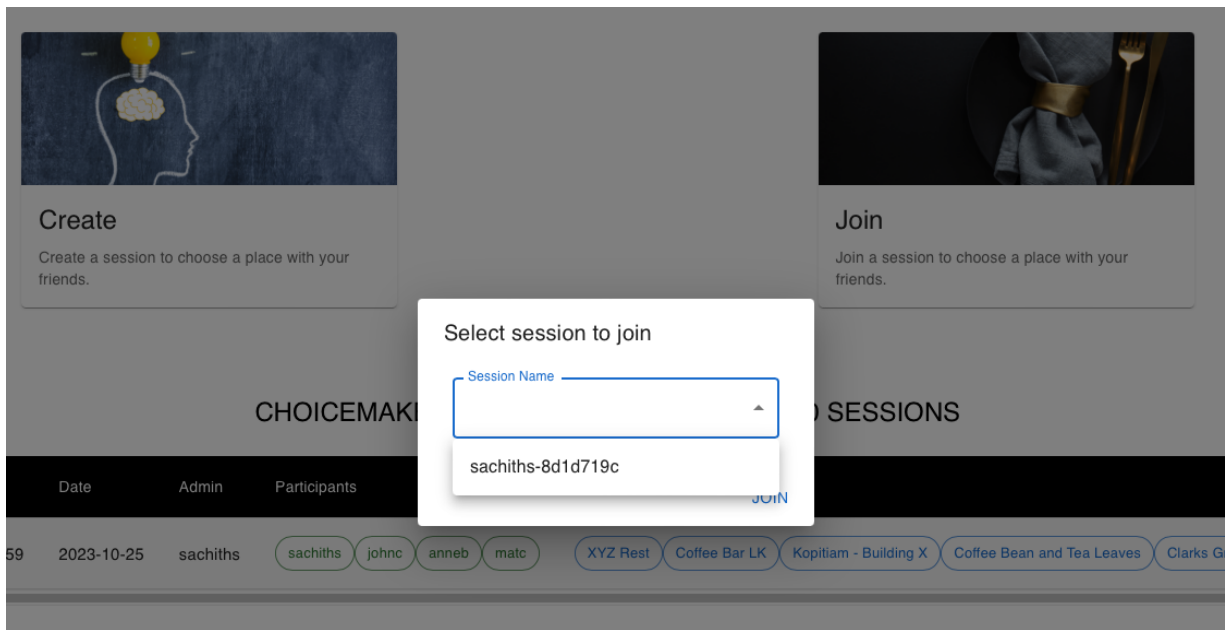


05: Add restaurant choices and it will be visible to other users instantly.

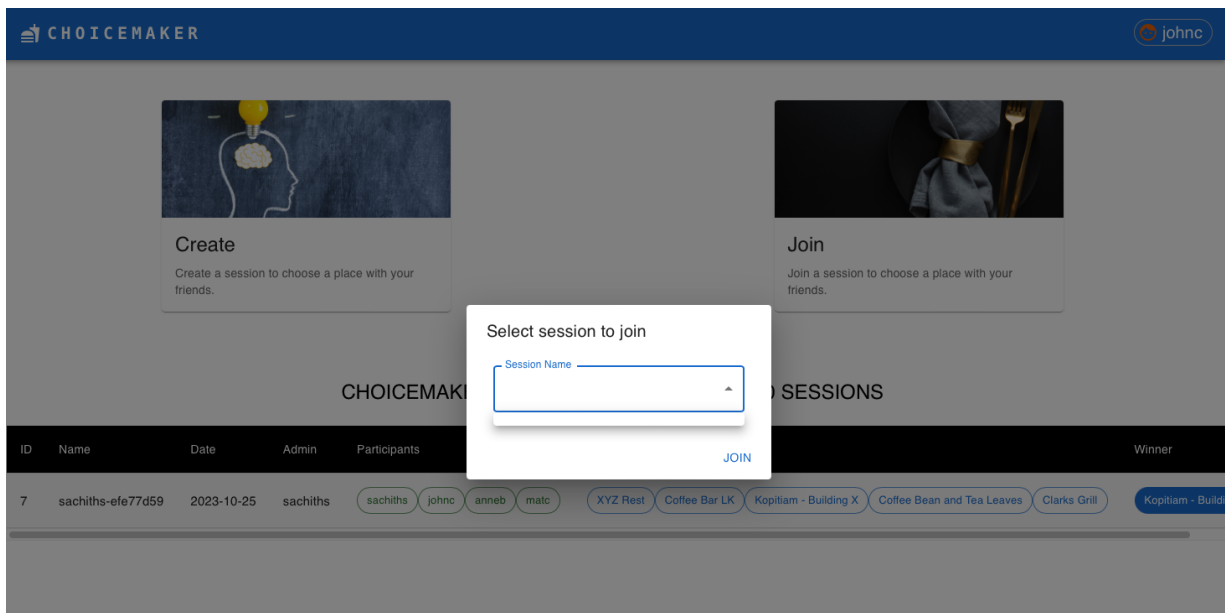


Join Session Flow

01: User login and join a session. List of sessions will be available to select and if the user has been invited, the session name will show in the dropdown. If you are not invited, you will not see the session in the dropdown.

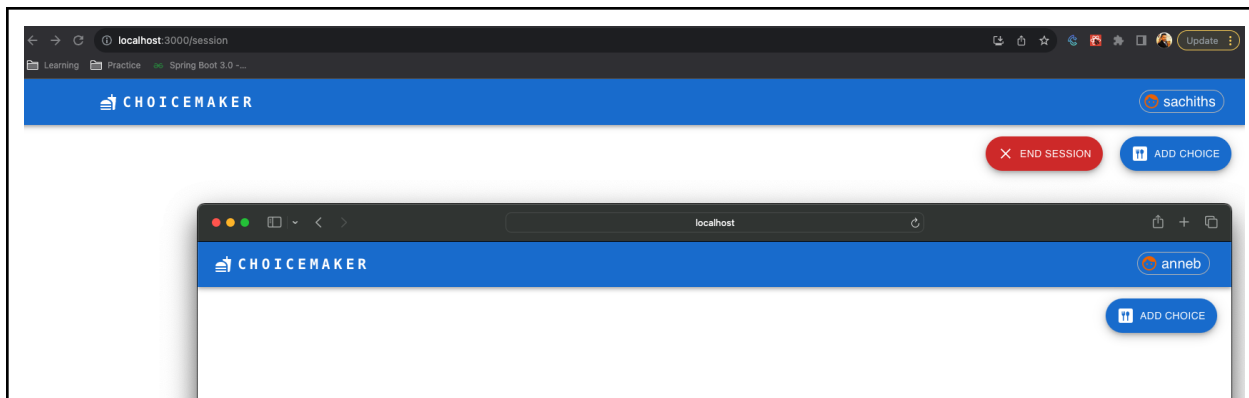


See Step 03 above, John C is not invited 😞



02: User Joins a session selected and will be able to submit choices as required.

03: As a user joins as a guest / non admin, the user will not be displayed a “END SESSION” button.



04: When the user who created the session ends the session. All the users will be instantly notified of the selected Resturent for the session. 😊
Then will land on the home page and the session ended will be added to the summary. 🙌

