

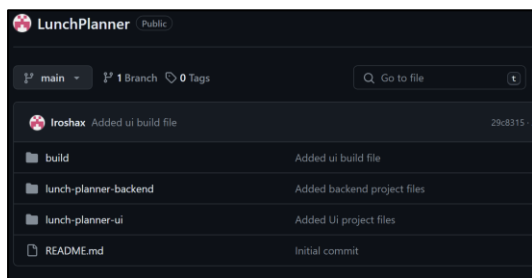
## How to run the Lunch Planner application?

### Prerequisites:

- Node.js version 16.20 or higher
- JDK/JRE 17 or Higher
- MYSQL server

### Git repository structure

There are two folders for the UI and backend. Please clone the folders to your local pc to run the application. Alternatively, I have included the UI build file inside the build folder.



### To run react UI –

In the “lunch-planner-ui” project directory, you can run:

- `npm install`

This will create the folder `node_modules` inside the project folder including all the npm modules required to run the project. This needs to be executed once.

- `npm start`

Runs the app in the development mode.

Open <http://localhost:3000> to view it in your browser.

### To run spring boot backend –

Build the project with Maven:

If you’re using Maven, you can use the `mvn clean install` command to build your project and create a `.jar` file.

- `mvn clean install`

If the build is successful, you’ll see a BUILD SUCCESS message at the end.

Run the application:

After the build is successful, a `.jar` file will be created in the target directory. You can run this `.jar` file using the `java -jar` command. If your `.jar` file is named `lunch-planner.jar`, you would type:

- `java -jar target/ lunch-planner.jar`

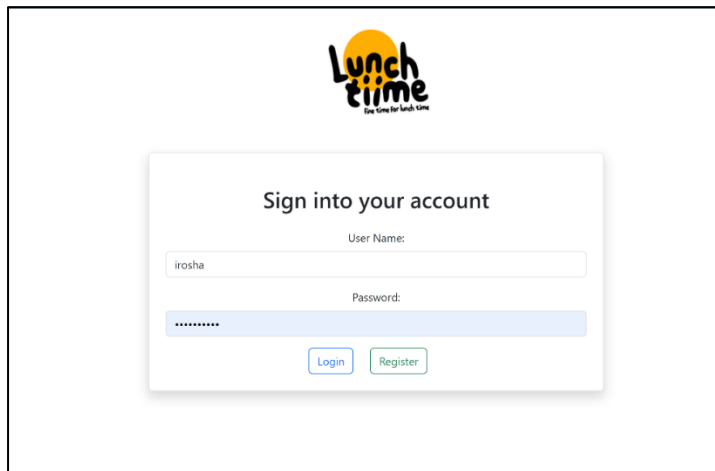
lunch-planner application should now be running, and you can access it at <http://localhost:8087>

## User Guide

To submit a restaurant for lunch, a team member has to follow below steps.

### Step 1:

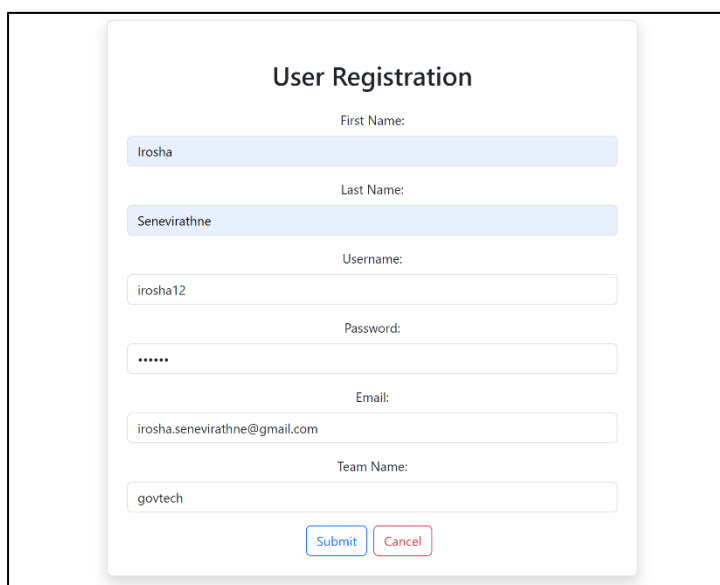
Login to the lunch planner application by typing username and password.



The screenshot shows the 'Lunch Time' logo at the top, which includes the text 'Lunch Time' and 'Easy Time for Lunch Time'. Below the logo is a 'Sign into your account' form. The form has two input fields: 'User Name' with the value 'irosha' and 'Password' with masked characters '\*\*\*\*\*'. At the bottom of the form are two buttons: 'Login' and 'Register'.

If the user is new, then click the register button to create an account. User has to fill below form and click submit button.

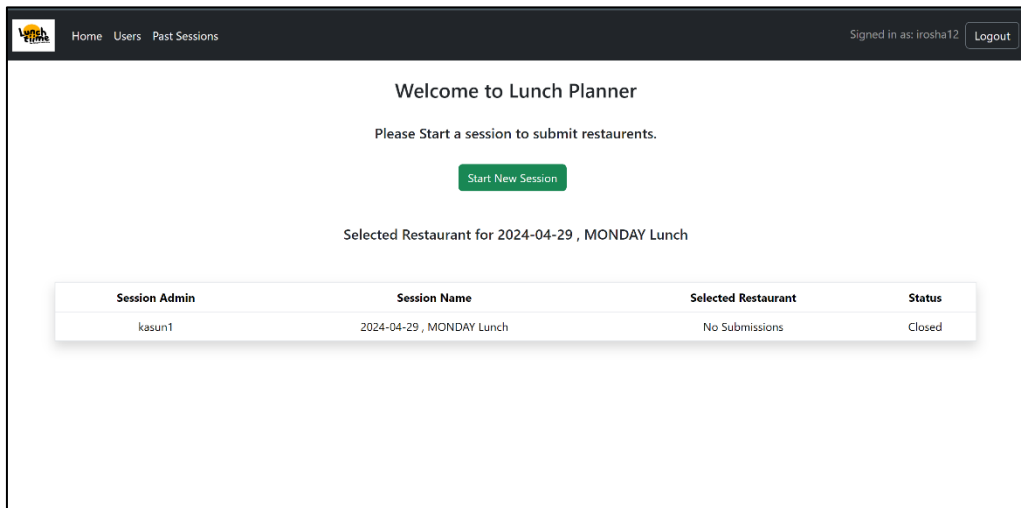
Once the registration is successful, user can login to the application.



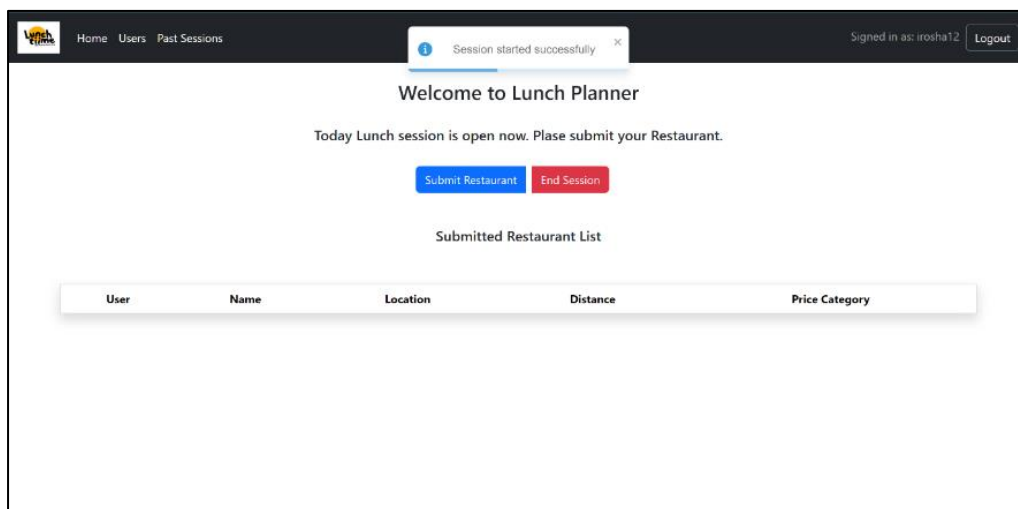
The screenshot shows a 'User Registration' form. It contains several input fields: 'First Name' with 'Irosha', 'Last Name' with 'Senevirathne', 'Username' with 'irosha12', 'Password' with masked characters '\*\*\*\*\*', 'Email' with 'irosha.senevirathne@gmail.com', and 'Team Name' with 'govtech'. At the bottom of the form are two buttons: 'Submit' and 'Cancel'.

## Step 2:

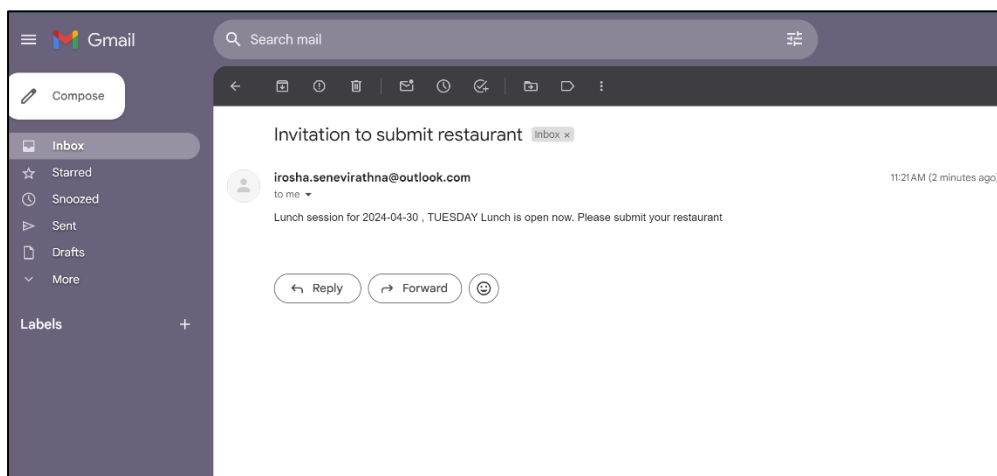
Successful login redirects user to the home page. User can start a new session by clicking the “Start New Session” button. Previous day lunch session summary also visible in the home page.



Once the session started successfully user will see the success message in the screen.



All the users registered in the system will get an email invitation to submit their restaurants.



Step 3:

The user who started the session is the session admin and only session admin can end the session.

To end the session user can click “End Session” button.

The screenshot shows the 'Lunch Planner' web application interface. At the top, there is a navigation bar with 'Home', 'Users', and 'Past Sessions' links. The user is signed in as 'irosha12'. The main content area displays a welcome message: 'Welcome to Lunch Planner' and 'Today Lunch session is open now. Please submit your Restaurant.' Below this, there are two buttons: 'Submit Restaurant' (blue) and 'End Session' (red). Underneath, a section titled 'Submitted Restaurant List' contains a table with the following data:

User	Name	Location	Distance	Price Category
john 2	pizza hut	marina bay	2 km	\$\$\$
irosha1	indian wala	7th street	4.5 km	\$
johndoe	Dominos pizza	chinatown	3km	\$\$\$

Once the session is successfully ended, user will see the success message on the screen. A random restaurant will be selected from the submission list and details will be shown in the home screen.

The screenshot shows the 'Lunch Planner' web application interface after a session has ended. A success message 'Session ended successfully' is displayed in a toast notification. The main content area displays a welcome message: 'Welcome to Lunch Planner' and 'Please Start a session to submit restaurants.' Below this, there is a 'Start New Session' button. Underneath, a section titled 'Selected Restaurant for 2024-04-29 , MONDAY Lunch' contains a table with the following data:


Session Admin	Session Name	Selected Restaurant	Status
irosha12	2024-04-29 , MONDAY Lunch	pizza hut	Closed

To submit a restaurant user can click “Submit Restaurant” button and it will open a form to fill restaurant details as below.

The screenshot shows the 'Submit Restaurant' form. It contains the following fields and buttons:

- Restaurant Name: Enter the Restaurant Name
- Location: Enter location
- Distance: Enter the Distance
- Price Category: Enter the Price Category
- Buttons: Submit, Cancel

Once the restaurant is submitted user will be redirected to the home page where all the submissions are listed for the active session.



HomeUsersPast Sessions

Signed in as: irosha12Logout

Welcome to Lunch Planner

Today Lunch session is open now. Plase submit your Restaurant.


Submit Restaurant

End Session

Submitted Restaurant List

User	Name	Location	Distance	Price Category
john 2	pizza hut	marina bay	2 km	\$\$\$
irosha1	indian wala	7th street	4.5 km	\$
johndoe	Dominos pizza	chinatown	3km	\$\$\$

To view past sessions user can click “Past Sessions” from the nav bar. It will list down all the past sessions and highlight the active session in green.



HomeUsersPast Sessions

Signed in as: irosha12Logout


Session Details

Session Id	Session Admin	Session Name	Selected Restaurant	Status
1	irosha12	2024-04-29 , MONDAY Lunch		Open
2	kasun1	2024-04-29 , MONDAY Lunch	No Submissions	Closed
3	irosha1	2024-04-29 , MONDAY Lunch	macdonalds	Closed
4	Irosha1	2024-04-29 , MONDAY Lunch	No Submissions	Closed
5	Irosha1	2024-04-28 , SUNDAY Lunch	pizza hut	Closed
6	irosha1	2024-04-28 , SUNDAY Lunch	japan bento	Closed
7	irosha1	2024-04-28 , SUNDAY Lunch	japan bento	Closed
8	Irosha1	2024-04-28 , SUNDAY Lunch	Parata place	Closed
9	Irosha1	2024-04-28 , SUNDAY Lunch	Parata place	Closed
10	irosha1	2024-04-28 , SUNDAY Lunch	Parata place	Closed

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To view all the users, click “Users” from nav bar. It will list down all the registered users in the system.



HomeUsersPast Sessions

Signed in as: irosha12Logout

User Details

#	First Name	Last Name	Username	Team	Email Address
1	Irosha	Senevirathne	irosha1	team1	irosha.senevirathne@outlook.com
2	kasun	kalhara	kasun1	team1	irosha.senevirathna@gmail.com
3	John	Doe	johndoe	Team1	john.doe@example.com
4	John	Raymond	john2	team1	john@gmail.com
5	Irosha	Senevirathne	irosha12	govtech	irosha.senevirathne@gmail.com

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To logout click the “Logout” button from the top right corner of the navbar.

## Backend API endpoint list

Method	Endpoint	Description	Request Body	Response
POST	/api/lunchPlanner/session/initiate	Initiates a session.	UserDto object	Map<String, RestaurantDto>: A map representing the session cache.
POST	/api/lunchPlanner/session/end	Ends a session.	UserDto object	RestaurantDto: The selected restaurant for the session.
GET	/api/lunchPlanner/session	Gets the list of sessions.	None	List<SessionDto>: A list of session DTOs.
GET	/api/lunchPlanner/session/latest	Gets the latest session.	None	SessionDto: The latest session DTO.
GET	/api/lunchPlanner/session/status	Gets the status of the session.	None	String: The status of the session.
GET	/api/lunchPlanner/session/active	Gets the active session.	None	Map<String, RestaurantDto> A map representing the active session cache.
POST	/api/lunchPlanner/user/register	Register new user	UserDto	None
POST	/api/lunchPlanner/user/login	User login	LoginDto	UserDto: UserDto containing user information.
GET	/api/lunchPlanner/user	Get the list of users	None	List<UserDto>: A list of user DTOs.
POST	/api/lunchPlanner/restaurant/submit	Submit restaurant to the session	RestaurantSubmitDto object	Map<String, RestaurantDto>: A map representing the session cache.

### Design Decisions

- More than one session can be initiated for a given day.
- Session admin can also submit a restaurant for an active session.
- A time limit has not been implemented for the active session at the moment.

### Special notes:

I have removed mail server account info from application.properties since I have used my personal email to configure and test email notifications. Please use a different email credential in your application.properties to run the application.