

# Application Lifecycle Management



Rodrigo Martins Pagliares

# Application Lifecycle Management



# Downloading/Cloning the HostelApp

 pagliares / hostelapp

Type ⌘ to search | > | + | ⌂ | ⌂ | ⌂ | ⌂ | ⌂ | ⌂

<> **Code** Issues Pull requests Actions Projects Wiki Security Insights Settings

 **hostelapp** Public

Pin Unwatch 1 Fork 0 Star 0

 Set up GitHub Copilot Use GitHub's AI pair programming. Get started with GitHub Copilot.

 Add collaborators to this repository

**TODO: REPLACE SCREENSHOT AFTER CREATING README.MD**

Quick setup - Set up in Desktop

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# hostelapp" >> README.md  
git init  
git add README.md  
git commit -m "first commit"  
git branch -M main  
git remote add origin https://github.com/pagliares/hostelapp.git  
git push -u origin main
```

...or push an existing repository from

```
git remote add origin https://github.com/pagliares/hostelapp.git  
git branch -M main
```

**<https://github.com/pagliares/hostelapp>**

# Opening the HostelApp in IntelliJ Ultimate Edition

# IntelliJ IDEA

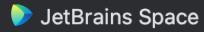
Ultimate 2023.2

JET  
BRAINS



Projects

Remote Development Beta



Customize

Plugins 2

Learn

## Welcome to IntelliJ IDEA

Create a new project to start from scratch.

Open existing project from disk or version control.



New Project



Open



Get from VCS



Project ▾

HostelApp ~/Dropbox/Software\_Projects/HostelApp/

- .idea
- Hostel\_App\_Back\_End\_API [customer-services]
- Hostel\_App\_Front\_End\_MVC [customer-app]
- Slides
- .gitignore
- External Libraries
- Scratches and Consoles

Search Everywhere Double ▾

Go to File ⌘⌘O

Recent Files ⌘E

Navigation Bar ⌘↑

Drop files here to open them

HostelApp



Projects

Remote Development Beta



## Welcome to IntelliJ IDEA

HostelApp

Search

Cu	Dropbox	01_Product_Positioning	Classes_Development_App_Code	Hostel_App_End_API
Plu	Recents	02_Requirements_Specification	Java_SE	Hostel_App_Start_MVC
Lea	Applicati...	Class_Diagram	Git_Hub_Repository	Slides
	Desktop	Domain_Model	HostelApp	
	Documents	IDE		
	Downloads	Images_Used_in_Classes		
	Locations	Information_Architecture		
	iCloud Dr...	Prototypes		
	Tags	Slides_Demo_Authorization		
	Red	Source_Code		
	Orange	System_Sequence_Diagram		
	Yellow	Tests		
	Green			
	Blue			
	Purple			

New Folder

Cancel

Open



The screenshot shows a dark-themed IDE interface with two open projects:

- HostelApp** (~Dropbox/Software\_Projects/HostelApp/Source)
- CustomerMainApplication**

The left sidebar displays the project structure for **HostelApp**:

- Project** (dropdown)
- HostelApp** (~Dropbox/Software\_Projects/HostelApp/Source)
  - .idea
  - Hostel\_App\_Back\_End\_API [customer-services]** (selected)
    - .idea
    - src
      - main
      - java
        - com.hostelapp.services
          - Customer
          - CustomerModel
          - CustomerNotFoundException
          - CustomerRepository
          - CustomerServicesApplication
          - CustomerServicesController
        - resources
          - application.properties
          - data.sql
          - schema.sql
      - test
    - pom.xml
    - Hostel\_App\_Front\_End\_MVC [customer-app]
    - Slides
    - .gitignore
    - External Libraries
    - Scratches and Consoles

The right panel contains several UI elements:

- Search Everywhere Double ⌘
- Go to File ⌘⌘O
- Recent Files ⌘E
- Navigation Bar ⌘↑
- Drop files here to open them

Bottom navigation icons include: Home, Project, Recent, External Libraries, Scratches and Consoles, and Help.

Bottom status bar: HostelApp > Hostel\_App\_Back\_End\_API

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Bar:** Contains icons for file operations (New, Open, Save, Import, Export, Find, Replace, etc.).
- Project View (Left):** Shows the project structure under "Hostel\_App\_Front\_End\_MVC [customer-app]".
  - Root: .idea
  - src
    - main
      - java
        - com.hostelapp
          - auth
            - AuthGroup
            - AuthGroupRepository
            - HostelAppUserDetailsService
            - HostelAppUserPrincipal
            - User
            - UserRepository
          - domain
            - Customer
            - CustomerModel
          - service
            - CustomerService
            - ApplicationSecurityConfiguration
            - CustomerController
            - CustomerMainApplication
        - resources
          - static
            - css
              - site.css
            - images
              - Balneario.jpg
              - Pagliares-150x150.png
            - js
              - table.js
          - templates
            - application.properties
            - data.sql
            - schema.sql
  - Editor View (Right):** A large pane for code editing.
  - Toolbars and Menus:** Standard IntelliJ IDEA toolbars and menus like "File", "Edit", "Tools", etc.
  - Bottom Status Bar:** Displays the current file path: "HostelApp > Hostel\_App\_Front\_End\_MVC".

Project ▾

- CustomerModel
- service
  - CustomerService
  - ApplicationSecurityConfiguration
  - CustomerController
  - CustomerMainApplication
- resources
  - static
    - css
      - site.css
    - images
      - Balneario.jpg
      - Pagliares-150x150.png
    - js
      - table.js
  - templates
    - contact.html
    - customer-view.html
    - customers-view.html
    - error.html
    - index.html
    - layout.html
    - login.html
    - logout.html
    - park.html
    - technologies.html
- application.properties
- data.sql
- schema.sql
- test
- pom.xml
- Slides
- .gitignore
- External Libraries
- Scratches and Consoles

Search Everywhere Double ▾

Go to File ⌘O

Recent Files ⌘E

Navigation Bar ⌘↑

Drop files here to open them

Project ▾

HostelApp ~/Dropbox/Software\_Projects/HostelApp/Source

- .idea
- Hostel\_App\_Back\_End\_API [customer-services]
- Hostel\_App\_Front\_End\_MVC [customer-app]
- Slides
- .gitignore
- External Libraries
- Scratches and Consoles

Search Everywhere Double ⌂

Go to File ⌂⌘O

Recent Files ⌂E

Navigation Bar ⌂↑

Drop files here to open them

Services

Spring Boot

- Not Started
- CustomerMainApplication [devtools]
- CustomerServicesApplication

Start/Stop selected configurations

HostelApp

Project ▾

-o HostelApp ~/Dropbox/Software\_Projects/HostelApp/Source

- > .idea
- > Hostel\_App\_Back\_End\_API [customer-services]
- > Hostel\_App\_Front\_End\_MVC [customer-app]
- > Slides
- ∅ .gitignore
- > External Libraries
- > Scratches and Consoles

Search Everywhere Double ⌂

Go to File ⌂⌘O

Recent Files ⌂E

Navigation Bar ⌂↑

Drop files here to open them

Services

Spring Boot

- Not Started
- CustomerMainApplication [devtools]
- CustomerServicesApplication

Docker

Start/Stop selected configurations

Project ▾

- HostelApp ~/Dropbox/Software\_Projects/HostelApp/Source
- .idea
- Hostel\_App\_Back\_End\_API [customer-services]
- Hostel\_App\_Front\_End\_MVC [customer-app]
- Slides
- .gitignore
- External Libraries
- Scratches and Consoles

Services

Console Actuator

Object	Description
s.w.s.m.m.a.RequestMappingHandlerMapping	: Mapped "{{[/error]}}" onto public org.springframework.web.servlet.HandlerMapping
o.s.w.s.handler.SimpleUrlHandlerMapping	: Mapped URL path [/webjars/**] onto handler
o.s.w.s.handler.SimpleUrlHandlerMapping	: Mapped URL path [/**] onto handler of type
o.s.w.s.handler.SimpleUrlHandlerMapping	: Mapped URL path [/**/favicon.ico] onto han
s.b.a.e.w.s.WebMvcEndpointHandlerMapping	: Mapped "{{[/actuator/health],methods=[GET],produces=[application/hal+json]}}" onto endpoint
s.b.a.e.w.s.WebMvcEndpointHandlerMapping	: Mapped "{{[/actuator/info],methods=[GET],produces=[application/hal+json]}}" onto endpoint
s.b.a.e.w.s.WebMvcEndpointHandlerMapping	: Mapped "{{[/actuator],methods=[GET],produces=[application/hal+json]}}" onto endpoint
o.s.j.e.a.AnnotationMBeanExporter	: Registering beans for JMX exposure on star
o.s.j.e.a.AnnotationMBeanExporter	: Bean with name 'dataSource' has been autod
o.s.j.e.a.AnnotationMBeanExporter	: Located MBean 'dataSource': registering wi
o.s.b.w.embedded.tomcat.TomcatWebServer	: Tomcat started on port(s): 8100 (http) wit
c.h.s.CustomerServicesApplication	: Started CustomerServicesApplication in 6.1
o.a.c.c.C.[Tomcat].[localhost].[/]	: Initializing Spring FrameworkServlet 'disp
o.s.web.servlet.DispatcherServlet	: FrameworkServlet 'dispatcherServlet': init
o.s.web.servlet.DispatcherServlet	: FrameworkServlet 'dispatcherServlet': init

HostelApp

```
[{"id":1,"firstName":"Jay","lastName":"Gatsby","emailAddress":"jay@gmail.com","address":"1187 Fleming Street","country":"United States","state":"AL","phoneNumber":"+1-205-555-0178"}, {"id":2,"firstName":"Holden","lastName":"Caulfield","emailAddress":"holden@mit.edu","address":"3998 Davis Lane","country":"United States","state":"CO","phoneNumber":"+1-303-555-0137"}, {"id":3,"firstName":"Humbert","lastName":"Humbert","emailAddress":"humbert@gmail.com","address":"499 McKinley Avenue","country":"United States","state":"CO","phoneNumber":"+1-303-555-0156"}, {"id":4,"firstName":"Leopold","lastName":"Bloom","emailAddress":"bloom@blogs.com","address":"4239 Marigold Lane","country":"United States","state":"FL","phoneNumber":"+1-561-555-0145"}, {"id":5,"firstName":"Rabbit","lastName":"Angstrom","emailAddress":"angstrom@hotmail.com","address":"4306 Jacobs Street","country":"United States","state":"FL","phoneNumber":"+1-561-555-0135"}, {"id":6,"firstName":"Sherlock","lastName":"Holmes","emailAddress":"holmes@aol.com","address":"1395 Dola Mine Road","country":"United States","state":"AK","phoneNumber":"+1-907-555-0187"}, {"id":7,"firstName":"Atticus","lastName":"Finch","emailAddress":"finch@hotmail.com","address":"3566 Parkway Drive","country":"United States","state":"AZ","phoneNumber":"+1-480-555-0198"}, {"id":8,"firstName":"Molly","lastName":"Bloom","emailAddress":"molly@microsoft.com","address":"4206 Mulberry Avenue","country":"United States","state":"AR","phoneNumber":"+1-501-555-0120"}, {"id":9,"firstName":"Stephen","lastName":"Dedalus","emailAddress":"dedalus@apple.com","address":"359 Hide A Way Road","country":"United States","state":"CA","phoneNumber":"+1-510-555-0183"}, {"id":10,"firstName":"Lily","lastName":"Bart","emailAddress":"bart@gmail.com","address":"639 Airplane Avenue","country":"United States","state":"CT","phoneNumber":"+1-860-555-0154"}, {"id":11,"firstName":"Holly","lastName":"Golightly","emailAddress":"golightly@gmail.com","address":"3786 Scenic Way","country":"United States","state":"IL","phoneNumber":"+1-847-555-0127"}, {"id":12,"firstName":"Gregor","lastName":"Samsa","emailAddress":"samsa@yahoo.com","address":"1833 Don Jackson Lane","country":"United States","state":"HI","phoneNumber":"+1-808-555-0162"}, {"id":13,"firstName":"Aureliano","lastName":"Buendia","emailAddress":"buendia@yahoo.com","address":"2195 Eagle Street","country":"United States","state":"IL","phoneNumber":"+1-847-555-0151"}, {"id":14,"firstName":"Clarissa","lastName":"Dalloway","emailAddress":"dalloway@gmail.com","address":"1632 Pearlman Avenue","country":"United States","state":"KS","phoneNumber":"+1-785-555-0189"}, {"id":15,"firstName":"Ignatius","lastName":"Reilly","emailAddress":"reilly@gmail.com","address":"1632 Pearlman Avenue","country":"United States","state":"WI","phoneNumber":"+1-920-555-0109"}, {"id":16,"firstName":"George","lastName":"Smiley","emailAddress":"smiley@gmail.com","address":"2436 Williams Lane","country":"United States","state":"KS","phoneNumber":"+1-785-555-0132"}, {"id":17,"firstName":"Winnie","lastName":"Pooh","emailAddress":"pooh@yahoo.com","address":"3529 Cheshire Road","country":"United States","state":"CT","phoneNumber":"+1-860-555-0146"}, {"id":18,"firstName":"Bigger","lastName":"Thomas","emailAddress":"thomas@hotmail.com","address":"3091 Doctors Drive","country":"United States","state":"CA","phoneNumber":"+1-510-555-0112"}, {"id":19,"firstName":"Nick","lastName":"Adams","emailAddress":"adams@gmail.com","address":"3199 Ryan Road","country":"United States","state":"SD","phoneNumber":"+1-605-555-0121"}, {"id":20,"firstName":"Scarlett","lastName":"OHara","emailAddress":"ohara@gmail.com","address":"3502 Station Street","country":"United States","state":"CA","phoneNumber":"+1-510-555-0187"}, {"id":21,"firstName":"Scout","lastName":"Finch","emailAddress":"finch@gmail.com","address":"2552 Cedar Street","country":"United States","state":"AR","phoneNumber":"+1-501-555-0132"}, {"id":22,"firstName":"Philip","lastName":"Marlowe","emailAddress":"marlowe@hotmail.com","address":"2810 Polk Street","country":"United States","state":"AZ","phoneNumber":"+1-480-555-0147"}, {"id":23,"firstName":"Cosimo","lastName":"di Rondo","emailAddress":"dirondo@gmail.com","address":"4772 Pinewood Drive","country":"United States","state":"AK","phoneNumber":"+1-907-555-0178"}]
```

```
{"id":5,"firstName":"Rabbit","lastName":"Angstrom","emailAddress":"angstrom@hotmail.com","address":"4306 Jacobs Street","country":"United States","state":"FL","phoneNumber":"+1-561-555-0135"}
```

# Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Fri Jan 05 12:01:09 BRT 2024

There was an unexpected error (type=Not Found, status=404).

Customer not found with id: 50

Project

- o HostelApp ~/Dropbox/Software\_Projects/HostelApp/Sourc
  - > .idea
  - > Hostel\_App\_Back\_End\_API [customer-services]
  - > Hostel\_App\_Front\_End\_MVC [customer-app]
  - > Slides
  - ∅ .gitignore
  - > External Libraries
  - > Scratches and Consoles

CustomerServicesApplicationTests

CustomerMainApplication

CustomerServicesApplication

Run 'CustomerMainApplication'

Current File

Edit Configurations...

Services

Spring Boot

- > Running
- > CustomerServicesApplication :8100/
- > Not Started
- CustomerMainApplication [devtools]

Docker

Start/Stop selected configurations



Project ▾

- HostelApp ~/Dropbox/Software\_Projects/HostelApp/Source
  - .idea
  - Hostel\_App\_Back\_End\_API [customer-services]
  - Hostel\_App\_Front\_End\_MVC [customer-app]
  - Slides
  - .gitignore
  - External Libraries
  - Scratches and Consoles

Services

Console Actuator

- Spring Boot
- Running
- CustomerMainApplication [devtools] :8000
- CustomerServicesApplication :8100
- Docker

Log Level	Message
INFO	o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] onto handler of type
INFO	o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**/favicon.ico] onto han
INFO	o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome page template: index
INFO	o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
INFO	s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/actuator/health],methods=[GET],pro
INFO	s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/actuator/info],methods=[GET],pr
INFO	s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/actuator],methods=[GET],produ
INFO	o.s.j.e.a.AnnotationMBeanExporter : Registering beans for JMX exposure on stan
INFO	o.s.j.e.a.AnnotationMBeanExporter : Bean with name 'dataSource' has been auto
INFO	o.s.j.e.a.AnnotationMBeanExporter : Located MBean 'dataSource': registering w
INFO	o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) wi
INFO	com.hostelapp.CustomerMainApplication : Started CustomerMainApplication in 7.623 s
INFO	o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring FrameworkServlet 'dispatc
INFO	o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': init
INFO	o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': init

# Sparkling Water hostel

The *hostel Sparkling Water* is a fictitious hostel located in Caxambu-MG, Brazil. Caxambu is a small town (its population in 2020 was estimated at 22,000), renowned for its spa which has twelve sources of sparkling mineral water flowing 24 hours a day and a cold-water geyser.

Caxambu is the only place in the world with 12 mineral water springs, each with different chemical properties.

## Park

The Water Park is the main attraction in town.



Photo of the bathhouse located at the Water Park

## How to get to the hostel?

### From Rio de Janeiro

Via BR-116 (Presidente Dutra) west past Resende-RJ to the village of Engenheiro Passos-RJ and take BR-354 north.

### From Belo Horizonte or São Paulo

Via BR-381 to Campanha-MG, then west on BR-267.

## Famous tourism quotes

"Never go on trips with anyone you do not love." *Ernest Hemingway*

"To travel is to discover that everyone is wrong about other countries."

*Aldous Huxley*

# Online Demo

A screencast with demonstration of the web application is available at YouTube

YouTube BR

Pesquisar

localhost:8080/index

Sparkling Water Hostel Customers Login

## Sparkling Water hostel

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Demonstração da aplicação web para o Hostel Sparkling Water

Não listado

1 visualização • 18 de fev. de 2022

Rodrigo Pagliares 1,79 mil inscritos

ANALYTICS EDITAR VÍDEO

https://bit.ly/3JxW6II

What's next?

# Demo

Demonstration of the web application  
(Hostel Sparkling Water)

I created a set of slides with step-by-step instructions on how to use the HostelApp. Check it out!

The screenshot shows the homepage of the Hostel Sparkling Water website. It features a red header with the hostel's name. Below the header, there are several sections: a "Park" section with a photo of a bathhouse and a short description; a "Famous tourism quotes" section with two quotes from Ernest Hemingway and Aldous Huxley; and a "Directions" section with driving instructions from Belo Horizonte or São Paulo. The overall layout is clean and organized.

Homepage just after accessing the web application for the hostel Sparkling Water

In this example, Florentino is a reservation manager and can see the list of customers AND register new customers. Fermina is a receptionist. She can see the list of customers of the hostel, but she CANNOT create new customers. Let's authenticate with the user **florentino** (with password equals to password)

Slides/Authentication\_Authorization\_HostelApp.pdf

# Questions?