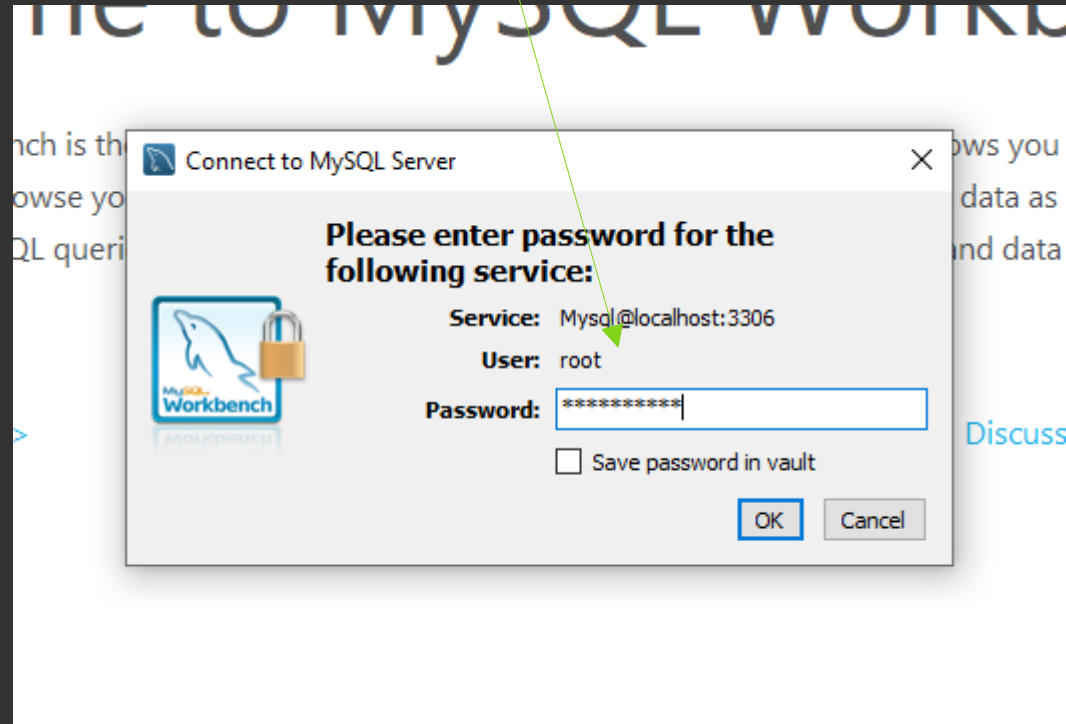


Akilles101





Navigator

## SCHEMAS

Filter objects

- dbagenda
  - Tables
    - contatos
  - Views
  - Stored Procedures
  - Functions
- sakila
- sys
- world

Administration Schemas

Information

No object selected

agenda x



Limit to 1000 rows

```
1 • CREATE DATABASE dbagenda;
2 • show databases;
3 • use dbagenda;
4 • create table contatos(
5     idcon int primary key auto_increment,
6     nome varchar(50) not null,
7     fone varchar(15) not null,
8     email varchar(50)
9 );
10 • show tables;
11 • describe contatos;
12 /* CRUD CREATE */
13 • insert into contatos (nome,fone,email) values ('Bill Gates', '99999-1111', 'Gates@outlook.com');
14
15 /* CRUD READ */
16 • select * from contatos order by nome;
17 • select * from contatos where idcon = 3;
18 • select * from contatos;
```

Ctrl + enter

Output

Action Output

#	Time	Action	Message
1	13:19:38	use dbagenda	0 row(s) affected

MySQL Workbench

Local instance MySQL80

FileEditViewQueryDatabaseServerToolsScriptingHelp

SQL

SQL

Navigator

agenda

Limit to 1000 rows

SCHEMAS

Filter objects

dbagenda

- Tables
  - contatos
- Views
- Stored Procedures
- Functions

sakila

sys

world

AdministrationSchemas

Information

No object selected

describe contatos;

/\* CRUD CREATE \*/

insert into contatos (nome,fone,email) values ('Bill Gates', '99999-1111', 'Gates@outlook.com');

/\* CRUD READ \*/

select \* from contatos order by nome;

select \* from contatos where idcon = 1;

/\* CRUD UPDATE \*/

update contatos set nome="Bruce Wayne" where idcon = 1;

select \* from contatos;

Result Grid

Filter Rows:

Edit

Export/Import:

Wrap Cell Content:

Result Grid

	idcon	nome	fone	email
▶	1	Bill Gates	99999-1111	Gates@outlook.com
*	NULL	NULL	NULL	NULL

contatos 3

ApplyRevertContext Help

Output

Action Output

	#	Time	Action	Message
✓	2	13:23:36	insert into contatos (nome,fone,email) values ('Bill Gates', '99999-1111', 'Gates@outlook.com')	1 row(s) affected
✓	3	13:23:43	select * from contatos where idcon = 3 LIMIT 0, 1000	1 row(s) returned

Automatic disabled. Use manually current car toggle au



## SCHEMAS

Filter objects

- dbagenda
  - Tables
    - contatos
  - Views
  - Stored Procedures
  - Functions
- sakila
- sys
- world

Administration Schemas

No object selected



```
11 • describe contatos;  
12 /* CRUD CREATE */  
13 • insert into contatos (nome,fone,email) values ('Bill Gates', '99999-1111', 'Gates@outlook.com');  
14  
15 /* CRUD READ */  
16 • select * from contatos order by nome;  
17 • select * from contatos where idcon = 1;  
18  
19 /* CRUD UPDATE */  
20 • update contatos set nome="Bruce Wayne" where idcon = 1;  
21 • select * from contatos;
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	idcon	nome	fone	email
▶	1	Bruce Wayne	99999-1111	Gates@outlook.com
*	NULL	NULL	NULL	NULL

contatos 4 x

Apply

Revert

Context Help



Navigator

## SCHEMAS

Filter objects

- dbagenda
  - Tables
    - contatos
  - Views
  - Stored Procedures
  - Functions
- sakila
- sys
- world

Administration Schemas

Information

No object selected

agenda x



Limit to 1000 rows

```
4 • create table contatos(  
5     idcon int primary key auto_increment,  
6     nome varchar(50) not null,  
7     fone varchar(15) not null,  
8     email varchar(50)  
9 );  
10 • show tables;  
11 • describe contatos;  
12 /* CRUD CREATE */  
13 • insert into contatos (nome,fone,email) values ('Bill Gates', '99999-1111', 'Gates@outlook.com');  
14  
15 /* CRUD READ */  
16 • select * from contatos order by nome;  
17 • select * from contatos where idcon = 1;  
18  
19 /* CRUD UPDATE */  
20 • update contatos set nome="Bruce Wayne" where idcon = 1;  
21 • update contatos set nome='Bruce Wayne Jr', fone='55555-5555',email='bruce@gmail.com' where idcon = 1;  
22 • select * from contatos;
```

Output

Action Output

#	Time	Action	Message
5	13:23:59	select * from contatos where idcon = 1 LIMIT 0, 1000	1 row(s) returned

SQLAddit

Auto  
disab  
man  
curre  
tog

Context H



## SCHEMAS

Filter objects

- dbagenda
  - Tables
    - contatos
  - Views
  - Stored Procedures
  - Functions
- sakila
- sys
- world

Administration Schemas

No object selected

agenda x

```
7 fone varchar(15) not null,  
8 email varchar(50)  
9 );  
10 • show tables;  
11 • describe contatos;  
12 /* CRUD CREATE */  
13 • insert into contatos (nome,fone,email) values ('Bill Gates', '99999-1111', 'Gates@outlook.com');  
14  
15 /* CRUD READ */  
16 • select * from contatos order by nome;  
17 • select * from contatos where idcon = 1;  
18
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	idcon	nome	fone	email
▶	1	Bruce Wayne Jr	55555-5555	bruce@gmail.com
*	NULL	NULL	NULL	NULL

contatos 5 x

Apply

Revert

Output

Result  
Grid



Project Exp... X novo.html validator.js Controller.java agenda.jsp index.html JavaBeans.java DAO.java style.css editar.jsp X

agenda

- Deployment Descripto
- JAX-WS Web Services
- Java Resources
- build
- src
  - main
    - java
    - webapp
      - imagens
      - META-INF
      - scripts
      - WEB-INF
        - agenda.jsp
        - editar.jsp
        - index.html
        - novo.html
        - style.css
- apirest
- demo
- Hello
- HelloJSP
- Hello Tomcat
- Servers

```
1 <%@ page language="java" contentType="text/html; charset=utf-8"
2   pageEncoding="utf-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6   <meta charset="utf-8">
7   <title>Agenda de contatos</title>
8   <link rel="icon" href="imagens/favicon.png">
9   <link rel="stylesheet" href="style.css">
10 </head>
11 <body>
12   <h1>Editar contato</h1>
13   <form name="frmContato" action="update">
14     <table>
15       <tr>
16         <td><input type="text" name="idcon" id="caixa3" readonly
17           value="<%out.print(request.getAttribute("idcon")): %>"></td>
```

Markers Properties Servers Data Source Explorer Snippets Console X

No consoles to display at this time.



Project Explorer

agenda

Deployment Descriptor

JAX-WS Web Services

Java Resources

build

src

main

java

webapp

imagens

META-INF

scripts

WEB-INF

agenda.jsp

editar.jsp

index.html

novo.html

style.css

apirest

demo

Hello

HelloJSP

Hello Tomcat

Servers

```
1 age controller;
2
3+rt java.io.IOException;
14
15 Servlet(urlPatterns = {"/controller", "/main", "/insert", "/select", "/update"})
16 ic class Controller extends HttpServlet {
17 private static final long serialVersionUID = 1L;
18 //criando um objetos
19 DAO dao = new DAO();
20 JavaBeans contato = new JavaBeans();
21
22 public Controller() {
23     super();
24 }
25
26 protected void doGet(HttpServletRequest request, HttpServletResponse response) th
27     String action = request.getServletPath();
```

Markers Properties Servers Data Source Explorer Snippets Console

No consoles to display at this time.

- agenda
  - Deployment Descripto
  - JAX-WS Web Services
  - Java Resources
  - build
  - src
    - main
      - java
      - webapp
        - imagens
        - META-INF
        - scripts
        - WEB-INF
          - agenda.jsp
          - editor.jsp
          - index.html
          - novo.html
          - style.css
  - apiREST
  - demo
  - Hello
  - HelloJSP
  - Hello Tomcat
  - Servers

```
25
26 protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
27     String action = request.getServletPath();
28     System.out.println(action);
29     if (action.equals("/main")) {
30         contatos(request, response);
31     } else if (action.equals("/insert")) {
32         novoContato(request, response);
33     } else if (action.equals("/select")) {
34         listarContato(request, response);
35     } else if (action.equals("/update")) {
36         editarContato(request, response);
37     } else {
38         response.sendRedirect("index.html");
39     }
40 }
```

Project Explorer: agenda, Deployment Descriptors, JAX-WS Web Services, Java Resources, build, src, main, java, webapp, imagens, META-INF, scripts, WEB-INF, agenda.jsp, editar.jsp, index.html, novo.html, style.css, apiREST, demo, Hello, HelloJSP, Hello Tomcat, Servers

Editor: Controller.java

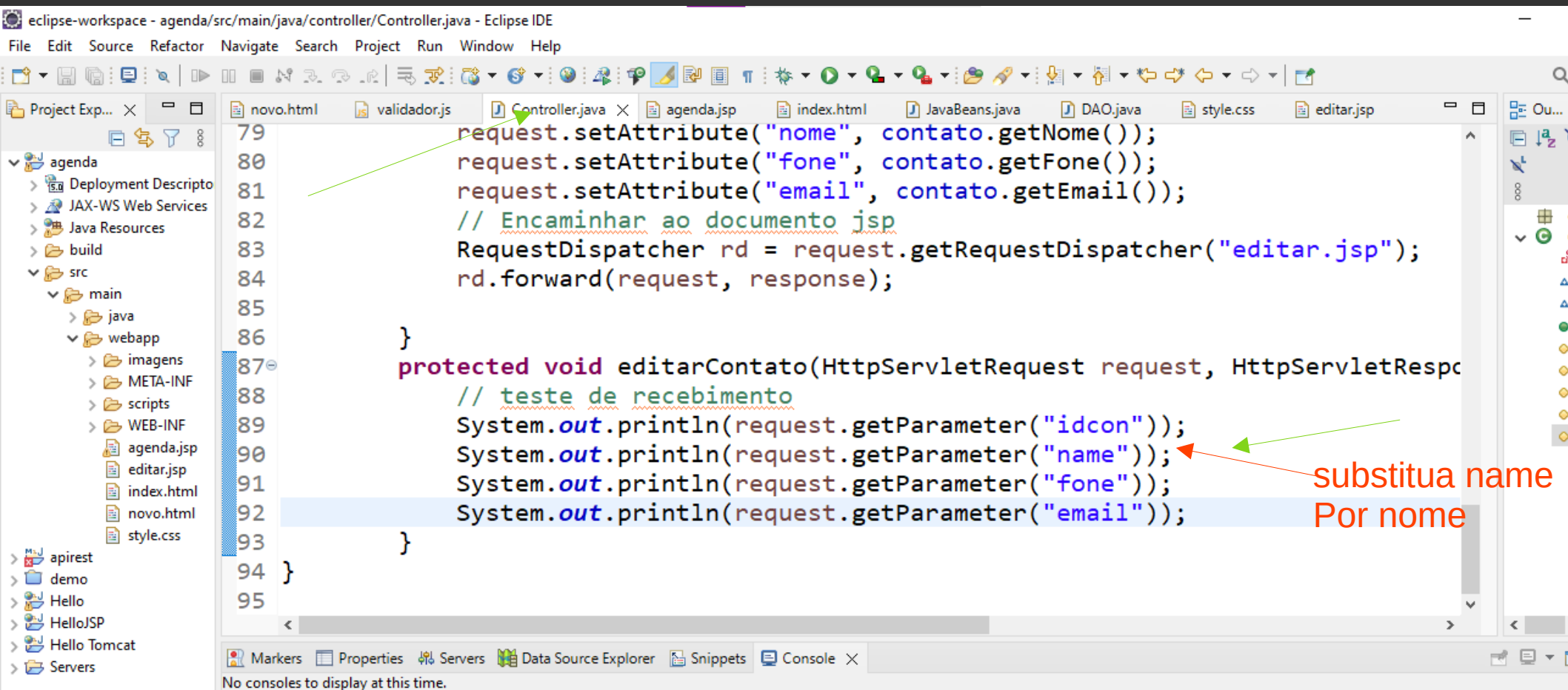
```
76 dao.selecionarContato(contato);
77 // setar os atributos do formulario com o conteudo JavaBeans
78 request.setAttribute("idcon", contato.getIdcon());
79 request.setAttribute("nome", contato.getNome());
80 request.setAttribute("fone", contato.getFone());
81 request.setAttribute("email", contato.getEmail());
82 // Encaminhar ao documento jsp
83 RequestDispatcher rd = request.getRequestDispatcher("editar.jsp");
84 rd.forward(request, response);
85
86 }
87 protected void editarContato(HttpServletRequest request, HttpServletResponse response) {
88     // teste de recebimento
89     System.out.println(request.getParameter("idcon"));
90 }
91 }
92
```

Markers Properties Servers Data Source Explorer Snippets Console

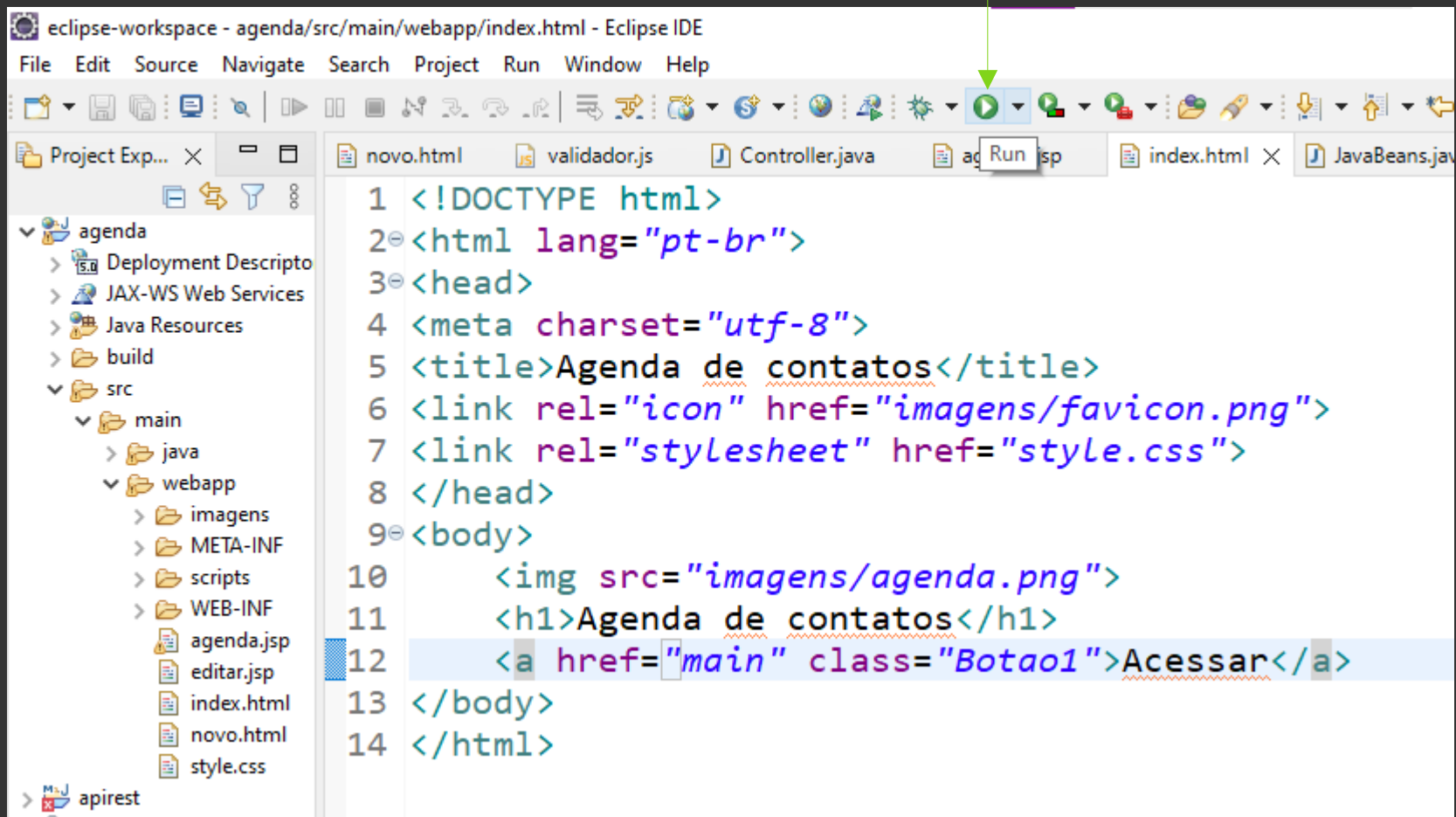
No consoles to display at this time.

A linha toda

```
protected void editarContato(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
// teste de recebimento
System.out.println(request.getParameter("idcon"));
}
```



Salve tudo selecione o index.html e execute



## Run On Server

Select which server to use

How do you want to select the server?

- ☒ Choose an existing server
- ☐ Manually define a new server

Select the server that you want to use:

type filter text

Server	State
▼ localhost	
Tomcat v10.0 Server at localhost	Stopped

Apache Tomcat v10.0 supports J2EE 1.2, 1.3, 1.4, and Java EE 5, 6, 7, 8 and Jakarta EE 9 Web modules.

Columns...

☐ Always use this server when running this project

&lt; Back

Next &gt;

Finish

Cancel

## Add and Remove

Modify the resources that are configured on the server

Move resources to the right to configure them on the server

Available:

Hello

Hello Tomcat

HelloJSP

Add &gt;

&lt; Remove

Add All &gt;&gt;

&lt;&lt; Remove All

Configured:

agenda



&lt; Back

Next &gt;

Finish

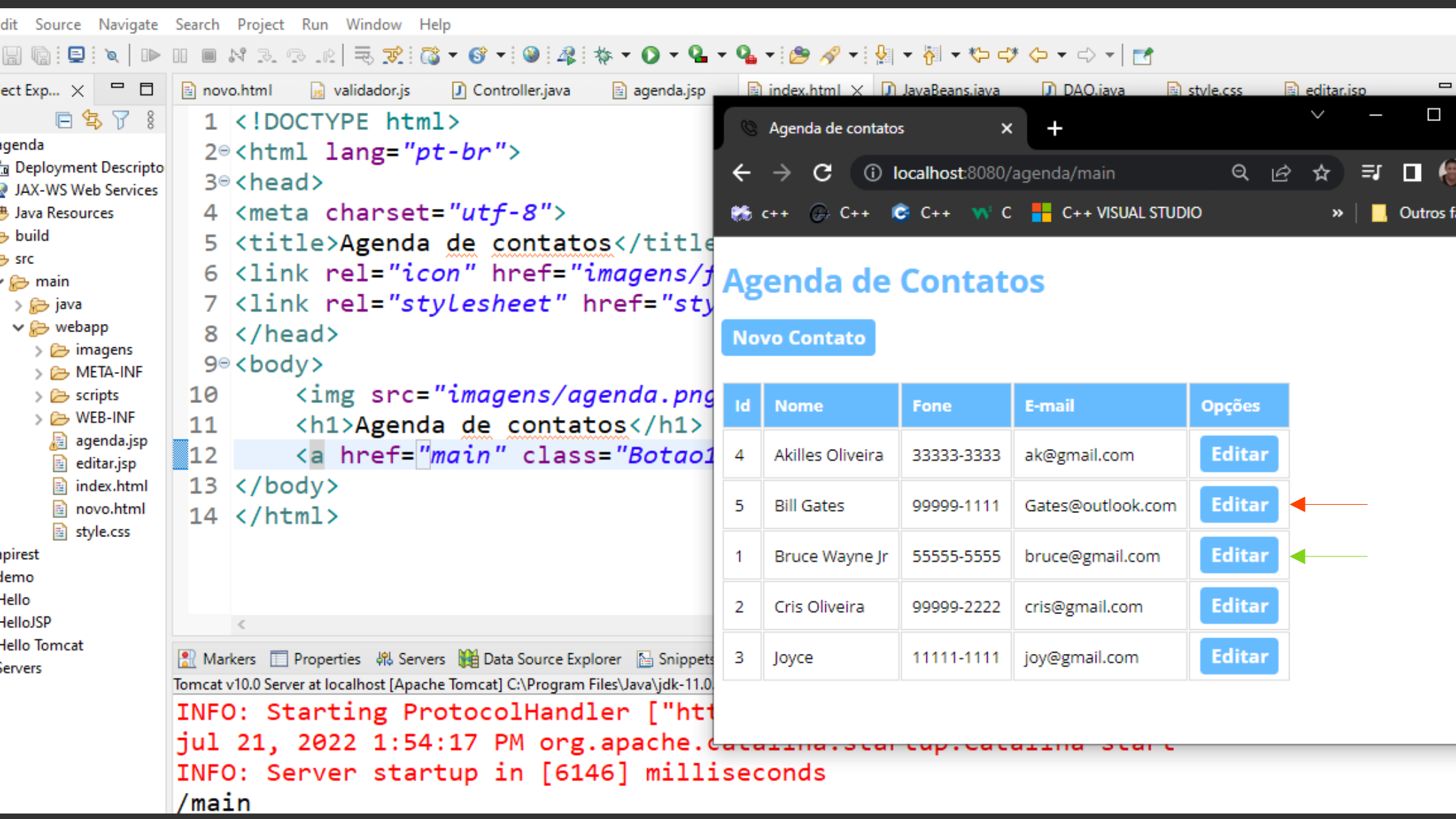
Cancel



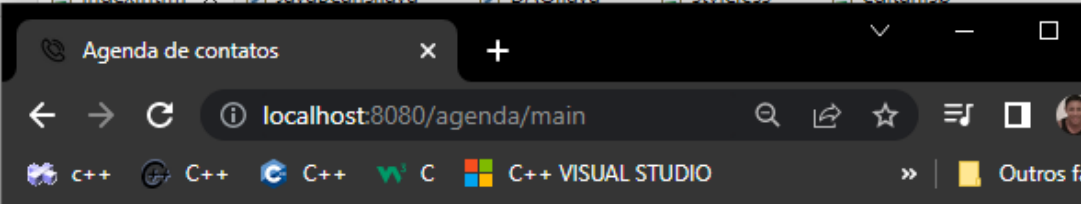
## Agenda de contatos

Acessar





```
1 <!DOCTYPE html>
2 <html lang="pt-br">
3 <head>
4 <meta charset="utf-8">
5 <title>Agenda de contatos</title>
6 <link rel="icon" href="imagens/f
7 <link rel="stylesheet" href="sty
8 </head>
9 <body>
10 
14 </html>
```



## Agenda de Contatos

Novo Contato

Id	Nome	Fone	E-mail	Opções
4	Akilles Oliveira	33333-3333	ak@gmail.com	Editar
5	Bill Gates	99999-1111	Gates@outlook.com	Editar
1	Bruce Wayne Jr	55555-5555	bruce@gmail.com	Editar
2	Cris Oliveira	99999-2222	cris@gmail.com	Editar
3	Joyce	11111-1111	joy@gmail.com	Editar

```
INFO: Starting ProtocolHandler ["http
jul 21, 2022 1:54:17 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [6146] milliseconds
/main
```



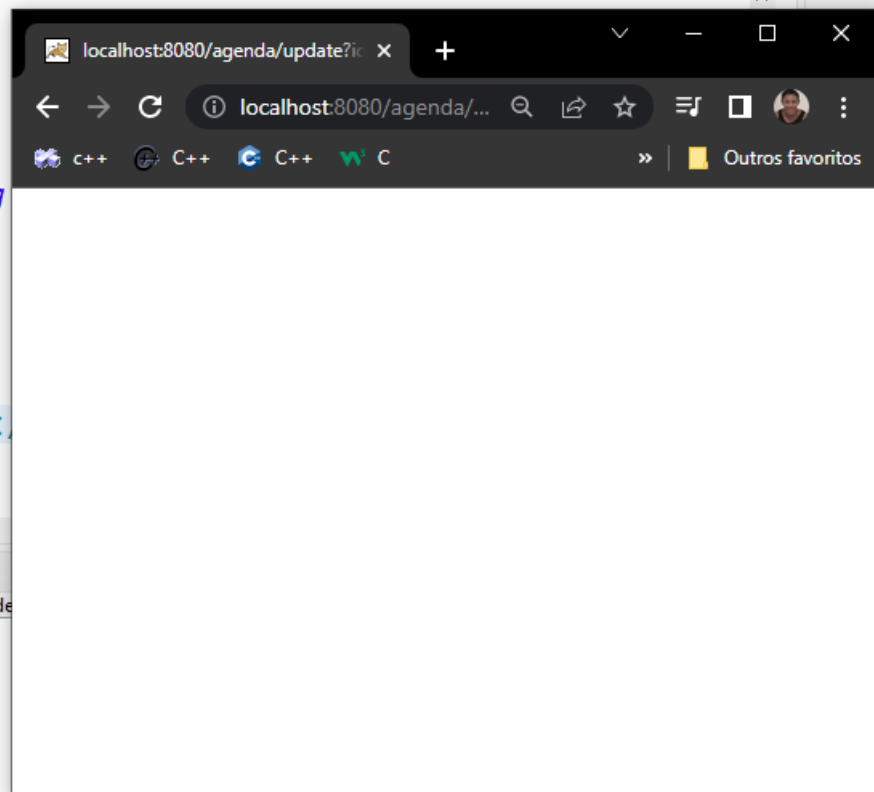
Project Explorer

- agenda
  - Deployment Descriptors
  - JAX-WS Web Services
  - Java Resources
  - build
  - src
    - main
      - java
      - webapp
        - imagens
        - META-INF
        - scripts
        - WEB-INF
        - agenda.jsp
        - editar.jsp
        - index.html
        - novo.html
        - style.css
  - apiREST
  - demo
  - Hello
  - HelloJSP
  - Hello Tomcat
  - Servers

```
1 <!DOCTYPE html>
2 <html lang="pt-br">
3 <head>
4 <meta charset="utf-8">
5 <title>Agenda de contatos</title>
6 <link rel="icon" href="imagens/favicon.png">
7 <link rel="stylesheet" href="style.css">
8 </head>
9 <body>
10 
11 <h1>Agenda de contatos</h1>
12 <a href="main" class="Botao1">Acessar</a>
13 </body>
14 </html>
```

Tomcat v10.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-11.0.11\bin\javaw.exe (21 de

```
/main
/select
/update
5
Carlos Gomes
99999-2222
Gomes@outlook.com
```



eclipse-workspace - agenda/src/main/java/controller/Controller.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

agenda

Deployment Descriptors

JAX-WS Web Services

Java Resources

build

src

main

java

webapp

imagens

META-INF

scripts

WEB-INF

agenda.jsp

editar.jsp

index.html

novo.html

style.css

apirest

demo

Hello

HelloJSP

Hello Tomcat

Servers

```
79 request.setAttribute("nome", contato.getNome());
80 request.setAttribute("fone", contato.getFone());
81 request.setAttribute("email", contato.getEmail());
82 // Encaminhar ao documento jsp
83 RequestDispatcher rd = request.getRequestDispatcher("editar.jsp");
84 rd.forward(request, response);
85
86 }
87 protected void editarContato(HttpServletRequest request, HttpServletResponse response) {
88     // teste de recebimento
89     System.out.println(request.getParameter("idcon"));
90     System.out.println(request.getParameter("nome"));
91     System.out.println(request.getParameter("fone"));
92     System.out.println(request.getParameter("email"));
93 }
94 }
95
```

Markers Properties Servers Data Source Explorer Snippets Console

Tomcat v10.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-11.0.11\bin\javaw.exe (21 de jul. de 2022 14:07:37) [pid: 8864]

/main

/select

/update

Apague o teste de recebimento

The screenshot shows the Eclipse IDE interface. The main editor displays the `Controller.java` file with the following code:

```
79 request.setAttribute("nome", contato.getNome());
80 request.setAttribute("fone", contato.getFone());
81 request.setAttribute("email", contato.getEmail());
82 // Encaminhar ao documento jsp
83 RequestDispatcher rd = request.getRequestDispatcher("editar.jsp");
84 rd.forward(request, response);
85
86 }
87 protected void editarContato(HttpServletRequest request, HttpServletResponse response) {
88     // setar as variaveis JavaBeans
89     contato.setIdcon(request.getParameter("idcon"));
90     contato.setNome(request.getParameter("nome"));
91     contato.setFone(request.getParameter("fone"));
92     contato.setEmail(request.getParameter("email"));
93 }
94 }
95
```

A green arrow points to the `request` parameter in line 89. Another green arrow points to the `request` parameter in line 89.

The left sidebar shows the Project Explorer with the following structure:

- agenda
  - Deployment Descriptors
  - JAX-WS Web Services
  - Java Resources
  - build
  - src
    - main
      - java
      - webapp
        - imagens
        - META-INF
        - scripts
        - WEB-INF
          - agenda.jsp
          - editar.jsp
          - index.html
          - novo.html
          - style.css

The bottom of the IDE shows the Tomcat v10.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-11.0.11\bin\javaw.exe (21 de jul. de 2022 14:07:37) [pid: 8864]. The console output is:

```
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for
jul 21, 2022 2:15:00 PM org.apache.catalina.core.StandardContext reload
INFO: Reloading Context with name [/agenda] is completed
```

eclipse-workspace - agenda/src/main/java/model/DAO.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- agenda
  - Deployment Descriptors
  - JAX-WS Web Services
  - Java Resources
  - build
  - src
    - main
      - java
      - webapp
        - imagens
        - META-INF
        - scripts
        - WEB-INF
        - agenda.jsp
        - editar.jsp
        - index.html
        - novo.html
        - style.css

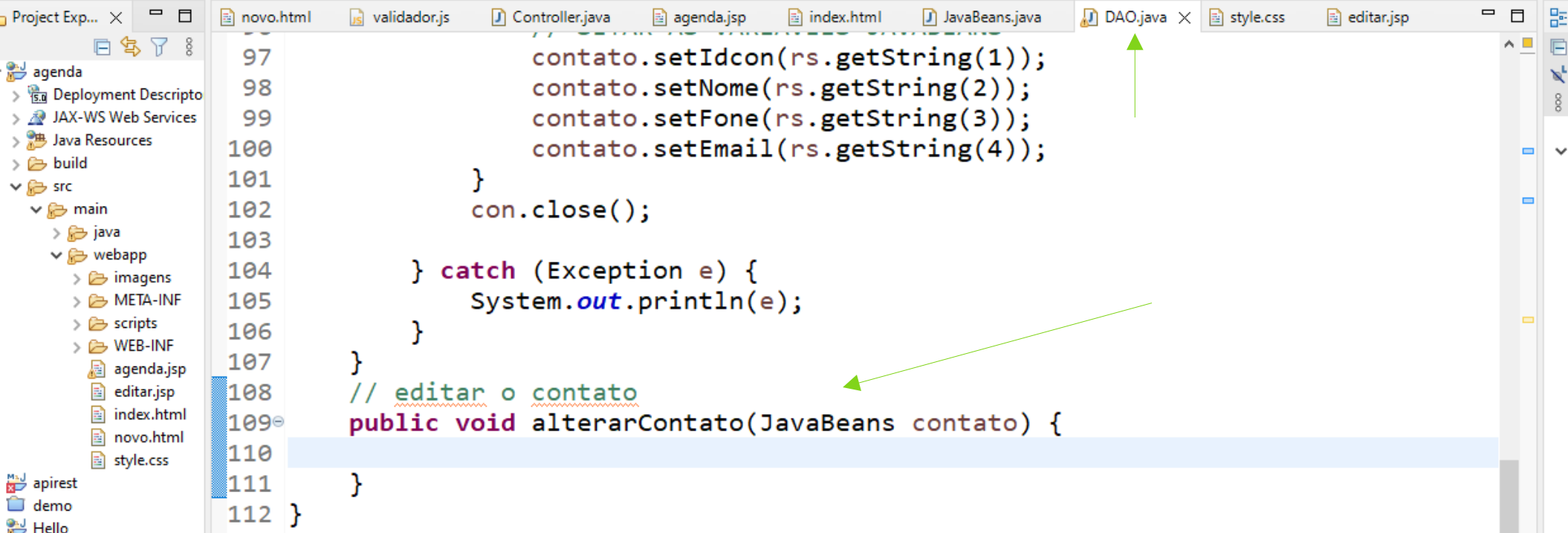
API Explorer

- apirest
- demo
- Hello

Editor

nov.html | validador.js | Controller.java | agenda.jsp | index.html | JavaBeans.java | DAO.java | style.css | editar.jsp

```
197         contato.setIdcon(rs.getString(1));
198         contato.setNome(rs.getString(2));
199         contato.setFone(rs.getString(3));
200         contato.setEmail(rs.getString(4));
201     }
202     con.close();
203
204 } catch (Exception e) {
205     System.out.println(e);
206 }
207 }
208 // editar o contato
209 public void alterarContato(JavaBeans contato) {
210
211 }
212 }
```



```
79 request.setAttribute("nome", contato.getNome());
80 request.setAttribute("fone", contato.getFone());
81 request.setAttribute("email", contato.getEmail());
82 // Encaminhar ao documento jsp
83 RequestDispatcher rd = request.getRequestDispatcher("editar.jsp");
84 rd.forward(request, response);
85
86 }
87 protected void editarContato(HttpServletRequest request, HttpServletResponse response) {
88     // setar as variaveis JavaBeans
89     contato.setIdcon(request.getParameter("idcon"));
90     contato.setNome(request.getParameter("nome"));
91     contato.setFone(request.getParameter("fone"));
92     contato.setEmail(request.getParameter("email"));
93     // executar o metodo alterarContato
94     dao.alterarContato(contato);
95 }
```

Tomcat v10.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-11.0.11\bin\javaw.exe (21 de jul. de 2022 14:07:37) [pid: 8864]

```
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging
jul 21, 2022 2:21:34 PM org.apache.catalina.core.StandardContext reload
INFO: Reloading Context with name [/agenda] is completed
```

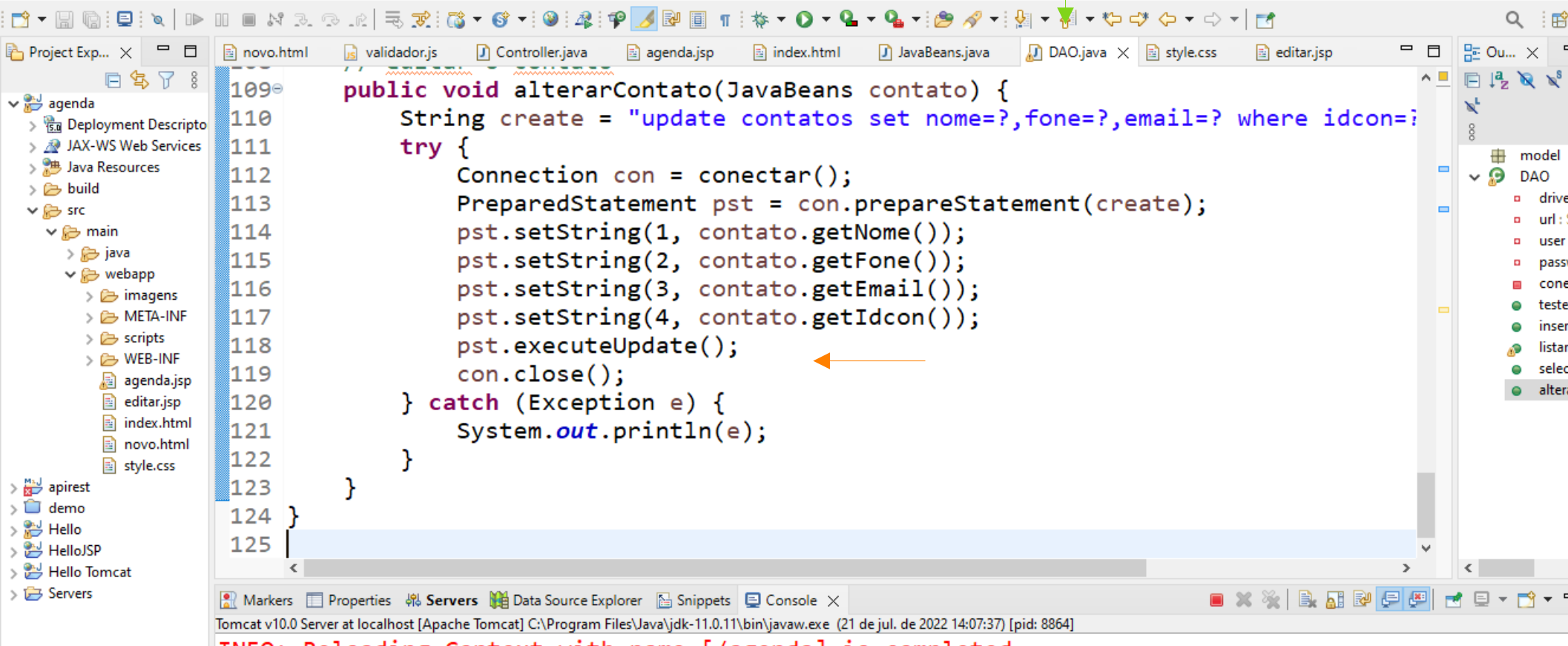


```
107 }
108 // editar o contato
109 public void alterarContato(JavaBeans contato) {
110     String create = "update contatos set nome=?,fone=?,email=? where idcon=?";
111     try {
112         Connection con = conectar();
113         PreparedStatement pst = con.prepareStatement(create);
114         pst.setString(1, contato.getNome());
115         pst.setString(2, contato.getFone());
116         pst.setString(3, contato.getEmail());
117         pst.setString(4, contato.getIdcon());
118     } catch (Exception e) {
119         System.out.println(e);
120     }
121 }
122 }
123 }
```

Markers Properties Servers Data Source Explorer Snippets Console X  
Tomcat v10.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-11.0.11\bin\javaw.exe (21 de jul. de 2022 14:07:37) [pid: 8864]

INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger if you suspect this may be a problem.  
jul 21, 2022 2:31:18 PM org.apache.catalina.core.StandardContext reload  
INFO: Reloading Context with name [/agenda] is completed





The screenshot shows the Eclipse IDE interface. The main editor displays the `DAO.java` file. The code is as follows:

```
109 public void alterarContato(JavaBeans contato) {  
110     String create = "update contatos set nome=?,fone=?,email=? where idcon=?";  
111     try {  
112         Connection con = conectar();  
113         PreparedStatement pst = con.prepareStatement(create);  
114         pst.setString(1, contato.getNome());  
115         pst.setString(2, contato.getFone());  
116         pst.setString(3, contato.getEmail());  
117         pst.setString(4, contato.getIdcon());  
118         pst.executeUpdate();  
119         con.close();  
120     } catch (Exception e) {  
121         System.out.println(e);  
122     }  
123 }  
124 }  
125
```

Annotations in the code include:

- A green arrow pointing to the `PreparedStatement` class in the `PreparedStatement` declaration on line 113.
- An orange arrow pointing to the `con.close();` statement on line 119.

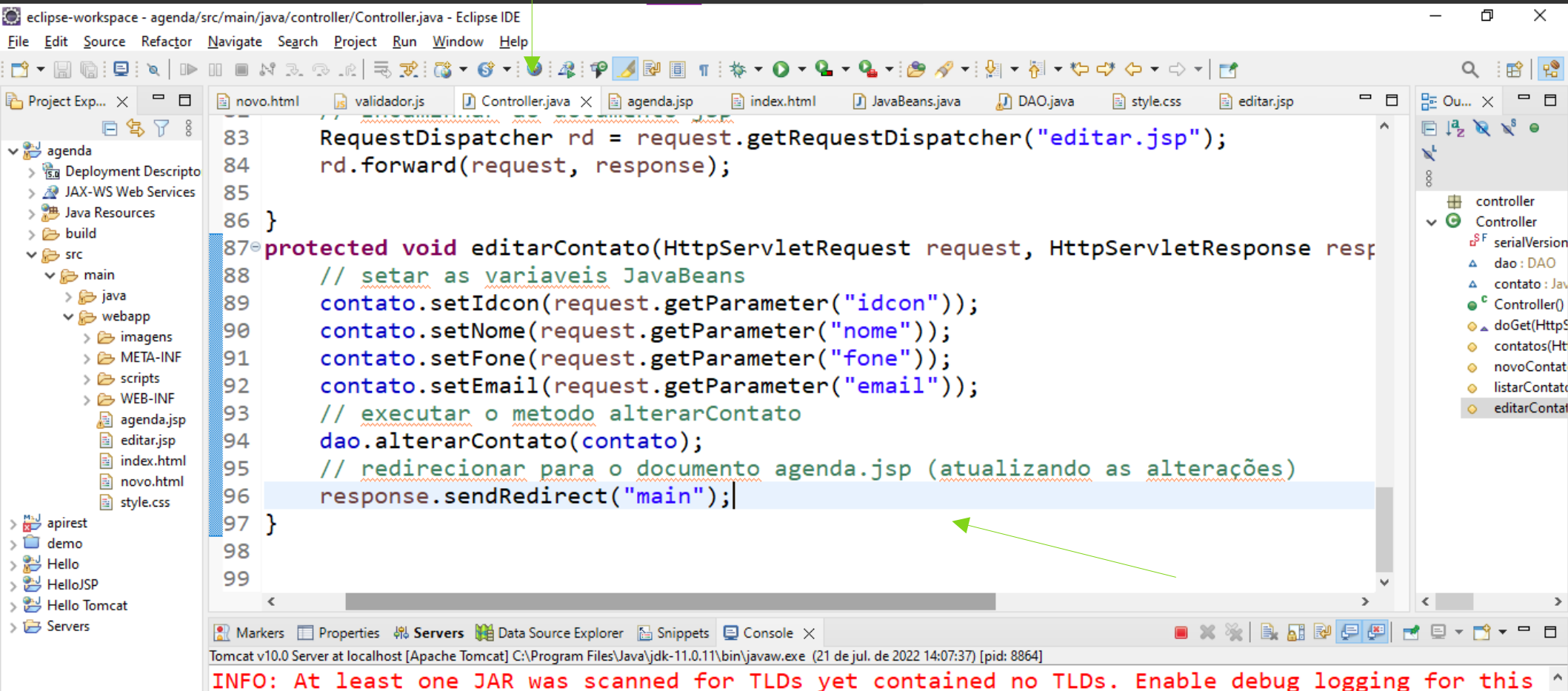
The left sidebar shows the Project Explorer with the following structure:

- agenda
  - Deployment Descripto
  - JAX-WS Web Services
  - Java Resources
  - build
  - src
    - main
      - java
      - webapp
        - imagens
        - META-INF
        - scripts
        - WEB-INF
          - agenda.jsp
          - editar.jsp
          - index.html
          - novo.html
          - style.css

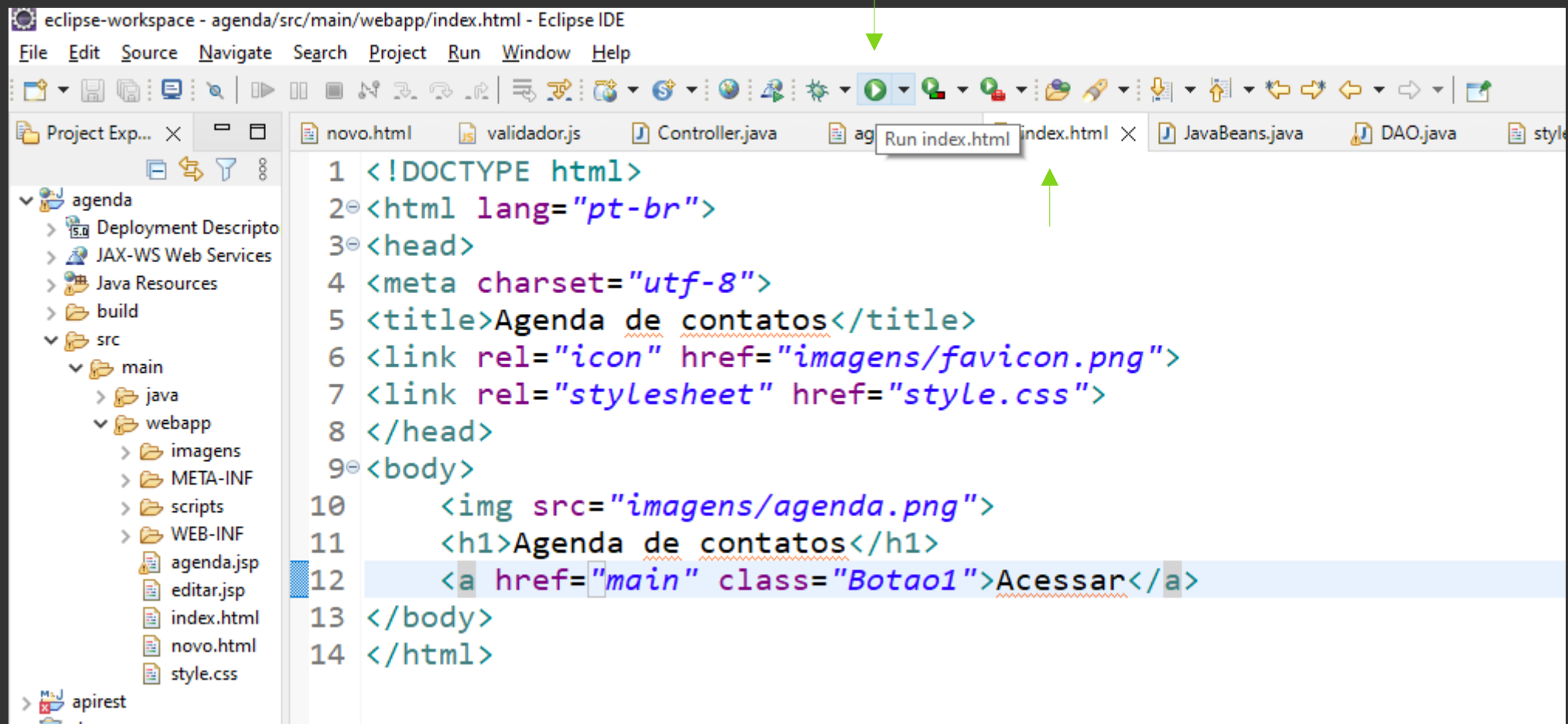
The right sidebar shows the Outline view with the following structure:

- model
  - DAO
    - drive
    - url : S
    - user :
    - passw
    - cone
    - teste
    - inseri
    - listar
    - selec
    - altera

The bottom status bar shows: Tomcat v10.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-11.0.11\bin\javaw.exe (21 de jul. de 2022 14:07:37) [pid: 8864]



Salve tudo escolha o index.html e execute



## Run On Server

Select which server to use

How do you want to select the server?

- ☒ Choose an existing server
- ☐ Manually define a new server

Select the server that you want to use:

type filter text

Server	State
localhost	
Tomcat v10.0 Server at localhost	Started

Apache Tomcat v10.0 supports J2EE 1.2, 1.3, 1.4, and Java EE 5, 6, 7, 8 and Jakarta EE 9 Web modules.

Columns...

☐ Always use this server when running this project

&lt; Back

Next &gt;

Finish

Cancel

## Add and Remove

Modify the resources that are configured on the server

Move resources to the right to configure them on the server

Available:

Hello  
Hello Tomcat  
HelloJSP

Add &gt;

&lt; Remove

Add All &gt;&gt;

&lt;&lt; Remove All

Configured:

agenda

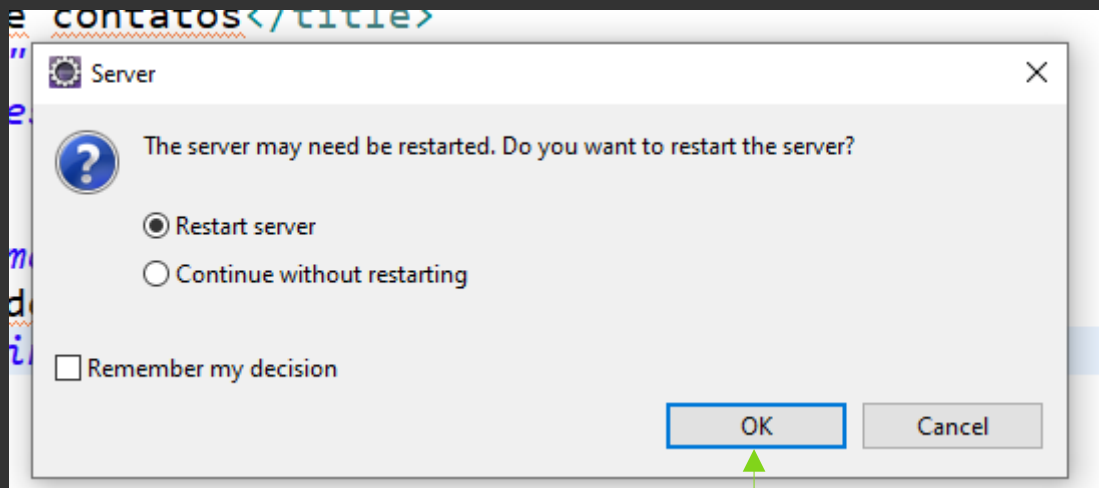


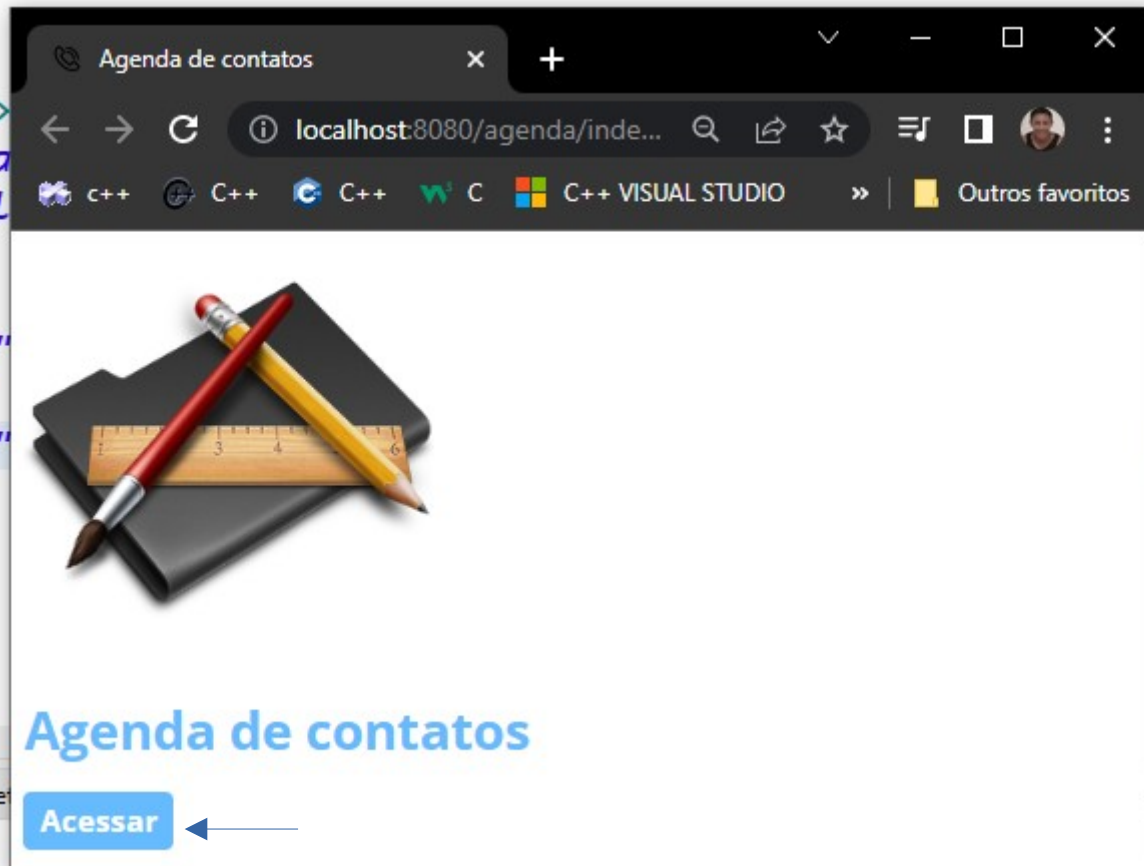
&lt; Back

Next &gt;

Finish

Cancel





Agenda de contatos

localhost:8080/agenda/main

## Agenda de Contatos

**Novo Contato**

Id	Nome	Fone	E-mail	Opções
4	Akilles Oliveira	33333-3333	ak@gmail.com	<a href="#">Editar</a>
5	Bill Gates	99999-1111	Gates@outlook.com	<a href="#">Editar</a>
1	Bruce Wayne Jr	55555-5555	bruce@gmail.com	<a href="#">Editar</a>
2	Cris Oliveira	99999-2222	cris@gmail.com	<a href="#">Editar</a>
3	Joyce	11111-1111	joy@gmail.com	<a href="#">Editar</a>

localhost:8080/agenda/select?idcon=5

Agenda de contatos

localhost:8080/agenda/sele...

c++ C++ C++ C++ C++ VISUAL STUDIO Outros favoritos

## Editar contato

5

Carlos Gomes

99999-3333

Gomes@outlook.com

Salvar



Agenda de contatos

localhost:8080/agenda/main

## Agenda de Contatos

Novo Contato

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4	Akilles Oliveira	33333-3333	ak@gmail.com	Editar
1	Bruce Wayne Jr	55555-5555	bruce@gmail.com	Editar
5	Carlos Gomes	99999-3333	Gomes@outlook.com	Editar
2	Cris Oliveira	99999-2222	cris@gmail.com	Editar
3	Joyce	11111-1111	joy@gmail.com	Editar

