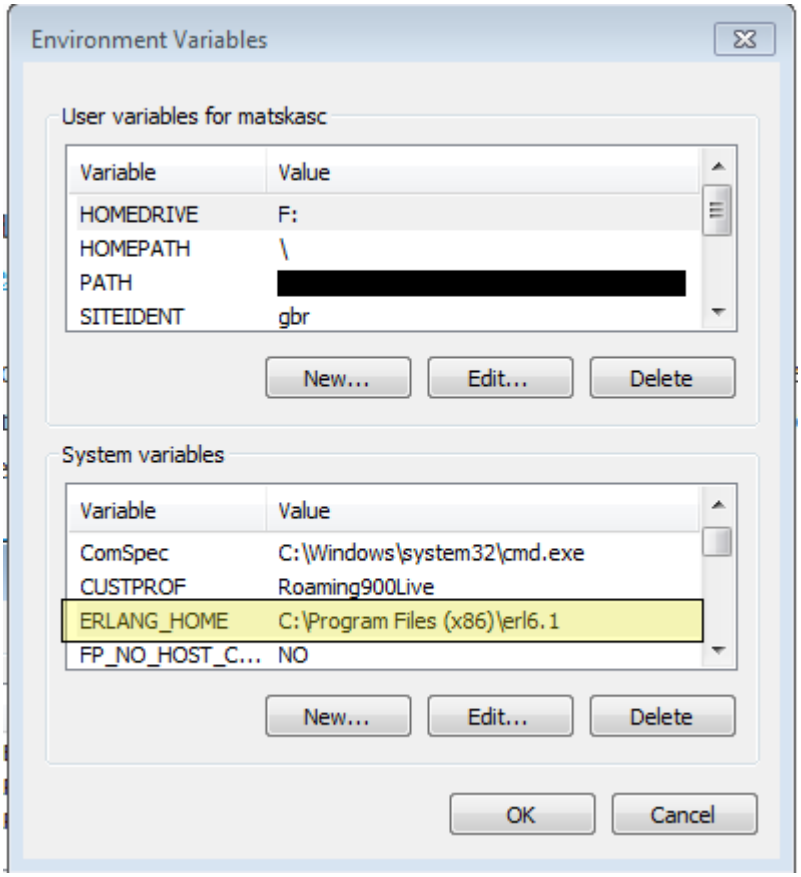
Set up RabbitMQ

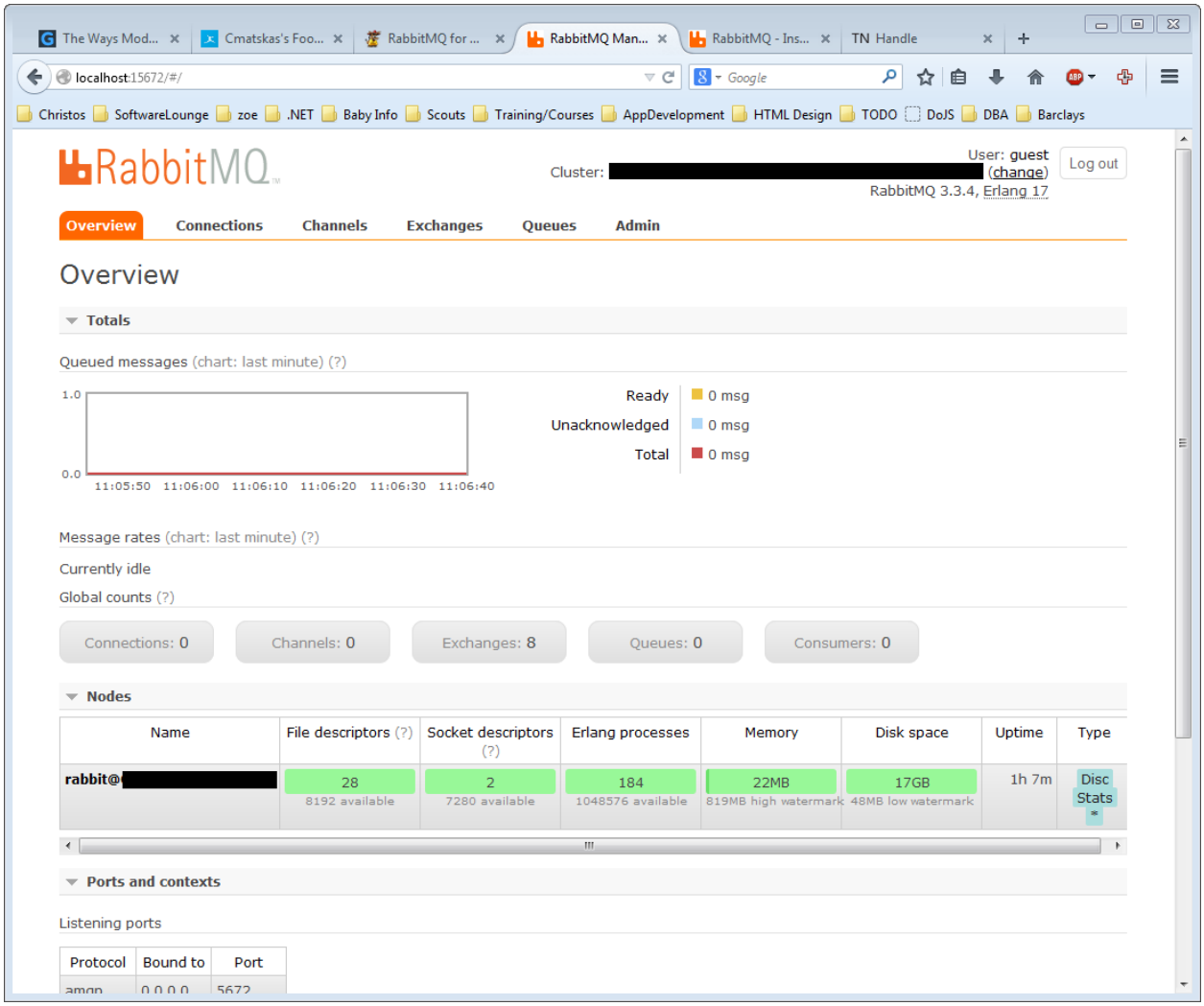
1. Download Erlang https://www.erlang.org/downloads
   Set up **ERLANG_HOME**



2. Download RabbitMQ https://www.rabbitmq.com/install-windows.html

3. RabbitMQ Web management
   1) Open an command line (Run as Administrator)
   2) Navigate to the **sbin** directory of the RabbitMQ Server installation directory. In my case the path is `C:\Program Files (x86)\RabbitMQ Server\rabbitmq_server-3.3.4\sbin`
   3) Run the following command to enable the plugin `rabbitmq-plugins.bat enable rabbitmq_management`

4. To check if everything worked as expected, navigate to http://localhost:15672 . You will be prompted for username and password. The default credentials are:
   Username: **guest**
   Password: **guest**



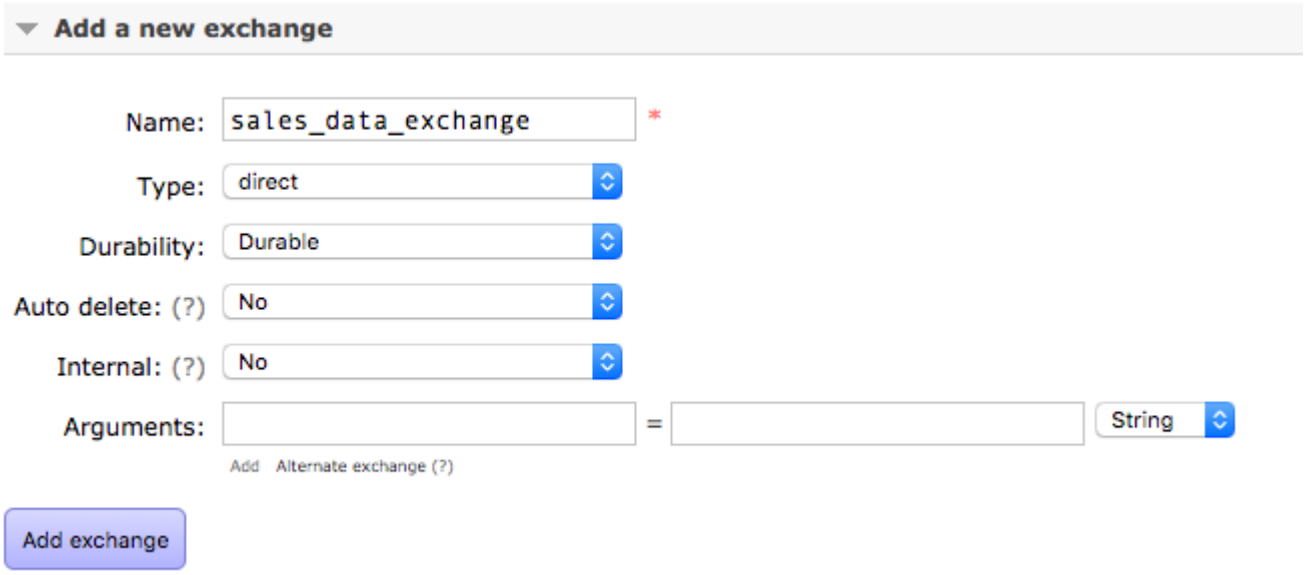
5. Direct Exchange demo

In RabbitMQ server, we need to create a direct exchange and name it as "**sales_data_exchange**". After that we should create two queues and need to bind those queues with direct exchange using two binding keys (**customer.order** and **customer.deliveries**).

queue name	binding key
orders_queue	customer.order
deliveries_queue	customer.deliveries

1. Creating the direct exchange

Click on the **exchange** tab and add your message exchange. once it is added successfully, it will be listed under **exchanges** with given name.

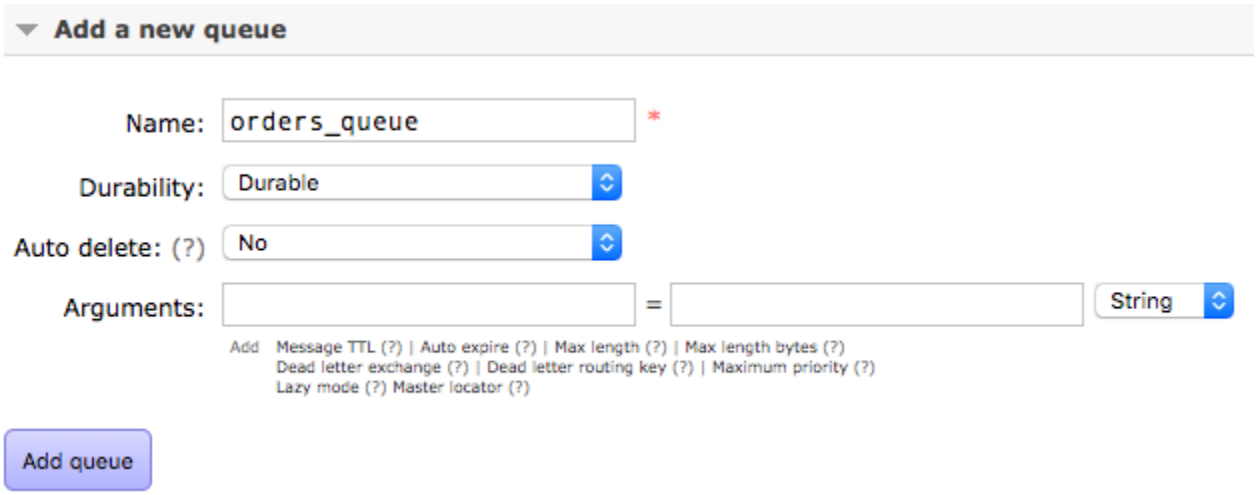


You can notice that the type is **direct**. Therefore this is a direct exchange.

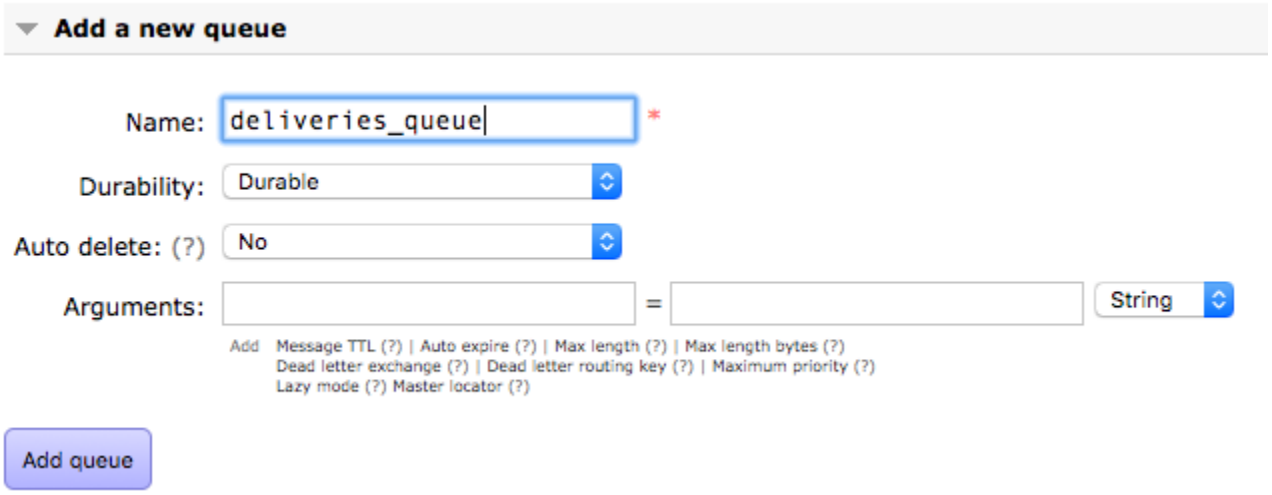
2. Creating two queues (known as **orders_queue** and **deliveries_queue**)

Click on the **Queues** tab and add the queue. once it is added successfully, it will be listed under **All Queues**.

- **adding the orders_queue**



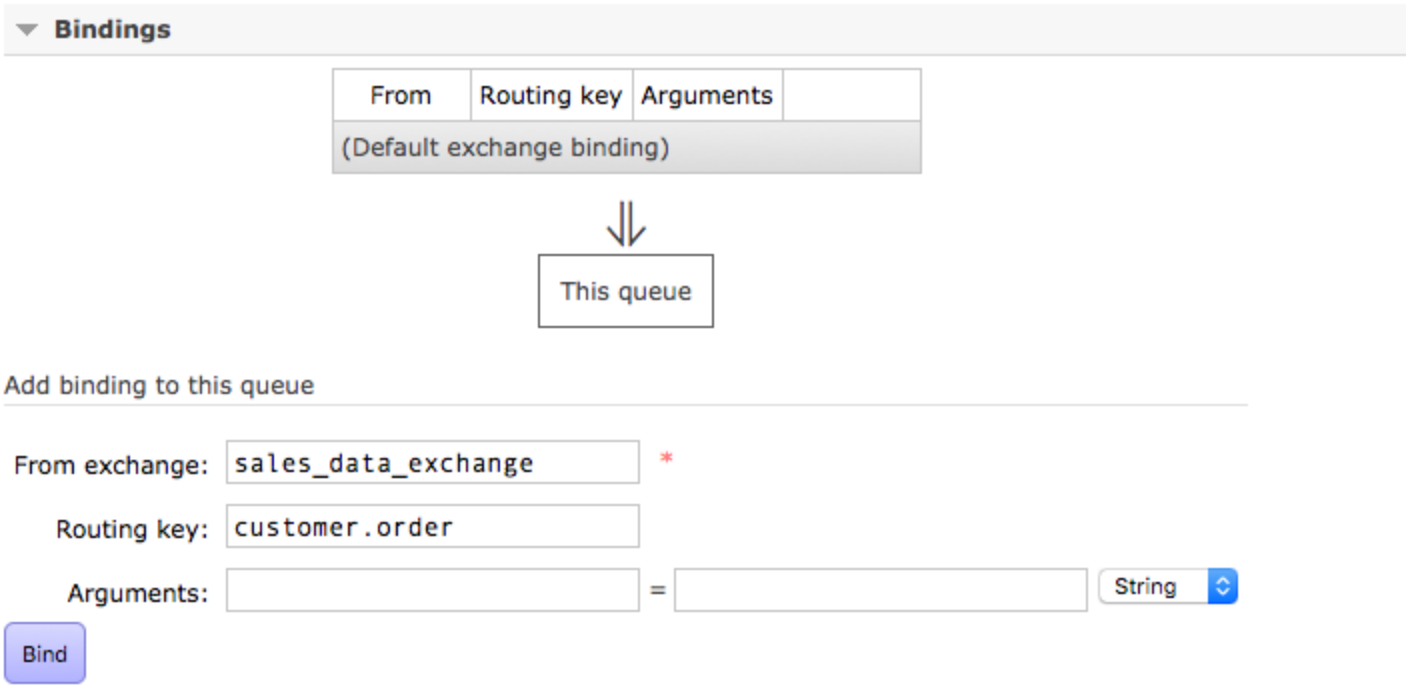
- **adding the deliveries_queue**



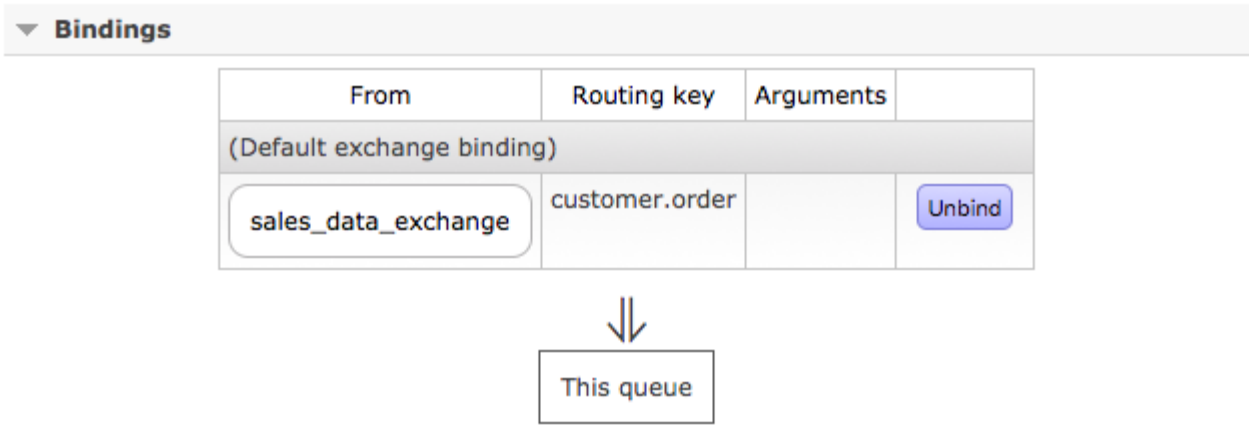
3. Bind the orders_queue for the message exchange (sales_data_exchange) that we have already created.

We will be binding only the **orders_queue** for the **sales_data_exchange**. (As you are already aware, **deliveries_queue** was just created for demonstration purpose)

Click on the **orders_queue** and go to the **Binding** section. Then bind the queue to the message exchange with your desired binding key.



once the queue is successfully bound to the exchange, it will be shown as follows.



Now we have completed the required RabbitMQ server setup for our article. So Lets look at the project structure and source code. There are two separate spring projects available for representing **Producer** and **Consumer** applications.

Reference:
https://cmatskas.com/getting-started-with-rabbitmq-on-windows/
https://springbootdev.com/2017/09/15/spring-boot-and-rabbitmq-direct-exchange-example-messaging-custom-java-objects-and-consumes-with-a-listener/