**Docker:**

1. Download and install [docker](https://www.docker.com/get-started).
2. Clone git repository <https://github.com/nikolasergel/bookcrossing>
3. Locate to folder with Dockerfile
4. Run terminal(powershell)
5. Run commands:
   * docker build -t bookcrossing:v1 ./
   * docker run -p 8080:8080 --name bookcrossing -it bookcrossing:v1

After that docker container will be created and started. These commands should be executed only one time.

1. To start existing container, execute command:
   * docker start –i bookcrossing
2. After starting container, application will be available by <http://localhost:8080>, default user admin/admin

**Linux(ubuntu 20.04):**

1. Connect to remote server(if you aren’t using cloud, you can do everything locally) and run terminal
2. Install mysqlserver8, java8, maven by executing commands:
   * sudo apt update
   * sudo apt install mysql-server-8.0 -y
   * sudo apt install openjdk-8-jdk -y
   * sudo apt install maven
3. After installing necessary software, we have to prepare database. First of all we should start database by executing command:
   * sudo service mysql start

Now we can connect database, create user and db:

* execute: “sudo mysql“ or “mysql -u root -p” with password root
* CREATE DATABASE spring;
* CREATE USER ‘belka’@’localhost’ IDENTIFIED BY ‘belka’;
* GRANT ALL PRIVILEGES ON spring.\* TO ‘belka’@’localhost’;
* FLUSH PRIVILEGES;
* quit;

1. After preparing db we should create directory for uploaded images:
   * cd ~
   * mkdir uploads
   * pwd
2. Clone git repo <https://github.com/nikolasergel/bookcrossing>
3. Go to bookcrossing folder and find folder ‘src’ near to README.md or pom.xml files. If you are found it, all is OK. After that go to src -> main -> resources
4. Edit application.properties file by executing command:
   * sudo nano application.properties

And change upload.path to path to folder we created in step 4. (to get path to current dir use: pwd). After that press: ctrl+s, ctrl+x to save changes

1. Now we need to build project:
   * locate to root folder of bookcrossing folder and find pom.xml file
   * execute command: mvn clean install

After executing command go to target folder and find file spring-web-app-0.0.1-SNAPSHOT.jar (or something similar)

1. To run application execute command:
   * Java -jar spring-web-app-0.0.1-SNAPSHOT.jar
2. Application will be available by link <http://localhost:8080> or <http://ip_of_remote_host:8080>