

FRAPPER

Web programming 2.0

Colin

2DV512

# Timeline Nobel Prizes

2017-01-07

## **Table of Contents :**

1. Introduction .....	p. 3
2. Implementation .....	p. 3
2.1 Technologies .....	p. 4
2.2 Pages .....	p. 5
3. Source .....	p. 7
4. Conclusion .....	p. 7
5. Running project on local application server .....	p. 8

*Note* : I'm sorry about my english, I'm an Erasmus student.

## 1 . Introduction :

The purpose of this report is to describe my project about developing a web dynamic project using java as the server side language along with various other supporting technologies, but specially new technologies.

My web application can be described as a timeline who talk about famous nobel prizes and a place where you can discover new information about nobel prize, some quotes and also talk with other visitor about those nobel prize.

I choose nobel prize as a topic because I wanted to learn more about them.

## 2. Implementation

After finishing the requirement specification I had a very clear model on what I were supposed to do and I immediately got to work. I had no really experience in java, but quite a lot on html/css/javascript and maybe that's why I use quite a lot javascript/jquery/css to have some transition.

It takes me a lot to understand how work a server, so I decided to choose Wildfly as a server, and a jsp file, I read a lot about how making working Wildfly. So I started by wirting all the « front end » development first and then add a server so I can use database and websocket to create my chat/comment section.

When I started, I create the index page, then all the html page about Nobel Prize, add the design using css and some SASS, after this I started to use Wildfly as a server and then

create the register/login/logout, and configure the database.

So after doing all of this, I did everything that I wrote in the requirement specification, the only thing I couldn't do it is the comment section, instead I found another solution (clearly not the best one), that I will explain in the technologie section.

## 2.1 Technologies :

So, as I said for the design(front end), I used css3, jquery librairies, and a lot of bootstrap, I'm really happy to had discover bootstrap, it's a really good framework where you can have some nice design with. With bootstrap I create the menu, a caroussel (where I post some images), by the way the quality of the images are really bad and I apologise for that, the thing is I needed to resize them with photo philter. I also add a footer because I liked it but it's not really useful in this project. For sliding the content I used jquery and javascript for the register/login form. About the icon, I took the google icon and some bootstrap icon. Now let's talk about the server java side, so to make the connection between the login/register form and the database I implement a java servlet, and I used the mysql database, I know it's different from what I said in the requirement (I said i will use sqlite as a database), but then I realised that sqlite only worked on firefox, not on google chrome, plus it's more adapted for the small database. So I started using mysql database, I must configured the server to make it work with the mysql database. I'm a bit disapointed I was thinking to make a comment section with this database but I ran out of time (it's not an excuse), so I find another solution, the websocket.

So I choose to implement a WebSocket because it's a modern technologie used a lot for make a real time chat, so I did a chat application but I used something called local storage in

javascript to store the message so it can work also as a comment section, you can see it in my video presentation (see in the conclusion). So as I said I used java server end point to make this web socket.

I also choose to not create a special page for the login and register form because it's not so modern, in every page from today, the login form is directly integrate to the welcome page, so I add some button on where you clicking on it, a form appear.

## 2.2 Pages :

index.jsp :

This pages is the welcome page, when you scroll down you can see the vertical timeline with the nobel prize who appear with a transition.

Html pages :

There is one page for every winner nobel prize, I made 10 nobel prize so 10 html pages using almost only bootstrap for the design.

Js pages :

main.js : this is the javascript code using to slide the content in the index.jsp page.

page.js : This one is used to making worked the caroussel (image) in the html pages.

app.js : This one is used to create the window chat, it's a huge file and took me so long to did it, the thing is I also used templates to clone them to the content when I cliked on the chat icon, you can drag the window, change the channel, the username. You can open multiple window, I'm sorry about the design of the window it's not that beautiful.

### Css pages :

style.css : This is the design for the index.jsp

form.css : this is the design for the register/login form, it's not that beautiful

style\_page.css : the design for the html pages.

style\_other.css : this is also a design for the html pages, specially for the window created when using the chat/comment

ChatStyle.css : This is the design of the chat, I tried to make it like when you get the message from an apple phone (I think it's like this)

### Java pages :

register.java: A java servlet page using to register the user into the database so he can connect himself to the website.

login.java : A java servlet page using to get connect to the database, if he got

register before, then he is already into the database, then I query the database with the username and password he enter.

Logout.java : invalidate the session where he was connected, display a message about the deconnexion.

WebSocket.java : The server end point used to get the session and open it when connected, display the message to other session, the local storage is used in a app.js to save the message so people can discut between them without be connected at the same time.

Photo philter : Used for resize the images.

### 3. Source :

For the content of the html file, I almost only use wikipedia ressource, and for the image, google images, I also used the website stackoverflow for finding something about Wildfly.

### 4. Conclusion

To conclude, this project was very productive for me, it's always interesting to learn some new thing, new technologies.

The video of presentation : <https://youtu.be/USdbMk7ScvU>

The video of how compile/run the project : [https://youtu.be/8x\\_1GHmGhb4](https://youtu.be/8x_1GHmGhb4)

## 5. Running project on local application server.

I made a video about this : [https://youtu.be/8x\\_1GHmGhb4](https://youtu.be/8x_1GHmGhb4)

If you don't want look at it here is the instruction ;

Eclipse EE is required ;

1. Go to File -> Open projects from file system.
2. In the zip archive I sent, there is a folder named Project\_Timeline, open this file
3. You will need to have Jboss tools install on eclipse, go to Help -> Eclipse MarketPlace to find the Jboss tools.
4. Now you need to configure the server, go to window->Show view->Other->Search view->server->Configure new server
5. Then a new window is open click on browse and in the zip archive there is a folder named Wildfly 10.0, select it and click finish.
6. Click on the green arrow to start the server.
7. Go to your browser and then tape localhost:8080/Project\_Timeline/index.jsp