BED

Exam Project 1

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This was a very interesting project and I liked it a lot even if I had to do two thing I do not like to do, Jira and this report :) . I think it covered all the important things to be a Back-end developer. Some things I have done them my way and not how we have learned this last year. I hope you are satisfied with the choices I made.

I started the project with planning using Jira creating the 4 Epic, the tasks for each Epic and then I put them on specific sprints, 3 in total. The pictures below show the road map/timeline.
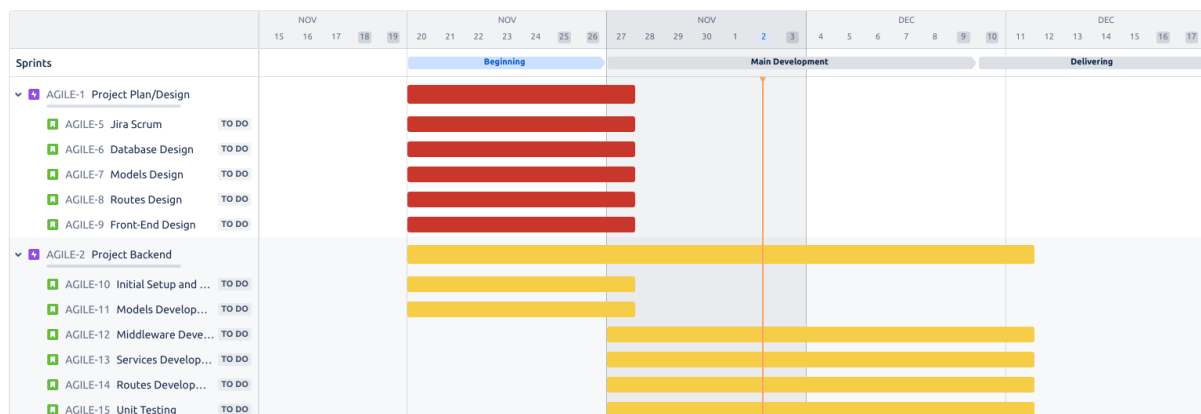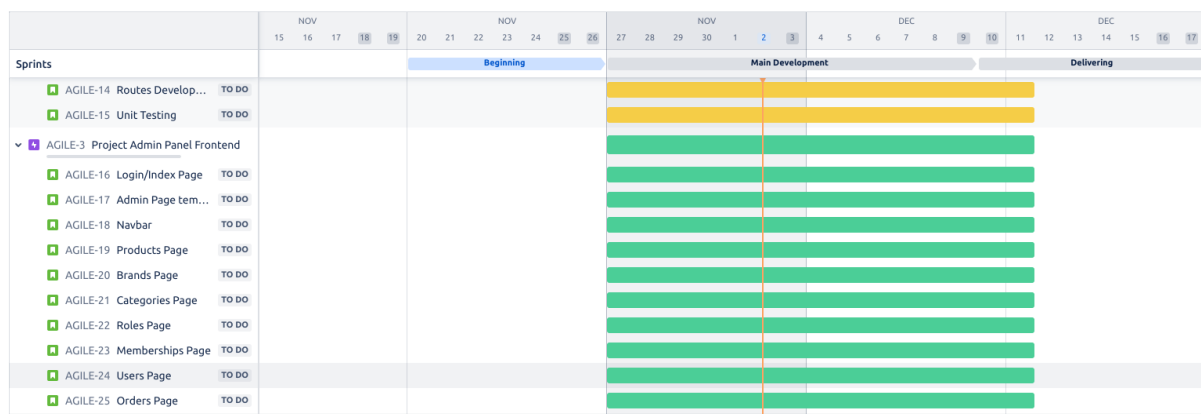

Fig.1

Fig. 2

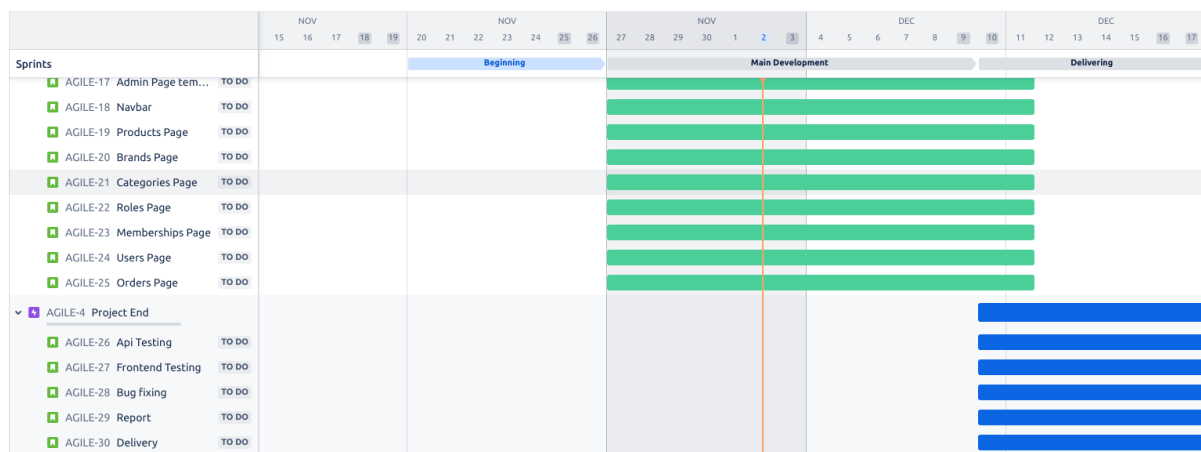| Sprints		NOV					NOV					NOV					DEC					DEC				
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Fig. 3

The next thing was the database planning, to find out the tables are needed and the relationship between them. At the screenshot below(Fig. 4) you can see the tables and their relationships. Next I had to find out the models and the routes I had to use. Last step of the design/plan Epic was to find out the style the Admin Panel would have, and many things in the design came from the example video for the admin panel.

Then one more thing I do not like is the initial setup, configuration and package installation of a new project. And that is because I do not do it so often and I cannot remember everything and I have to read the documentation. But it is very important. After that the real fun started, the real development that I really enjoyed. Had to transfer all the designs of models, services and routes to code. Tested with Postman the API and then started the Front-end using Bootstrap for styling and jQuery to manipulate the HTML pages and add the data that were fetched from the API. I added a notification for every interaction with the database. For the authentication and authorization, I chose to use HTTP only cookie that is not accessible from JavaScript in the web browser, and the web browser sends it back to the server. On this cookie i stored the token that includes user data. This way it is easiest and faster to check the API. This kind of cookie even in cross site scripting(XSS) the web browser will not show the cookie.

For testing I use jest and supertest. Here I used the headers to send the authorization to the server because the HTTP only cookie is not valid with testing. Also there server checks where is the request coming from, web browser or API, and sends a JSON object or normal web page on error.

In conclusion, as I said at the opening of this report, it was a interesting and full back-end project. I cannot say that I faced difficulties, and If during the first year one did all the tasks and practiced, should not face any difficulties, maybe on the tables' design. I have done a lot of things my way different from how we learned, not because I didn't like your way, but I could not remember your way, and during the development fever I try to find solutions and not to read the documentation and the examples we have done, because it would have taken me outside my rhythm. Thanks for the first year!
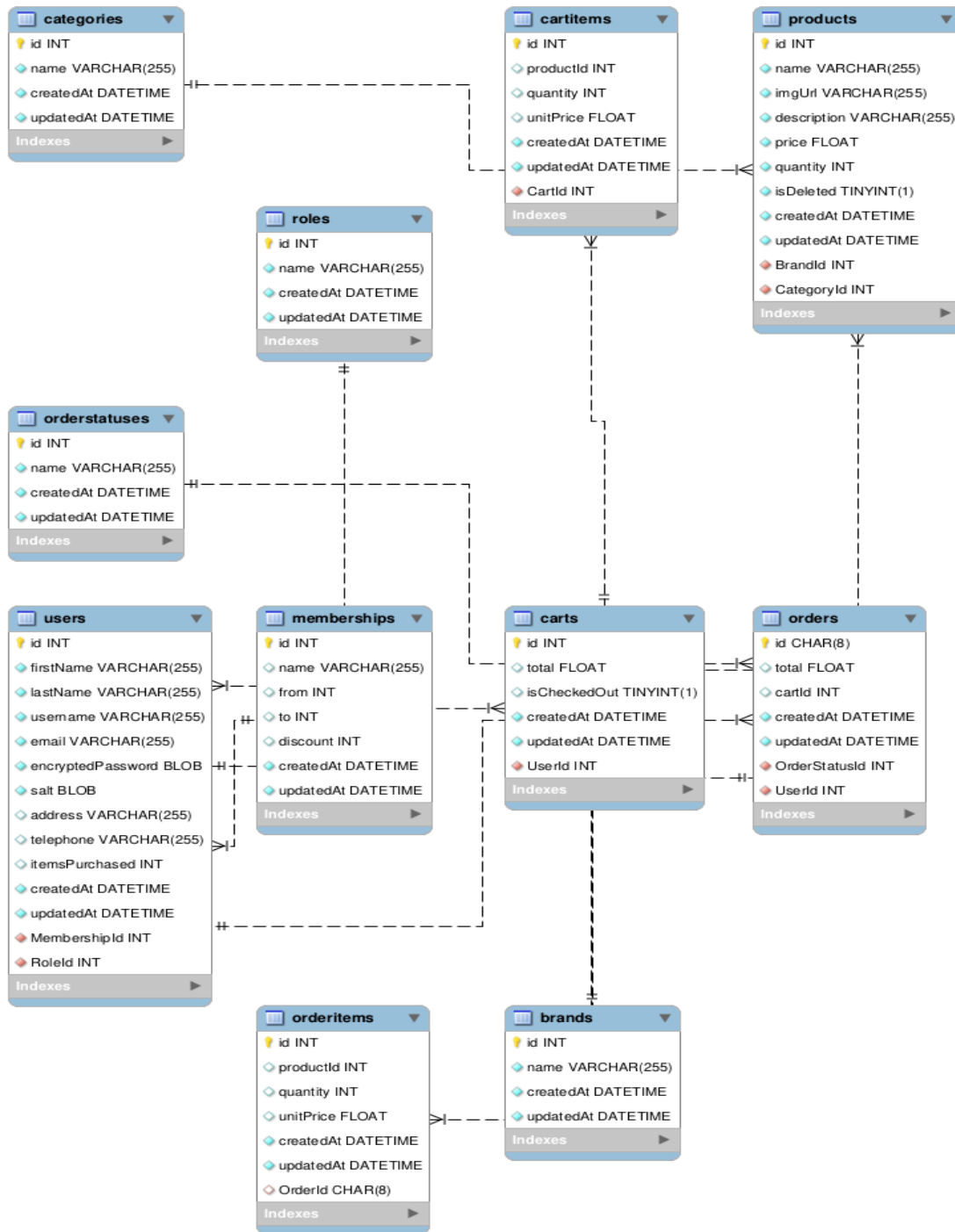
Fig. 4