

# Online Marketplace Net



The Online Marketplace Net is a place where you can catch bargains from your favourite store online!

Or you can sell your own products in your very own store!



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## **Project Overview**

The App will be with have these main features:

Users with Seller accounts, Shop Management, Product Management, Product search by name and category, Shopping cart, Stripe payments, Creating orders, Viewing orders, Listing orders by shops, Auctions in a real-time bidding with socket.IO, viewing auctions.

A complete marketplace online!



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The user story:

The ability to buy and sell in an online marketplace setting has become a core requirement for many web platforms and businesses.

The motivation:

I wanted to create something useful, modern and in everyday life online, the ability to buy or sell anything you wanted and that I could use.

Furthermore to this, I wanted to challenge myself and put myself in a complicated position with a short deadline and complicated tasks and to be under pressure the whole time.

This allowed me to understand my strengths & my weakness, my determination and my capacity to keep self-motivated and utter will to continue and finalize the project against all odds.



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## Technologies:

Using the MERN. MongoDB, Express, React & Node,

For the app, I used new technologies/dependencies as well as some packages. Some of these are *jsonwebtoken, formidable, helmet, query-string, lodash, cookie-parser* and others.

For some of these, I spent lot of reading and watching you tube tutorials on how to use them and deploy these.  
(For a complete list go to ANNEX A)



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## Challenges:

I encountered 3 major obstacles in the development of the app;

The first one was the amount of work to be completed to have the basic layout and authentication working. I lost 5 days to the authentication, but to be fair in timewise, I started the project 1 week before and was struggling already with the JWT/OAUTH. Got it to work.

The second big struggle came in the form of using React components, as these became complicated and then had to connect the front-end to the back-end. And with 44 files front-end, it become close to the end of my sanity. These numbers increased when included Auction feature and so did my insanity

The 3<sup>rd</sup> and biggest issue I encountered was to enable Stripe, a form of payment system and after getting it to work partially, I had to completely park it and hard-code one of the parts of the app.



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## Lessons Learned

Planning saved me many headaches, but also caused many others. As initially my plan was much smaller and simpler than the result, which in turn gave me some well-deserved headaches.

Also, I learned that in order to succeed is to know one's limitations and I am sure that if I did not try, I would not know what I really knew and what I had to learn to overcome the challenges I faced.

The incalculable value of using the Kanban, written notes, documentation & drawings of what I wanted helped me in the long run to identify the things, that would require more work and had to be dropped in a To-Do features.

I also realized, that I can keep going no matter what, I kept on going and enjoyed every minute of it.



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## Success Story

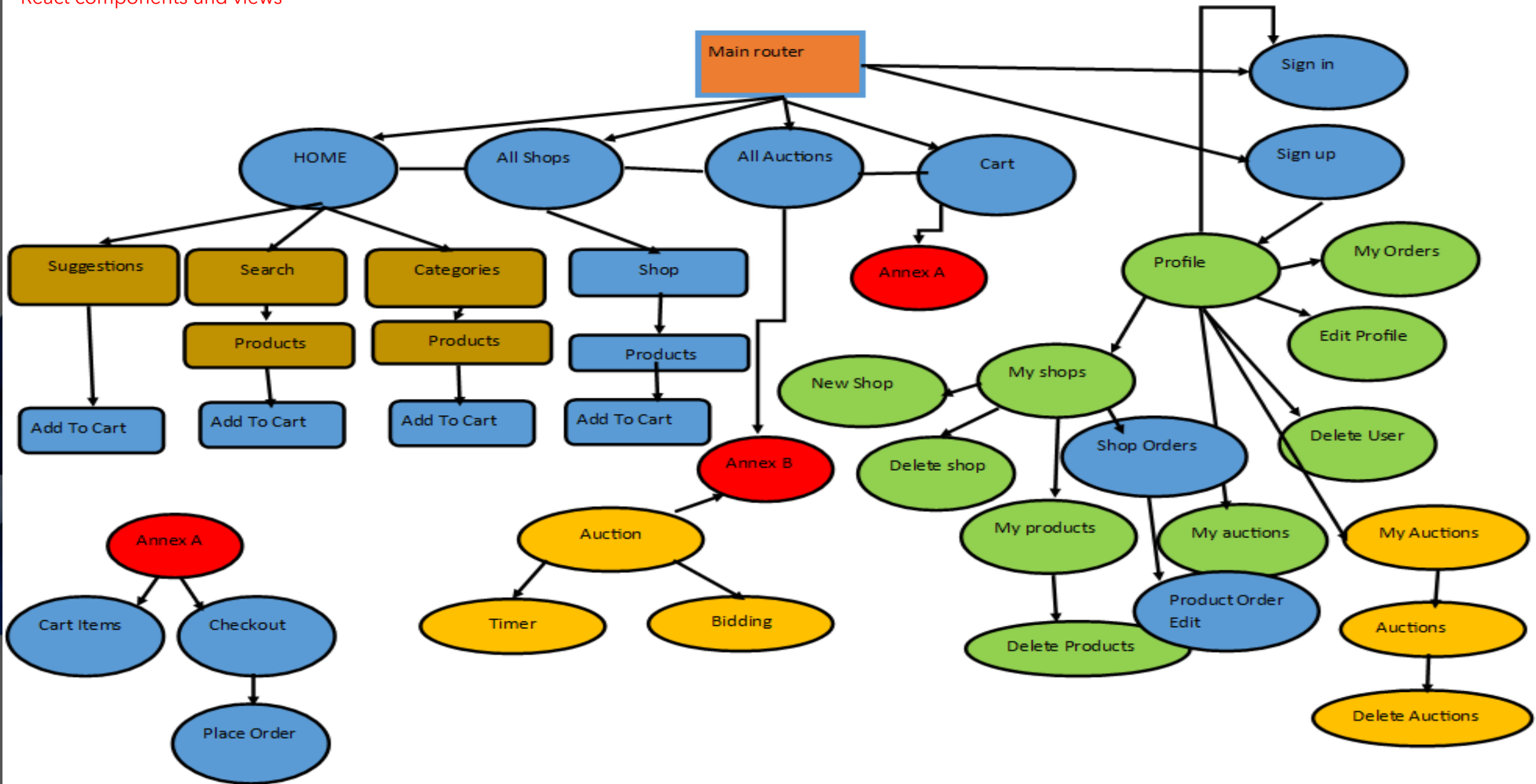
I am proud of what I have achieved, despite the result. As every challenge I was faced, was a new opportunity to learn and grow. When I realized the magnitude of the project, I did not panic and kept on going chipping away in small chunks as told, by Agustin.

When all seem lost and out of control, I was able to devise a workaround to either bypass or resolve the issue.

The best success story for me was one day at 3 am, when I realized that I was troubleshooting a broken feature on the wrong folder!! When I tested it on the correct one it was working, I actually fixed it and ran the **`npm run dev`** on the wrong VsCode, I could not stop laughing.



Front-end tree diagram  
React components and views



The background features a dark gray gradient with three flowing, translucent blue waves that overlap each other, creating a sense of movement and depth. The waves are rendered with soft gradients and subtle highlights, giving them a liquid, ethereal appearance.

DEMO

A solid, vibrant pink horizontal bar spans the width of the image, positioned below the word 'DEMO'. It has a uniform color and sharp edges, providing a strong visual contrast against the dark background.



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## The Future

I plan on finalizing this app by adding new features, these are a few that will make it in the next project:

- Facebook Login
- Google Login
- PayPal
- ~~Auction system~~ (Edit: I got this %\$@#\$ to work!)
- Creating phone App version as this is a browser version. (Edit: Already in progress.)
- Creating a centralized theme so to be able to make the app reusable to different customers & countries
- Also enabling a switch to translate to most used languages.
- Enabling an admin panel to manage currency which currently is hardcoded.



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## ANNEX - A

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### Dependencies:

@hot-loader/react-dom	Formidable
@material-ui/core	jsonwebtoken
@material-ui/icons	lodash
Compression	mongoose
cookie-parser	query-string
Cors	React
Express	React-dom
express-jwt	React-hot-loader
	React-router
	React-router-dom

Helmet  
React-stripe-elements  
Request  
Socket-io  
Socket.io-client  
stripe

### DevDependencies:

@babel/core  
@babel/preset-env  
@babel/preset-react  
Babel-loader  
File-loader  
Nodemon  
Webpack  
Webpack-cli  
Webpack-dev-middleware  
Webpack-hot-middleware  
Webpack-node-externals



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## ANNEX - B

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Coding:

<https://www.youtube.com/watch?v=zaWtlkJgah4&t=10210s>

<https://www.youtube.com/watch?v=w1oLdAPyuok>

<https://www.youtube.com/watch?v=2jqok-Wgell>

<https://www.youtube.com/watch?v=7Q17ubqLfam>

<https://www.youtube.com/watch?v=DPrhem174Ws>

<https://www.youtube.com/watch?v=996OiexHze0>

<https://www.youtube.com/watch?v=y0Yq1IPoloo&t=314s>

<https://www.youtube.com/watch?v=WTUYem2lxLA>

<https://www.youtube.com/watch?v=0skzNlckrvQ>

Coding (cont)

<https://www.youtube.com/watch?v=mBd-SMPp3kl&pjreload=101>

<https://www.youtube.com/watch?v=oEFPFc36weY>

<https://www.youtube.com/watch?v=mBd-SMPp3kl>

<https://www.udemy.com/course/react-the-complete-guide-incl-redux/learn/lecture/8091064#overview>

<https://www.udemy.com/course/react-nodejs-express-mongodb-the-mern-fullstack-guide/learn/lecture/16851138?start=0#overview>

<https://www.udemy.com/course/react-nodejs-express-mongodb-the-mern-fullstack-guide/learn/lecture/16851138?start=0#overview>

Motivational:

<https://www.youtube.com/watch?v=bQxqIKTO2Ck>

[https://www.youtube.com/watch?v=TFG650ql\\_C0&t=345s](https://www.youtube.com/watch?v=TFG650ql_C0&t=345s)

[https://www.youtube.com/watch?v=CR\\_o8pZNFIY&t=95s](https://www.youtube.com/watch?v=CR_o8pZNFIY&t=95s)

<https://www.youtube.com/watch?v=TBulGBCF9jc>

Relax time:

<https://www.youtube.com/watch?v=CfqQNjxrLSI>





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Q&A

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Your chance to throw at me anything you want!!

Disclaimer:

This project is as it is with no warranty whatsoever, by use or not, or part of the App. If your cat catches on fire and runs to the curtains, which then catches on fire and burns your house down, I will not be held liable in any such form for your loss. Please send me video!

Signed: Me.

Thank you!

*It was a great pleasure and an honor to meet you all  
and I wish you all the best success in your future endeavors!*

*Stay positive, Have courage, And remember there is no such thing as impossible!*

*We are the proof of this statement!*

*Thanks to the TA's and a special thanks to Agustin for his patience and  
understanding and great advice and teachings.*

*See you all some time, someplace!*

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