

Biweekly Report IV

Introduction Software Engineering

Group 9

Project Name:

MOLN – Event Platform

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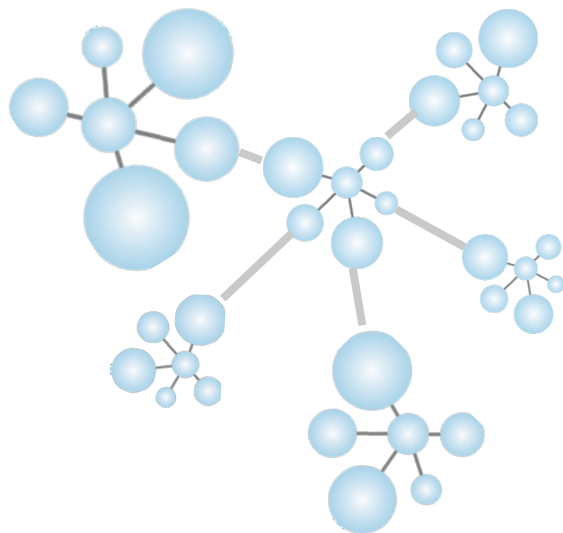


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General

'Implementation'

- We set a focus on creating a concept for our presentation.
- User testing

User Testing

At Switzerland 2019 we conducted a small user test to prepare for the usability testing with the ESE assistants and to figure out which areas of our website we need to adjust.

The user testing was done with different people all aged between 20 and 25. They were given a set of tasks (see below). We measured the time it took them to execute the tasks. We helped them as little as needed, which led to a cleaner result.

Scenario:

Task 1: forgot password (just enter the given email, I will tell you your password)

Task 2: login with your new password

Task 3: change one field of your profile (e.g. name)

Task 4: add a product (under userTesting / userTestingProducts)

Task 5: change the description of your product

Task 6: verify your newly created product as admin

Task 7: delete a random user, that is not an admin

Task 8: add a new subcategory under userTesting

Task 9: browse through the page to find your product (category: userTesting, subCategory: userTestingProducts)

Task 10: delete your product, that you created earlier (as a user not as the admin)

Task 11: Log out

Results

MOLN user testing												Total time in sec	Notes
Time used for the different tasks													
Nr	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Task 8	Task 9	Task 10	Task 11		
1	14.17	2.37	19.53	72.07	22.14	20.39	47.24	25.24	40.06	22.17	2.15	287.53	
2	22.3	9.8	23.68	92.16	33.64	40.23	44.82	54.35	39.6	9.48	1.8	371.86	
3	60	1.82	34.87	71.88	42.64	25.67	42.27	39.03	50.66	22.2	3.42	394.46	
4	28.37	2.3	38.98	60.4	37.33	30.98	45.77	22.04	45.64	15.18	1.5	328.49	
5	33.45	4.8	30.71	80.51	30.64	23.23	35.83	40.65	60.34	17.46	2	359.62	
6	15.42	2.8	25.13	100.68	30.18	42.58	39.32	37.16	44.69	20.2	1.68	359.84	
7	10.57	1.3	18.71	65.17	20.68	24.18	45.1	29.58	35.18	15.9	1.9	268.27	

Takeaways

- The website is generally easy to operate (most of the task were executed flawlessly)
- The admin panel and profile page still need some improvements
 - The users do not understand that there is a swipe function on the admin panel when deleting a user
 - Add a add-product button in profile
 - Proper characterization of an admin user
- The testing also showed us, what we need to change for the usability testing this Wednesday.
 - Extend scenario to include registration

- Help even less to find out whether they can operate through all tasks by themselves.

Conclusion

Overall the testing gave some interesting insight into the acceptance of our website and also showed us where we have to invest more time and resources.

New work distribution

As the backend is nearly complete in its functionality, the backend team (Noah, Manuel) started working on the frontend too.

Major Challenges

Solved

- How to show the iOS, Android and Desktop version of our application in the demonstration
- Decided who is going to present (Olivier, Adrian, Manuel, Noah, Lorenz)

Pending

- Being able to show the time and effort we invested in our software in a 10-minute presentation.
- Determine whether our presentation concept works on the beamer.

Frontend

Implementation (Status on 25. November)

Week 1:

- Add add-categories to the admin panel
- Edit product on your profile
- Bug-fixing and styling

Week 2:

- Add revise function to manage offer page in the admin panel
- Styled the carousel on the frontpage
- Add google maps to the add product page
- Filter products on the product page
- Add icons to the subcategories
- Reorganized categories and subcategories
- Start to implement notification system
- User testing at Switzerland (see attachment)

Major Challenges

Solved

- Making our application look nice on iOS
- Adding google maps
- Creating a more abstract component of a profile to use it for both profile and product editing as well
- Unsubscribe from rxjs subjects to prohibit endless backend requests

- Learning about testing frameworks

Pending

- Writing the documentation/ commenting project
- Code refactoring
- Adding products to our website (diligent work)
- Frontend testing using Yasmine and Karma

Learning Outcome

We learned:

- How to use the Google Maps API
- How to use Google Chrome Debugger/Console more efficient
- How to design user testing scenarios
- How to Unsubscribe from rxjs
- How to get access to shadow routes
- How to use behaviour-driven tests for frontend
- How using tests can be very helpful while adding new features because bugs will easily be detected

Backend

Implementation (Status on 25. November)

Week 1:

We ran into a problem with the file system we've implemented so far. Our hosting provider frequently deletes all newly created files on the server. That means if you upload a product/category/user picture, it won't be accessible anymore after a few hours. To fix this, we had to come up with a new system to save our files. At first, we tried implementing google drive support using Google's API. This got way too complex and unhandy for our situation. So we finally looked for another hosting provider, where we implemented the file system using PHP. Now, if you upload anything to the backend, an HTTP request to the file storage service will be made, where the file gets stored.

Week 2:

Support for creating and handling orders was added to the backend functionality. If a user places an order, the seller can decide whether he wants to accept or deny the order request. Also, a lot of minor adjustments and bug fixes had to be made. We implemented the notification system on the backend. This system will be used to notify sellers about their product status and potential customers. Most important tests for notification system, user, product and categories have been implemented.

Major Challenges

Solved

- Coming up with a new file storage service
- Making sure all files get deleted as soon as they're not needed anymore
- Preserving transparency with png uploads

Pending

- Fixing the email templates so they get displayed correctly in all email clients
- Testing reviews, orders and admin functionality on backend

Learning Outcome

We learned:

- How to handle HTTP requests using PHP
- How to compress/manipulate images using PHP
- Better understanding of the multer module for uploading files
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