

Documentation for testing

Summary

1. Validation
2. Responsiveness
3. Usability
4. Portability
5. Data consistency
6. Performance
7. Scalability
8. Security
9. Unit tests
10. Integration tests

Validation

- Validate html
- Validate css

Responsiveness

- Preview application on different screen sizes:
 - 1920 x 1080
 - 1600 x 900
 - 1024 x 768
 - 960 x 640
 - 480 x 320
- Make sure that key features are available on every resolution
 - login
 - sign up
 - form editing: add field, delete field, move
 - answers preview



Usability

- Common design solutions are used
- Every functionality is within user reach
- With or without keyboard (mobile / desktop)

Portability

- Test the application in different browsers

- Chrome
- Mozilla Firefox
- Safari
- Native browsers on mobiles



Data consistency

- Data that arrives in backend is exactly the same as the date sent from frontend
- Database don't change without reason
- Downloading a form and then uploading it
- Database constraints

Performance

- Time it takes to login
- Time it takes to add a form in the database
- Time it takes to receive a form from database
- Time it takes to show all answers + statistics

Scalability

- 2, 5 and 10 users edit forms at the same time
- 2, 5 and 10 users upload an local form
- 5 and 10 users respond to an form

Security

- Parse the username, password for illegal characters
- Database cannot be accessed from outside
- No SQL injection

Unit tests

- For every class: test the (input, output) pair of every method
- Code review
 - Redundant attributes
 - Redundant code

Integration tests

- Test the interaction between objects of each class
- Make sure the multiplicity between classes is right
- Lifetime of an object is limited to its functionality

