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### **Goal**

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Design the final version of your image sharing app, building upon the improved image uploader (HW 8) and adding more meaningful features and functionality.

In addition to the functionality of HW 8, your final project should include **at least** the following features:

- verification of whether a username is available or not (using AJAX);  
and
- admin functionality to perform restricted actions

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### **Procedure**

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#### ***Milestone 5: add unique features***

1. **Implement another piece of functionality that allows a user to sign up and verifies whether a username is available or not (using AJAX).** See examples 26.5 and 26.6 in the textbook.
2. **Implement admin functionality to perform (at least one) restricted action (s)** (e.g., remove users, delete objectionable posts, etc.)
3. (OPTIONAL) Integrate your project with well-know sites by using their publicly available APIs.
4. It's time to **polish your project**, give it a unique flavor, and make it stand out.  
You may want to focus on improved back-end functionality, additional options/features, and/or "branding".  
At this point you might also want to borrow ideas from the "Robin's Nest" example from the textbook and turn the app into a "mini social network" (with concepts such as: followers, friends, private and public messages, etc.).  
**The sky is the limit!**
5. Integrate the latest code with previous milestone(s).

#### ***Milestone 6: prepare the final app***

6. **Integrate everything!**
7. **Test your app (extensively)** on the server.
8. Once you've reached a point where your app is complete and fully functional in the browser of your choice (Chrome, Firefox, Opera, or Safari), **prepare the final package** (single zip, all that is needed, and nothing else).
9. **Submit the final package** via Blackboard.

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### **Documentation**

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- A **detailed report** (5+ pages) describing the entire process, including: the learning curve (for PHP and MySQL, especially), the design process, coding troubles, functionality highlights, future improvements, etc.

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### **Minimum requirements:**

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- Your app must be **your own work**. If you use a site, textbook example or any other source as “inspiration” along the way, please make a note of it in your report.
- You must host your project, **live**, on <http://lamp.cse.fau.edu>
- Your front-end should be based on a CSS framework (e.g., **Bootstrap**)
- Your solution must be **mobile-ready**
- Your solution must include **sign up and log in** functionality
- Your design should demonstrate **separation** between presentation (CSS), content (HTML5), and interactivity (JavaScript) on the client side
- You should use JavaScript for form validation on the client side **before** submitting the form for server-side processing
- Your **server-side scripts** should adhere to PHP best practices.
- Your app must be **fully functional**.

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### **Deliverables**

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- A **single zip file** containing **all** files (.html, .css, .js, .php, etc.) necessary to your project, including the **report** (see above), but nothing else. Please name it using your FAU / Blackboard username as a filename, e.g., jsmith85.zip.

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### **Grading criteria**

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These are very general guidelines:

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|---|-------------------|
| • Navigation, structure, and functionality:                 | 5 %               |
| • Correctness:  | 10 %              |
| • Originality and quality of code and inline documentation: | 5 %               |
| • Graphics and visual aspects:                              | 5 %               |
| • Proper use of PHP:  | 20 %              |
| • Proper use of JavaScript:                                 | 15 %              |
| • Proper AJAX:  | 10 %              |
| • Proper database design:                                   | 10 %              |
| • Report:   | 20 %              |
| • <b>Bonus points (additional functionality):</b>           | <b>up to 20 %</b> |

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### **Deadline and more...**

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- This project is due on **12/02/15, 11:59 PM EDT**
- You are expected to submit your files via Bb (see above).
- These guidelines may be updated. Please check your email and Blackboard often.