

CSEN 704/DMET 706, Advanced Computer/Media Lab
Winter 2019

Project; Deliverables

Deadline: 6/12/2019 at 11:59 PM

In this project, you're expected to deliver a fully-functional web platform/Mobile application that complies with the Twelve-Factor App methodology (<https://12factor.net>). The application is composed of both your developed web/mobile application, as well as any backing service(s) that the application relies on, and as described in your submitted and approved proposal. The objective of this project is to test your understanding of the Twelve-Factor App methodology.

Deliverables

You should deliver the following.

1. The link to a private Git repository containing all of the code you wrote/use and any documentation files.
2. A zip folder containing all of the code you wrote/use and any documentation files. Only .zip folders are allowed; other types will be considered as not submitted.
3. In case of deploying your project, the link to the live version of the deployment should be noted clearly in the main README file in your repo.

Notes

- You should bring at least a laptop with the whole project integrated and working on it.
- Every team member is required to understand and will be evaluated in all parts of the submission related to the project requirements and the course's objectives, and should have an overall understanding of how the app works, regardless of his/her knowledge of the technology used to implement the separate components of the app. Excuses like "I only worked on the interface" or "My specialty is to write JSON files only" won't be accepted.
- Your Git contribution will be checked, so make sure you contribute to critical parts of the project to get your full contribution grade.
- You'll be asked to clearly state the parts you worked on in the project, since this will affect the grade related to your contribution in the project.
- During the evaluations, expect to be asked about every single bit of code that you wrote. Any imported internal or external libraries/packages are considered a part of code that you write, so make sure to read their documentations very well because you might be asked technical questions about how they are used, not how they internally work.
- The evaluator is free to evaluate you with whatever way he/she finds appropriate, so expect either an oral evaluation, one or multiple 10-minute task(s), or both. Bring your laptop.
- Your grade in the milestone is calculated depending on:
 - The completion of your project and how much of the proposal requirements are met.
 - A factor that is multiplied by the project grade, which is reliant on your performance during the evaluation and the evaluator's impression about your contribution.
- MET is not the place for people whose sole purpose is to inspire others to code. Make sure you write code with **YOUR OWN HANDS**.

Marking Scheme

0. README		
File(s) exist(s)		2
File(s) is/are useful	Dependencies	2
	Config	2
	Docker	2
	Docker-Compose	2
1. I Codebase		
Private Git repository		5
Commits	Multiple	5
	Collaborators	5
	Timely	5
2. II Dependencies		
Manifest file exists		10
Manifest file is useful		10
3. III Config		
<u>Not hard-coded:</u> <ul style="list-style-type: none"> Environment variables used. Actual config file is not included in the repository/ignored (e.g. <code>.gitignore</code>). An example of the config file is provided. 		10
4. V Build, Run, Release		
Dockerfile(s) exist(s)		10
Dockerfile(s) work(s): <code>docker run</code>		10
5. V Backing Services: Minimum 2; A and B		A B
<code>docker-compose.yml</code> exists		5
<code>docker-compose.yml</code> defines a service/services for the main application(s)		5
<code>docker-compose.yml</code> defines a service for each of the backing services	2.5	2.5
<code>docker-compose.yml</code> works: <code>docker-compose up</code>		5
Bonus, at least one		
Deployment		5
Frontend		
All 12 Factors		
Total:		105

Submission

You're required to submit the following on <https://forms.gle/LeAVmmPaihQW9j1R7>

- A **Private Git Repo URL**, e.g.: <https://github.com/ramin0/acml>.
- A **.zip folder** containing your application's source code and resources. Make sure the code you wrote is actually included in the archive, because some of you mistakenly include unnecessary files (such as IDE specific files) instead of the actual code. **Only .zip archives will be accepted** as noted above.
- **Note:** Don't wait until the last second to submit your code, because the server will be overloaded and this might cause you to miss the deadline.